Test pla	an for BM	W Service	(development status)	1																	
	7.2-BN20	00																			
ECU type	Fault Code (hex)		IW Fault Code Description VS-Text	Fault description	DTC (Diagnostic Trouble Code)	DTC Description	Component	Subcomponent	Monitoring criteria	Fault debouncing	Terminal conditions Voltage conditions Temperature condit	ions Time conditions	System text	Signal information Calculated v	value Y/N Possible Fault Causes	Repair procedures (plant/service)	ML illumination/CC message/emergency program	Remarka	Customer perception comments	Breakdown Instruction	Service instruction
200 1996		()		Passi description	Die (Dignasie noors coor)	Die Description	Component	add on points	PWM signal used to control the throttle valve remains		Voltage condition:		Jyanan wax			repair procedures (prantise sca)	- ECE emissions warning	North Ra			
									above 80% for longer than 0.5 sec.		Onboard electrical system voltage between 9 V and 15					Use tester to activate throttle value and observe repositioning speed     Check wiring harness between DME and	lamp: on - ECE electronic engine				
											V Temperature condition: - None					footile valve	power reduction: on - CC message: on				
				The diagnostic function checks the throttle					Potential problem source(s): - Throtile valve moves stiffly, sticking, contaminated - Defect in wring hameas between throtile-valve achatek molor and DME		- None Time condition: - None Other conditions:				- Throttle valve moves stiffly, sticking, contaminated	Voual inspection of throttle valve and air- induction system for contamination     Move the throttle valve manually to determine whether it progresses throughout its entire travel range fixely without escess resistance Basine throttle valve escence mainteners	- US emissions warning lamp: on				
MEVD17.2-		10000		valve's control signal for excessively high figures that would indicate that the throttle valve	01570	Throttle Valve Position Control Throttle Stuck	Thurston Automation	Theoretica Princelo	Defect in wiring harness between throttle-valve setuptes and DME	This fault is logged in the control module's fault	- Active control signal to		STEUERN_DK, STEUERN_ENDE_DK,	×	contaminated - Defect in wring harness between throttle-valve actuator motor and DME Defects theriting with a solution protect	whether it progresses throughout its entire travel range freely without excess resistance Realises freely entire solution and the	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice: Ability to continue driving is restricted because	
BN2000	344710	inroti	Se valve, function: jammed permanently	is seizing.	r ruði	Permanently (Bank 1)	Throtile Actuator	Anna annan	throttle valve is deactivated when the PWM signal used to		Terminal 15 throttle valve - None	1 100.00	STATUS_DKP_VOLT	T	Defective throttle-valve actuator motor	Replace throttle-valve actuator motor	- CC message: on	100100	- Reduced power	engine speed is limited to roughly 1300 rpm.	100100
									control the throttle valve remains above 80% for longer than 5 sec.		Voltage condition: - Onboard electrical system					- Use tester to activate throttle valve and	- ECE emissions warning				
									longer than 5 sec. Potential problem source(x): - Throttle valve moves		voltage between 9 V and 16 V					Use tester to activate throttle valve and observe repositioning speed     Check wiring harness between DME and fmottle valve	lamp: on - ECE electronic engine power reduction: on - CC message: on				
									atiffy, sticking,		Temperature condition: - None						1 1				
				The diagnostic function monitors the throttle valve control signal for excessively high figures					contaminated - Defect in wiring harness between throttle-valve	This fault is logged in the	Time condition: - None Other conditions:		STEUERN_DK,		Throttle valve moves stiffly, sticking, contaminated     Defect in wring harness between throttle-valve	induction system for contamination - Move the throttle valve manually to determine whether it progresses throughout its entire travel	- US emissions warning lamp: on     - US electronic engine power			Breakdown notice:	
MEVD17.2- BN2000	0x2711	10001 The	notife valve, function: jammed briefly	valve control signal for excessively high figures that would indicate that the throttle valve is sticking or seizing.	P1638	Throttle Valve Position Control Throttle Stuck Temporarily (Bank 1)	Throttle Actuator	Throttle Stuck	between throttle-valve actuator motor and DME - Defective throttle-valve	control module's fault memory immediately.	Active control signal to     Terminal 15 throttle valve - None	- Norse	STEUERN_ENDE_DK, STATUS_DKP_VOLT	none Y	actuator motor and DME - Defective throttle-valve actuator motor	range freely without excess resistance - Replace throttle valve	reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced power	Ability to continue driving is restricted because engine speed is limited to roughly 1300 rpm.	none
									logged when the difference between the specified and the actual value is greater		Voltage condition:						- ECE emissions warning				
									than the characteristic curve over throttle-valve gradient		Choland electrical system     voltage between 9 V and 15					Check wiring harness between DME and throttle valve	Lamp: on - ECE electronic engine				
									(4% - 50% ).		V Temperature condition:					Use tester to activate throttle valve and observe its reaction	power reduction: on - CC message: on				
				The diagnostic function monitors the difference between specified and actual throttle-valve					Potential problem source(s): - Stiction in throttle valve - Defect in wiring harness		- None - None - None				- Stiction in throttle valve	Check throttle valve for contamination and foreign objects     Move throttle valve by hand, checking for	- US emissions warning lame: on				
MEVD17.2-				between specified and actual throttle-valve values. If this figure remains too high for a specified period, a fault is recognized and the handle values in densitiand.					Stiction in throttle valve     Defect in wiring harness     between throttle-valve     actuator motor and DME     Defective throttle-valve	This fault is logged in the control module's fault	None     Other conditions:     Active control signal to     Transient FF		STEUERN_DK, STEUERN_ENDE_DK, STATUS_DKP_VOLT		Defect in wiring harness between throttle-valve actuator motor and DME     Defective throttle-valve actuator motor	Observe its reaction     Observe its reaction     Observe through objects     Move throttle valve by hand, checking for     resistance to motion and noting how quickly it     closes when released     Benders throttle-output schedure motion	- US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice: Ability to continue driving is restricted because	
BN2000	0x2714	10004 Thro	otfe valve, function: aluggiah, too alow	throttle valve is desctivated.	PIIAA	Throtile tight (Bank: 1)	Throttle	Tight	Defective throttle-value     the calculated air mass     deviates too starkly from the     measured air mass.	memory immediately.		- Norm	STATUS_DKP_VOLT	none (Y	Defective throttle-valve actuator motor	Replace throttle-valve actuator motor	- CC message: on     - ECE emissions warning	none	- Reduced power	engine speed is limited to roughly 1300 rpm.	none
											Voltage condition: - Onboard electrical system voltage between 9 V and 16						ELE entations warring lamp: on     ECE electronic engine power reduction: on CC message: on				
									Potential problem source(s): - Collateral fault caused by		V Temperature condition: - None					- If other diagnostic fault codes related to					
									other components in the intake system, Valvetronic, turbocharger	This fault is longed in the	- None Time condition: - None				<ul> <li>Collateral fault caused by other components in the intake system, Valvetronic, turbocharger</li> </ul>	components in the induction tract, Valvetronic or turbocharger have been logged, then process these first (collateral faults)	US emissions warning lamp: off     US electronic engine power				
MEVD17.2- BN2000	0x2774	10100 Max	as air flow sensor, plausibility: Air mass compared with model too high	The diagnostic function compares the calculated air mass with the measured air mass.	PocéD	Mass or Volume Air Flow 'A' Circuit Range/Performance - Air Flow Too High	Masa Air Flow	Too High	Intake system leaking     HFM defective	This fault is logged in the control module's fault memory immediately.	Other conditions: Terminal 15 - Engine CN - None	- Norse	NO	none Y	- Intake system leaking - HFM defective	Check intake system for leaks     Replace HFM	reduction: off - CC message: none	none	Possible apparent symptoms: - nore	Breakdown notice: - none	- nane
									the calculated air mass deviates too starkly from the		Voltage condition:						- ECE emissions warning lamp: on				
									measured air mass. Potential problem source(s):		Onboard electrical system voltage between 9 V and 16 V						ECE electronic engine power reduction: on CC message: on				
									Collateral fault caused by offer components in the intake system, Valvetronic, barbocharger     - Intake system leaking Mill discription		v Temperature condition: - None Time condition:					- If other diagnostic fault codes related to components in the induction tract, Valvetronic or	- US emissions warning				
MEVD17.2-			ss air flow sensor, plausibility: Air mass	The diagnostic function compares the establish		Mass or Volume Air Flow 'A' Air Mass Too High			Intake system, Valvetronic, turbocharger - Intake system tootice	This fault is logged in the control module's fault	Time condition: - None Other conditions: Transient IF				Collateral fault caused by other components in the intake system, Valvetronic, turbocharger     - Intake system leaking	turbocharger have been logged, then process these first (collateral faults) - Check intake system for leaks	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
MEVD17.2- BN2000	0x2774	10100 Max	compared with model too high	The diagnostic function compares the calculated air mass with the measured air mass.	P115D	Mass or Volume Air Flow 'A' Air Mass Too High Compared to Model	Mass Air Flow	Comparison to Model	The fault is recognized when	memory immediately.	Hamman 15 Pulgine Gra	- None	NO	none Y	- Intake system leaking - HPM defective	- Check intake system for leaks - Replace HPM	reduction: off - CC message: none	none	Possible apparent symptoms: - none	Breakdown notice: - none	- none
									the indicated air mass does not correlate with the calculated mass airflow rate.		Voltage condition: - Onboard electrical system voltage between 9 V and 15										
									Returning and law assessed		v										
									Defective HFM, problem with airflow to HFM, clean air tube fallen off intake air noise attenuator		- 30°C < infakte-air fampenature < 120°C 30°C < costent										
									noise attenuator - Leak within induction tract		Temperature condition: - 30°C < initial-and temperature < 120°C - 30°C < condition temperature Tem condition: - None Chair condition:										
									<ul> <li>Leak within induction tract on engine-side of throttle valve (leaks in vicinity of intelex six neuron chamber</li> </ul>		- None Other conditions:				Delective HPM, problem with airflow to HPM, clean air tube fallen off intake air noise witerswire		. FCE agriculture of the				
									open of filer cap)		- Engine on     - Pressure drop at throttle     volve screads 15 hDs				attenuator - Leak within induction tract on engine side of throttle valve (leaks in vicinity of intake air		ECE emissions warning lamp: on     ECE electronic engine				
									affecting airflow (valve lift monitoring, position of VANOS, throttle valve, pressure sensors)		<ul> <li>745hPa &lt; barometric pressure</li> <li>500 rpm &lt; engine speed &lt;</li> </ul>				plenum chamber, open oil filler cap)	- Check wiring harness on HFM	power reduction: on - CC message: on				
									vww.c5, throttle valve, pressure sensors) - Compressor bypass valve		- 500 rpm < engine speed < 7000 rpm - 133 rpm < dynamic rpm - 30°C < ir#eke.sir				<ul> <li>Marchicson in components anecong arrow (valve lift monitoring, position of VANOS, throttle valve, pressure sensors)</li> <li>Compressor bypass valve stuck in open</li> </ul>	Check intake system for leaks on engine side of thredie valve     Seal on of filler cap is defective     Problem with airflow to HIM (air filter insert is	- US emissions warning lamp: off - US electronic engine power		Possible apparent symptoms:		
MEVD17.2-		Max	as air flow sensor, plausibility: Air mass	The diagnostic function compares the air mass calculated from the model with the measured air		Mass or Volume Air Flow 'A' Circuit			Compressor bypass valve stuck in open position (accompanied by low boost	This fault is logged in the control module's fault	7000 rpm - 133 rpm - dynamic rpm - 30°C < intaks-air supporae (pm window) - 7.7% < dynamic load 30°C < coolant				Compressor bypass valve stuck in open position (accompanied by low boost pressure maifunction)		reduction: off		Possible apparent symptoms: If the HFM is recognized as detective it is descrivated, following jerk during descrivation	Breakdown notice:	
BN2000	0x2775	10101	compared with model too low	mass.	POOBC	Range/Performance - Air Flow Too Low	Mass Ar Flow	Too Low	pressure mailunction) The taut is recognized when the indicated air mass does	memory immediately.	Voltage condition:	- None	NO	none Y	- Severely contaminated air filter	- Replace HFM	- CC message: none	none	owing to lambda error no limitations	- rone	none
									not correlate with the calculated mass airflow rate.		Onboard electrical system voltage between 9 V and 16 V										
									Potential problem source(s): - Defective HFM, problem		Temperature condition: - 30°C < intake-air										
									Defective HFM, problem     with airflow to HFM, clean air     tube fallen off intake air		Temperature condition: - 30°C < intrake-air temperature < 12°C 30°C < coolant										
									- Leak within induction tract		temperature Time condition:				- Defective HFM, problem with airflow to HFM,						
									on engine-side of throttle valve (leaks in vicinity of intake air plenum chamber,		- None Other conditions: - Engine on				clean air tube fallen off intake air noise attenuator		- ECE emissions warning				
									open oil filler cap) - Malfunction in components affecting willow /h W		- Pressure drop at throttle value exceeds 15 hPa - 7.495hPa - herroratin				<ul> <li>Leak within induction tract on engine side of throttle valve (beaks in vicinity of intake air plenum chamber, open of filer cap)</li> <li>Malfunction in components affecting airflow</li> </ul>		tamp: on - ECE electronic engine power reduction: on - CC message: on				
									Prases are peetum retarbet, open oil filter cap) - Maffunction in components affecting airflow (valve lift monitoring, position of VANOS, throtfle valve, pressure sensors) - Compession bypass valve shack in open position (arcommension the law boost		- Infyria zur dop all Bredda - Pressure dop all Bredda w Roseneds 13 Julya - 720-Jilo Julya - 720-Jilo Julya - 2001 ppm < engine apead < 2000 ppm <				<ul> <li>Malfunction in components affecting airflow (valve lift monitoring, position of VANOS.</li> </ul>	Check wiring harness on HFM     Check intake system for leaks on engine side					
				The demostic furning					pressure sensors) - Compressor bypass valve shuck	This fact in losses 1.	- 133 rpm < dynamic rpm - 30°C < intaka-air				<ul> <li>Instruction of components among an only of (salve if monitoring, position of VANDS, throtile valve, pressure sensors)</li> <li>Compressor bypass valve stuck in open neating (compressed by low low poor possystem)</li> </ul>	Check intake system for leaks on engine side of throttle valve     Seal on oil filer cap is defective     Problem with sides in HTM (sin filter insert is	US emissions warning lamp: off     US electronic envire mover		Possible apparent symptoms: If the HTM is recovering as detection it is		
MEVD17.2- BN2000	0x2775	10101 Max	as air flow sensor, plausibility: Air mass compared with model too low	The diagnostic function compares the air mass calculated from the model with the measured air mass.	P115C	Mass or Volume Air Flow 'X' Air Mass Too Low Compared to Model	Mass Air Flow	Comparison to Model	stuck in open position (accompanied by low boost pressure mailunction)	This fault is logged in the control module's fault memory immediately.	supporase (tpm window)         temperature < 120°C           - 7.7% < dynamic load	- Norse	NO	none Y	position (accompanied by low boost pressure mailunction) - Severely contaminated air filter	Problem with airflow to HFM (air filter insert is defective or installed incorrectly)     Replace HFM	US electronic engine power reduction: off CC message: none	none	If the HFM is recognized as defective it is deactivated, following jerk during deactivation owing to lambda error no limitations	Breakdown notice: - none	none
			and the			And a second sec	AUGU	generative as to both the	This tault is recognized when	,	Voltage condition:			<u> </u>	and an and a second sec		Imp: on ECE electronic engine		and the second s		
									the period duration of the HFM signal exceeds 640 ps.		Onboard electrical system voltage between 9 V and 16 V						- ECE electronic engine power reduction: on - CC message: on				
									Potential problem source(s): - Defect in wiring harness between HFM and DME		Temperature condition: - None Time condition:				- Defect in wiring harmess between HFM and	- Check wiring harmens between DME and mass-	- US emissions warning				
MEVD17.2-				The diagnostic function monitors the upper limit					between HFM and DME - Mass-airflow sensor defective	This fault is logged in the control module's fault	Time condition: - None Other conditions:			Read test data block;	DME - Mass-airflow sensor detective	airflow sensor - Replace mass-airflow sensor	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2776	10104 dun	ation, loose contact with low frequency	of the digital HI'M signal's period dutation.	P0103	Mass or Volume Air Flow Sensor 'A' Circuit High	Mass Air Flow Sensor	Electrical	Defective DME     the period duration of the	memory immediately.	none - Engine CN - None	- Norse	NO	ID SEAE N	- Defective DME	- Replace DME	<ul> <li>CC message: none</li> </ul>	none	Engine runs roughly	Nore	None
									HFM signal is less than 84 µm.		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
									Potential problem source(s): - Defect in wiring harness		V Temperature condition:						- US emissions warning				
				The diagnostic function monitors the lower limit					Defect in wiring harness between HFM and DME     Mass-siflow sensor	This fault is logged in the	None Time condition:     None				- Defect in wiring harmess between HFM and DME	- Check wiring harness between DME and mass- airflow sensor	lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x2779			The diagnostic function monitors the lower limit of the digital HFM signal's period duration.	P0102	Mass or Volume Air Flow Sensor 'X' Circuit Low	Mass Air Flow Sensor	Electrical	defective - Defective DME This tests is seemenical advect	control module's fault memory immediately.	Other conditions: - Engine CN - None	- None	NO	Read test data block; ID SEAE N	Mass-airliow sensor detective     Defective DME	Replace mass-airflow sensor     Replace DME	- CC message: none	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
									This fault is recognized when the period duration of the HFM signal is zero.		Voltage condition: - Onboard electrical system voltage between 9 V and 16						ECE electronic engine power reduction: on				
									Returning and law assessed		V Temperature conditions						- CC message: on				
									Defect in wiring harmess between HFM and DME     Mass-airflow sensor defective	This fact in losses 1.	- None Time condition: - None Other conditions:				Defect in wiring harmana between HFM and     DME     Mass-ainflow sensor defective	- Check wiring hamess between DME and mass	US emissions warning lamp: off     US alextensis ensure				
MEVD17.2- BN2000	0x277A	10105	nass sensor, signal: Short-circuit or line break (open circuit)	The diagnostic function determines whether a digital signal from the HFM is present.	P0100	Mass or Volume Air Row Sensor 'A' Circuit Mass or Volume Air Row 'A' Orcuit	Mass Air Flow Sensor	Electrical	Mass-airlow sensor defective     Defective DME	This fault is logged in the control module's fault memory immediately.	- None Other conditions: none - Engine ON - None	- Norm	NO	Read test data block; ID SEAE N	- Mass-airflow sensor defective - Defective DME	Check wiring harness between DME and mass- airflow sensor     Replace mass-airflow sensor     Replace DME	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
BN2000	0x277B	10107			PocéD	Range/Performance - Air Flow Too High	Mass Ar Row	Too High													
BN2000	0x277B	10107			P0103	Mass or Volume Air Flow Sensor 'X' Circuit High Mass or Volume Air Flow 'X' Circuit Brance Barlamente, Air Bar, Tan Lure	Mass Air Flow Sensor	Electrical					1						-		
BN2000 MEVD17.2- BN2000	0x277C	10105		<u> </u>	P008C P0102	Range/Performance - Air Flow Too Low Mass or Volume Air Flow Sensor 'X' Circuit Low	Mass Air Flow Mass Air Flow Sensor	Too Low Electrical								1			<u>+</u> +		
									the voltage at senaor 1 rises above 4.085 V.		Voltage condition: - Onboard electrical system						lamp: off - ECE electronic engine power reduction: off				
											Onboard electrical system voltage between 9 V and 16 V Temperature conditors						power reduction: off - CC message: on				
									between DME and accelerator pedal module		- None Time condition						- US emissions warning lamp: on		Possible apparent symptoms: - Limit on pedal value variation and on maximum absolute value (34.5% pedal) - In combination with fault in accelerator pedal sensor 2 or clocking error, increased ids speed sensor 2 or clocking error, increased ids speed	Breakdown notice:	
MEVD17.2-			celerator pedal module, pedal sensor 1,	The diagnostic function monitors the voltage of		Throttle/Pedal Position Sensor/Switch D' Circuit			Potential problem source(s): - Defect in wiring harmass between DME and accelerator pedal module sensor 1 - Accelerator pedal module chercher	This fault is logged in the control module's fault	- None Other conditions:	-	Accelerator pedal sensor 1	Accelerator pedal sensor 1	Defect in wiring hamess between DME and accelerator pedal module sensor 1 forminates pedal module sensor 1	Check wiring harness between DME and accelerator pedal     Review percenter pedal	Lamp: on - US electronic engine power reduction: on CC memory on		In combination with fault in accelerator pedal sensor 2 or clocking error, increased idle speed	Breakdown notice: - It is possible to continue driving the vehicle, but passing meneuver: should not be attempted which the schedule in the schedule action.	
BN2000	542/04	10801	electrical: Short circuit to B+	sensor 1.	P2123	High	Pedal Position Sensor	o Lectros	the voltage at sensor 1 is less than 0.555 V.		- NONE PROFESSION			voltage (0x5546) N	Accelerator pedal module defective	Replace accelerator pedal	- CC message: on     - ECE emissions warning	11/18	and no processing of accelerator pedal	owing to the reduction in engine output.	mani
											Voltage condition: - Onboard electrical system voltage between 9 V and 16						ECE emissions warring lamp: off     ECE electronic engine power reduction: off     CC message: on				
									Potential problem source(s): - Defect in wiring harmess between DME and provide problem								power reduction: off - CC message: on				
									scolerator pedal module sensor 1 - Voltage supply for		Temperature condition: - None Time condition:				- Defect in wiring harness between DME and accelerator pedal module sensor 1	Check wiring harness between DME and accelerator pedal     Check voltage supply at accelerator pedal	- US emissions warning lamp: on		Possible apparent symptoms: - Limit on pedal value variation and on maximum absolute value (34.5% pedal)	Breakdown notice:	
MEVD17.2- BN2000		Acc	celerator pedal module, pedal sensor 1, electrical. Short circuit to earth or line	The diagnostic function monitors the voltage of		Throttle/Pedal Position Sensor/Switch D' Circuit			accelerator pedal module in the DME is detective	This fault is logged in the control module's fault	- None Other conditions:	-	Accelerator pedal sensor 1	Accelerator pedal sensor 1	<ul> <li>Voltage supply for accelerator pedal module in the DME is defective</li> </ul>	module sensor 1 for 5 V - Replace accelerator pedal	- US electronic engine power reduction: on		<ul> <li>In combination with fault in accelerator pedal sensor 2 or clocking error, increased idle speed</li> </ul>	<ul> <li>It is possible to continue driving the vehicle, but passing maneuvers should not be attempted</li> </ul>	
BN2000	JR2/DA	roandiz	disconnection	sensor 1.	P2122	Low	Pedal Position Sensor	D Dectros	Accelerator pedal module the voltage at sensor 2 rises above 2.043 V.	concourty immediately.	Terminal 15 - none - None - None Voltage condition: - Onboard electrical system	- mod		voltage (0x5846) N	Accelerator pedal module defective	- Replace DME	- CC massage: on     lamp: of     - ECE electronic engine	none	and no processing of accelerator pedal	owing to the reduction in engine output.	none
									Potential problem source(s):		voltage between 9 V and 15 V						ECE electronic engine power reduction: off CC message: on				
									Defect in wiring harness		Temperature condition: - None					- Check wiring harness between DME and	118 and a loss of the loss		Possible apparent symptoms: - Limit on pedal value variation and on motivarn absolute value (34.5% pedal) - In combination with fault in accelerator padal sensor 1 or clocking error, increased ide speed and or combine and intervention and ideal		
MEVD17.2-		Padel	module, pedal sensor 2, electrical: Short	The diagnostic function monitors the voltage of		Throttle/Pedal Position Sensor/Switch Tr Circuit			accelerator pedal module sensor 2 - Accelerator pedal module	This fault is logged in the control module's fault	I temperature consister - None Time condition: - None Other conditions:		Accelerator pedal sensor 2	Accelerator pedal sensor 2	Defect in wiring hameas between DME and accelerator pedal module sensor 2	Check wiring harness between DME and accelerator pedal     Check voltage supply at accelerator pedal module sensor 2 for 5 V	- US electronic engine power reduction: on		maximum accolute value (34.5% pedal) - In combination with fault in accelerator pedal sensor 1 or clocking error, increased idle speer	Breakdown notice: - It is possible to continue driving the vehicle, but passing moreovers should not be attempted	
	0x2708	10203	circuit to 5+	sensor 2.	P2128	High	Pedal Position Sensor	E Electrical		memory immediately.	Terminal 15 I- none I- None	- Norm	lvotage	voltage (0x5847) N	Accelerator pedal module defective	Replace accelerator padal	- CC message: on	0006	and no processing of accelerator pedal data	owing to the reduction in engine output.	0006
									the voltage at sensor 2 is less than 0.430 V.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V						lamp: off - ECE electronic engine power reduction: off - CC message: on				
									Potential problem source(s): - Defect in wiring harness between DME and		V Temperature condition: - None					- Check wiring harness between DME and	- US emissions warning		Possible apparent symptoms: - Limit on pedal value variation and on		
1.									accelerator pedal module sensor 2	This fault is logged in the	None Time condition:     None				Detect in wiring harmess between DME and accelerator pedal module sensor 2	accelerator pedal - Check vohage supply at accelerator pedal	lamp: on - US electronic engine power		Limit on pedal value variation and on maximum absolute value (34.5% pedal)     In combination with fault in accelerator pedal	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVD17.2- BN2000	0x27DC	10204 Pedal	I module, pedal sensor 2, electrical: Short circuit to earth or line disconnection	The diagnostic function monitors the voltage of sensor 2.	P2127	Throttie/Pedal Position Sensor/Switch & Circuit Low	Pedal Position Senaor	E Electrical	- Accelerator pedal module defective	control module's fault memory immediately.	Other conditions:	- Norse	Accelerator pedal senaor 2 voltage	Accelerator pedal sensor 2 voltage (0x5847) N	Accelerator pedal module detective     Defective DME	module sensor 2 for 5 V - Replace accelerator pedal	reduction: on - CC message: on	none	sensor 1 or clocking error, increased idle speed and no processing of accelerator pedal data	but passing maneuvers should not be attempted owing to the reduction in engine output.	nore
											Voltage condition: - Onbeard electrical system voltage between 9 V and 16						lamp: off - ECE electronic engine power reduction: off - CC message: on				
									The response to the fault is		× .						- CC message: on				
									The response to the fault is apacified for a different fault entry.		Temperature condition: • None Time condition: • None		Accelerator pedal sensor 1 voltage				- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms: Depending on fault source (L4: 10201, 10202,	Breakdown notice: Depending on fault source (L4: 10201, 10202,	
MEVD17.2- BN2000	0x27E4	Accell 10212	ierator-pedal module, pedal-travel sensor Multiple fault	Collective fault: Accelerator pedal module's pedal-travel sensor.					Potential problem source(s): - None	immediately	- None Other conditions: Terminal 15 - none - None	- Norse	Accelerator pedal senaor 2 voltage	none Y	- None	- None	- US excitoric engine power     reduction: on     - CC message: on	none	Depending on fault source (L4: 10201, 10202, 10203, 10204, 10216; L6: 0x103001, 0x103002, 0x103101, 0x103102, 0x103308)	Depending on fault source (L4: 10201, 10202, 10203, 10204, 10216; L6: 0x103001, 0x103002, 0x103101, 0x103102, 0x103308)	none
									This fault is detected when the voltage differential		Voltage condition: - Orboard electrical system						lamp: off - ECE electronic engine				
									between sensor 1 and sensor 2 exceeds a specific defined		voltage between 9 V and 15 V Termenature condition						power reduction: off - CC message: on		Possible apparent symptoms:		
1									value. Potential problem source(x):		Temperature condition: - None Time condition: - None Other conditions:		Accelerator pedal senacr 1	Pedal data sensor 1 voltage		- Check wiring and plup connections	- US emissions warning lamp: on		Possible apparent symptoms: - Limit on pedal value variation and on maximum absolute value (34.5% pedal) - In combination with fault in accelerator pedal	Breakdown notice:	
MEVD17.2-		plausibi	rator pedal module, pedal position sensor, sility: synchronisation error between signal	The diagnostic function monitors the mutual		Throttle/Pedal Position Sensor/Switch D' / E'			Potential problem source(x): - Defective wining harmess - Accelerator pedal module defective	This fault is logged in the control module's fault	- None Other conditions:		Accelerator pedal sensor 1 voltage Accelerator pedal sensor 2	(Dx5846); Pedal data sensor 2 voltage	- Defective wiring harness	Check wining and plug connections     Check voltage supply to accelerator pedal for     5 V	- US electronic engine power reduction: on		sensor 1 and/or 2, increased idle speed and no	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	
BN2000	0x27E8	10216	1 and Signal 2	deviation between the two sensor voltages.	P2138	Voltage Constation	Pedal Position Senaor	D/E Correlation	the intake-manifold pressure	memory immediately.	Terminal 15 - none - None	- Norse	voltage	(0x5847) N	Accelerator pedal module defective	Replace accelerator pedal module	- CC message: on	none	processing of accelerator pedal data	owing to the reduction in engine output.	nore
									sensor deviates from the average for the pressure sensors (barometric		Voltage condition:						- ECE emissions warning lame: on				
									average for the pressure sensors (barometric pressure, boost pressure, intake-manifold pressure) by more than 70 mbar.		Voltage condition: - Onboard electrical system voltage between 9 V and 16						ECE emissions warning lamp: on     ECE electronic engine     power reduction: on     CC message: on				
				During the shutdown phase the diagnosis					more than 70 mbar. Potential problem source(x):												
				function monitors the DME to determine whether the ambient-air, intake-manifold and boost-					Defective wiring harness     Sensor has been tempered	This fault is logged in the	Temperature condition: - None Time condition: - 5 sec. after engine off				- Defective wiring herness		- US emissions warning lamp: off - US electronic engine power				
MEVD17.2-	0x280E	Abs: 10254 plausi	olute pressure sensor, intake manifold, ibility: Intake-manifold pressure too high	pressure sensors are measuring the same pressure.	P1250	Manifold Absolute Pressure Too High	Manifold Absolute Pressure Sensor	Passare	with - Sensor defective	control module's fault memory immediately.	Other conditions: none - Studiown phase - None	- 5 sec. after engine of	NO	none Y	Sensor has been tampered with     Sensor defective	Check wiring hamess at sensor     Replace sensor	reduction: of - CC message: none	none	Possible apparent symptoms: Best case scenario: None	Breakdown notice: - trans	none
BN2000	- ocasee																				

				the intake-m sance dw average for	anifold pressure lates from the the pressure						- ECE emissions warning				
				a manare pranaura, b. habaka-mandh marow du	anifold pressure lates from the the pressure (barometric cost pressure, old pressure) by an 70 mbar.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V				- ECE electronic engine power reduction: on - ECE message: on				
		During the ahvadown phase the diagnosis function monitors the DMM to determine whether the ambient-air, intake-manifold and boost- Absolute pressure sensors or measuring the same		Potential pro - Defective v - Sensor has	blem source(s): wiring hameas	fault is logged in the introl module's fault	Temperature condition: - None Thme condition: - 5 sec. after engine off			Defective winny harness     - Sensor has been tamposed with     - Check winny harness at sensor	US emissions warning lamp: off     US electoric engine power reduction: off				
MEVD17.2- BN2000	0x280E 11	Abaobis pressure sensor, intake manifold, pressure sensor are resouring the serve 254 plausibility: Intake-manifold pressure too high pressure	Manifold Absolute Pressure Sensor X P12A5 Afternanning Diagnosis Pressure Too High	N Manifold Absolute Pressure Sensor Attenuining - Sensor The fault is n	ecognized when	ntrol module's fault emory immediately.	Other conditions: none - Shutdown phase - None Voltage condition:	-5 sec. after engine off NO	nane Y	Senacr has been tampered with     - Check witing harmeas at senacr     - Senacr defactive     - Replace senacr	CC message: none lamp: on	none	Possible apparent symptoms: Best case scenario: Norse	Breakdown notice: - none	none
				Potential pro	f the barometric- ensor > 4.5 V. blem source(s):		- Onboard electrical system voltage between 9 V and 95 V Temperature condition:			- Chack ale-induction system (wastegate, etc. - Chack ale-induction tract between turbochae	- ECE electronic engine power reduction: on - CC message: on er				
MEVD17.2-		Absolute pressure sensor, intele manifold, The diagnostic function monitors the DME's			E fault, because pressure sensor the DME ECU; This fo plage above cont	fault is logged in the introl module's fault	- None Time condition: - 5 sec. after engine off Other and firm			and intake-air planum - internal DME fault, because barometric- pressure sensor in located in the DME ECU; - Boothynessure sensor Because DME in the DME ECU; - Boothynessure sensor	- US emissions warning at- Lamp: off - US electronic engine power reduction: off			Breakdown notice:	
BN2000	0x280F 1	Pauchairy instance weeks ; instance weeks ; instance weeks ;     plaubility: instance weeks ; instance weeks ;     plaubility:	P1225 Manifold Absolute Pressure Too Low		experience of the barometric- ensor > 4.5 V.	emory immediately.	rone - Shutkon phase - None - Shutkon phase - None Voltage condition - Onbeard staticitical system rollage between 9 V and 15	- 5 sec. after engine off NO	none Y	Pressure and the location the RME COL:     pressure service in located in the RME COL:     service voltage above threshold;     - Replace DME	- CC message: none lamp: on - ECE electoric engine power reduction: on	none	Possible apparent symptoma: Best case scenario: None	- 1006	none
					eraor > 4.5 V. blem source(s): E fault, because		voltage between 9 V and 15 V Temperature condition: - None			Check air-induction system (seategets, sic Check air-induction test between turbodney and biblie-air plenum	power reduction: on     - CC message: on er - US emissions warning				
MEVD17.2-		Absolute pressure sensor, intake manifold, The diagnostic function monitors the DME's	Manifold Absolute Pressure Sensor W	baromátic- ta localad in N	the DME ECU; This for shape above cont	fault is logged in the introl module's fault	Time condition: -5 sec. after engine off Other conditions:			- Internal DME fault, because berometric- pressure sensor is located in the DME ECU;     - Cost wring harmas between DME and bo	et- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x280F 1	225 eduarbility: Intele-mentald pressure too low barconetic pressure sensor.	P12A4 Alternation Diagnosis Pressure Too Low	fis voltage	ashold: mem of the intake- essure sensor ds 4.5 V.	emory immediately.	none - Shutdown phase - None Voltage condition: - Onboard electrical system	- 5 sec, after engine off NO	none Y	antraor volkaga akova threathold: - Replaca DME	- CC message: none     - ECE emissions warning     lamp: on     - ECE electronic engine	none	Best case scenario: None	- 1008	Date
							voltage between 9 V and 15 V Temperature condition:				- CC message: on				
MEVD17.2-		Absolute pressure sensor, intake pipe, electrical: The diagnostic function monitors the intake-	Manifold Absolute Pressure/Barometric Press	for averated of the second of	earn source(s); wing harness ME and intake- assure sensor isloid pressure This fo defective conti defective conti	fault is logged in the introl module's fault	- None Time condition: - None Other conditions:		Read test data block; ID 4488 (BN2020), 5488	Deluct in wing harness between DME and Inside-reartified pressure sensor Inside-reartified pressure sensor defective Inside-reartified pressure sensor defective Inside-reartified pressure sensor defective     Inside-reartified pressure sensor defective	- US emissions warning ld lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x251A 11	Short circuit to B+     manifold pressure sensor's upper voltage limit.	P0108 Sensor Circuit High		tive DME men of the intake- essure sensor ds 4.5 V.	errory immediately.	Terminal 15 - none None Voltage condition: - Onboard electrical system	- None NO	(BN2000) N	- Defective DME - Replace DME		000	Engine runs roughly	None	Note
				Potential pro	blem source(s): wiring harness VE and intake-		- Unicent's electrical system voltage between 9 V and 16 V V Temperature condition: - None				ECE emissions warning lamp: on     ECE electronic engine power reduction: on     CC message: on				
MEVD17.2-		Absolute pressure sensor, intake pipe, electrical: The diagnostic function monitors the intake-	Manifold Absolute Pressure Sensor Circuit I	manifold pr - Intake-mar	essure sensor	tault is logged in the introl module's fault	- None Time condition: - None Other conditions:		Read test data block; ID 4488 (BN2020), 5488	Defect in wiring harness between DME and Intel-arrantid pressure sensor     the sensor defective     - Replace intel-arrantid pressure sensor defective     - Replace intel-arrantid pressure sensor defective	- US emissions warning Id lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x281A 11		P119A (Bank 1)	- Defer	of the intake- saure sensor is	emory immediately.	Terminal 15 - none - None Voltage condition:	- None NO	(BN2000) N	- Defective DME - Replace DME	- CC message: none     - ECE emissions warning     lamp: on     - ECE electronic engine	none	Engine runs roughly	Nora	None
					an 0.2 V. blem source(s): airing harness		Onboard electrical system voltage between 9 V and 16 V Temperature condition:				ECE electronic engine power reduction: on CC message: on				
MEVD17.2-		Absolute pressure sensor, intake pipe, electrical: The diagnostic function monitors the intake-		tationer 0 northight	blem source(s): wing harness ME and Intake- essure sensor midd pressure This for defective cont	fault is logged in the	- None Time condition: - None Other conditions:		Read test data block; ID 4488 (BN2020), 5488	Defect in wining harmass between DME and     index-manifold pressure sensor     instake-manifold pressure sensor defective     Replace instake-manifold pressure sensor defective	id - US emissions warning largo: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2818 1	Absolute pressure sensor; intake pps, discrinizit The diagnostic function monitors the intake- 267 Short circuit to earth manifold pressure sensor's lower voltage limit.	Manifold Absolute Pressure Barometric Press Potcor Sensor Circuit Low	Manifold Absolute Pressure Sensor Electrical - Deter the voltage	directive cont tive DME men of the intake-	ntrol module's fault emory immediately.	Terminal 15 - none - None	- None NO	(BN2000) N	Intale-method pressure sensor defective     Preptice indust-manifold pressure sensor     Ordercive DME     Reptice DME     Reptice DME	- CC massage: none     - ECE emissions warning     lamp: on     - ECE electoric engine	note	Possible apparent symptoms: Engine runa roughly	Ensidown notics: None	None
				Potential pro	ssure sensor is an 0.2 V. blem source(s): wiring harness		Voltage condition: - Onboard electrical system voltage between 9 V and 10 V Temperature condition				ECE electronic engine power reduction: on - CC message: on				
MEVD17.2-		Absolute pressure sensor, intake pipe, electrical: The diagnostic function monitors the intake-	Manifold Abardula Pressoure Server Circuit	between D manifold pro - Intaken	ME and Intake- essure sensor mitold pressure This fo	fault is logged in the	i integratura condition: - None Time condition: - None Other conditions:		Read text data block;	Defect in wining harness between DME and     Poliek wining harness between intake-manife     halow-manifed pressure sensor     retain-manifed pressure sensor     retain-manifed pressure sensor	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x281B 1	Absolute pressure sensor, intake pipe, electrical: The diagnostic function monitors the intake- manifold pressure sensor's lower voltage limit.	Manifold Absolute Pressaure Senor Circuit L P1158 (Bank 1)	n Low Sama	defective cont tive DME men	ntrol module's fault emory immediately.	Terminal 15 - none - None Voltage condition: - Onboard electrical system	- None NO	(D 4AB8 (BN2020), 5AB8 (BN2000) N	Intake-manifold pressure sensor defective     Peptice intake-manifold pressure sensor     Othercive DME     Replace DME     Replace DME	eduction: off - CC message: none lamp: on - ECE electronic engine	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
				The fault is n the fault is	ecognized when etric pressure rai votage falts w 4.5 V.		- Cinboard electrical system     voltage between 9 V and 16     V     Temperature condition:     bine:				ECE electronic engine power reduction: on CC message: on				
MEVD17.2-		Ambient pressure sensor, electrical: Short to B+ The diagnostic function monitors the DME's		Potential pro	blem source(s): cont	fault is logged in the introl module's fault	Temperature condition: - None Time condition: - None Other conditions:			- Clear the ECU tault memory, if the diagnost	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x283C 11	300 or open circuit barometric pressure sensor.	P2229 Barometric Pressure Senace 'K Circuit Hig	ligh Ambient Pressure Sensor Electrical - DME	defective men	errory immediately.	Terminal 15 - none - None Voltage condition: - Onboard electrical system	- Nons NO	U N	- DME defective teuit code is logged again, replace the DME	- CC message: none lamp: on - ECE electronic engine	none	MIL on, customer proceeds to service facility	Norse	None
				internal	detected by the calculation		voltage between 9 V and 16 V Temperature condition: - None				- CC message: on - US emissions warning				
MEVD17.2- BN2000	0+283D 1	Ambient pressure sensor, electrical: Short circuit The diagnostic function monitors the DME's 301 to earth betrometric pressure sensor.	P2225 Barometric Pressure Sensor V: Circuit Lov	alge Polantial pro- Polantial pro- Polantial pro-	onthms. blem source(s): cont defective man	tault is logged in the introl module's fault emory immediately.	Time condition: - None Cher conditions: Terminal 15 - none - None	- Norse NO	U N	- If the diagnostic fault code has been logge - DME defective more than 3 times replace the DME.	lamp: off - US electronic engine power reduction: off - CC message: none	DODE	Possible apparent symptoms: MIL on, customer proceeds to service facility	Braskdown notice: None	Norm
04000			PARA DISCHART PRANT AND A CICA OF	entre entre entre entre	which pressure which pressure the pressure (basometric cost pressure, old pressure) by an 70 mbar.		Voltage condition: - Onboard electrical system			Total data and a part of the other	ECE emissions warning lamp: on	TACK B	and on containing proceeds to service racing	The second secon	PRA M
		During the control model's shuldown phase the despendence control model is shuldown phase the		annear preasure, b table - and	(barometric cost pressure, old pressure) by up 70 pressure		voltage between 9 V and 16 V Temperature condition: - None				- CC message: on - CC message: on				
MEVD17.2-		diagnostic function monitors the barometric pressure sensor, initial-manifold pressure associant possibular sensor, oversure. Pressure too whether they are all measuring the same	Ambient Pressure Sensor Attenuining	g Potential pro	blem source(s): This for in sensor cont	fault is logged in the introl module's fault	Time condition: - 5 sec. after engine off Other conditions:			Enor in sensor measurement     - If the diagnostic fault code has been logger	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2841 11	205 Ngh pressure.	P1289 Diagnosis Pressure Too High	the boost-pre-	is < 0.2 V.	emory immediately.	none - Shutdown phase - None Voltage condition: - Onboard electrical system voltage between 9 V and 95	- 5 sec. after engine off NO	none N	Sereor defective more than 3 times replace the DME	- CC message: none lamp: on - ECE electronic engine	none	Nore	- 1006	None
				Potential pro - Settor tim between DI	blem source(s): wiring hameas ME and boost-		V V Temperature condition: - None Time condition:				- CC message: on - US emissions warning				
MEVD17.2- BN2000	0x2842 11	Ambient pressure sensor, overnr: Pressure too The disgrostic function monitors the voltage at the boost pressure sensor.	Ambient Pressure Sensor Atternanting P1285 Diagnosis Pressure Too Low	g Ambient Pressure Sensor Attenuming - Defec	tive DME men	fault is logged in the introl module's fault emory immediately.	Time condition: - 5 sec. after engine off Other conditions: none - Stutdown phase - None	- 5 sec. after engine of NO	none N	Defact in wing hameas between DME and boost-pressure sensor - Boost-pressure sensor detactive - Defective DME: the fault code is current present or has been logged more than three immes	lamp: off - US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
				No elect barometric o	rical tault in rressure sensor or, PUEmin)		Volkeje condition: - Onboard electrical system volkeje between 9 V and 95								
				Potential pro - Barranetic - Installed	blem source(s): pressure sensor n DME ECU; stage above		V Temperature condition: - None				ELE entrators warning lamp: off     ECE electronic engine power reduction: off     - CC massage: none MY11 US: - US entrations warning				
MEVD17.2- BN2000	0x284C 11	Ambiert pressure sensor, plausibility: Pressure The diagnostic function monitors the barometric- 106 too high pressure sensor.	P11CB Berometric Pressure Tco High	the - DME dele	eshold This for critice owing to continue real fault mem	tault is logged in the introl module's fault encry immediately.	Time condition: - None Other conditions: - none - None	- None NO	7078 Y	Barometric pressure sensor installed in DME     Peplace the DME if the fault code is current     ECU; sensor voltage above threshold     rower detector costrgs to internal fault     meas	lamp: on - US electronic engine power reduction: off - CC message: on	nore	Possible apparent symptoms: None	Breakdown notice: A	terminal status switch must be conducted before this fault can be deleted.
							Voltage condition: - Onboard electrical system			- Check wiring harness between electric fe	ECE emissions warning lamp: off     ECE electronic engine				
				a abort circ	ecognized when suit is present.		voltage between 9 V and 15 V Temperature condition: - None			cutof relay and DME - Onex cutof relay (short Terminal 15 is of then 0 V should be present at both acree connection: MAX. When activate the relay					
MEVD17.2- BN2000	~~~~	Ambient pressure senser, plassibility: Pressure The diagnostic function monitors the barometric-	P0120 Barometric Pressure Yoo Low	- Defective - Cutoff relay	blem source(s): wining harness for electric fan cont	fault is logged in the introl module's fault	Interparative condition:     None     Time condition:     None     Other conditions:			Ben O V should be passer if a tooh score connections (M). When activated the main should activate the score makane should activate the score score score (C adms) should activate the score accessed of the score score score score - Ruptace and refers	US emissions warning     Lus emissions warning     Lus elactonic engine power     reduction: off     - CC message: on		Possible apparent symptoms:	Breakdown notice: A None	terminal status switch must be conducted before this fault can be deleted.
0.000		117 too low pressure sensor.	POTAR Darchitest, Pressdar 100 Con-	Prices / Result Office / Offic	lective men	emory immediately.	Voltage condition: - Orbitage condition: - Orbitage between 9 V and 15	10		Cutoff relay for electric fair defective     Paplace cutoff relay	ECE emissions warning large: off     ECE electronic engine power reduction: off	17418	Nore	100.00	Califie and the Califie Califie
				The fact is	recognized in		V Temperature condition:				MY11 US:				
MEVD17.2-	0.77.75	Ambient pressure sensor, plausibility: Pressure of the bacework pressure relative to that manual instrumble.	Anar	Potential pro	blem source(s): cont	fault is logged in the introl module's fault	- None Time condition: - None Other conditions: Vession / N			Replace the DAE if the fault code is current present or has been logged more than then	US emissions warning lamp: on     US electronic engine power reduction: off     CO memory on		Possible apparent symptoms:	Breakdown notice: A	terninal status switch must be conducted
BN2000	0x284E 11	318 implauable measured in the previous driving cycle.	P1247 Baronetric Pressure Plausibility	Anbient Pressure Plausbibly - DME	defective men	enarty immediately.	Terminal 15 - none - None Voltage condition: - Onboard electrical system	- riche NO	Inone Y	- DME defective times	- CC message: on     - ECE emissions warning     lamp: of     - ECE electronic engine     power reduction: off	none	Nore	Norm	before this fault can be deleted.
							- Onboard electrical system voltage between 9 V and 16 V Temperature condition: • Nme				CC message: none     MY11 US:     US emissions version				
MEVD17.2		Ambient pressure sensor, plausibility: Pressure The diagnostic function monitors variations in		Potential pro	ecognized when nains constant. blem source(s): cont	fault is logged in the introl module's fault	v Temperature condition: - None - None Other conditions:			- Replace the DME if the fault code is current present or has been logged more than the	lamp: on - US electronic engine power reduction: off		Possible apparent symptoms:		terminal status switch must be concluded
BN2000	0x284F 11	319 implexable the barcreatic pressure reading for plexability.	P1247 Batteristic Pressure Plausibility		defective men	emory immediately.	Terminal 15 - none - None Voltage condition: - Onboard electrical system voltage between 9 V and 16 V	- none NO	Inone Y	- DME defective times	- CC message: on	Done	Nore	Norm	before this fault can be deleted.
				The taskin in the relational indicated in relational indicated in relational indicated in relationships in the relation of the	ecognized when hip between the stake manifold and the mass		v Temperature condition: - 30°C < intake-air temperature < 120°C								
				cales working frontie-work vari	lated based on reangle is not prrect.		30°C < costant temperature			- Check intake system and crankcase for	- ECE emissions warning				
				Potential pro - Manuscript maiolid pre-	blem source(s): value for intake ssure (absolute) o high n leak within n leak within		I ma constance - None Ober conditions: - Engine on - Pressure dop at Entelle where exceeds 15 P ha - 740PA < barrenetic TOT _ standards			- Orski finika vybeň ad orakisané v - Orski finika vybeň ad orakisané v - Skat hodit v tejecké hodit vybeň ad orakisané v - Orski finika vyb	lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The diagnostic function monitors the throttle valve aperture and the current intake manifold		- Incorrect		fault is logged in the	valve exceeds 18 JPa - 760/JPa < barcreteric pressures -500 pm < engine speet -500 pm < engine speet -500 pm < - core temperature < 120" - 30"C < costent temperature < 120"	é rc		- Measured value for intake manifold pressure     (basice) log and wring harmess between init     marrield pressures and address sensor and DMP     (basice) log to high     - Chack plug, wring harmess at electric thrott     wave actuator	e- - US emissions warning - lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x28A0 1/	Throtis-valve angle - inske-menoloid pressure,     volve spentre and the current inske menoloid     pressure reading to determine whether they are     constitution. Limit volve escended     mutually plausible.	Manifold Absolute Pressure to Throttle Angl P112F Too High (Bank 1)	rgie - Manifold Absolute Pressure Correlation - Pressure a	engle cont enace defective mem	tault is logged in the introl module's fault emory immediately.	none - 123 rpm < dynamic rpm tamparature (201	- Non NO	none Y	Vacuum kaka within induction inscionanticase valve actuator     - incoment invottle-valve angle     - Replace pressure sensor     - Pressure sensor defective     - Replace broatle valve	US electronic engine power reduction: off     CC message: none	none	Possible apparent symptoms: - norm	Breakdown notice: - none	None
				i viciante i pressure i attrice ciclu. fictilie rai	take manifold and the mass lated based on re angle is not crect.		Voltage condition:								
					errect. blem source(s): value for intake		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Ferrepresentare condition:			Chack intake system and crawkcess for bakage     Chack Instels wave (contaministion, carbo depants, uring)	ECE emissions warning lamp: on     ECE electronic engine     power reduction: on				
		The diagnostic function monitors the throttle		manifold pour in t - Defect	usure (absolute) po low plug or wining		Temperature condition: - None Time condition: - None Other conditions:			- Measured value for intake manifold pressure     (abtockte) is too low     (abtockte) is too low     - Delective plug(s) or wring harrens     - Delective plug(s) or wring harrens	c US emissions warring				
MEVD17.2- BN2000	0x28A1 11	The diagnostic function monitors the throttle valve aperture and the current intake manifold pressure reading to determine whether they are 401 correlator: Limit value not exceeded metaure reading to determine whether they are exceeded to the the the they are the the the they are the the they are the the the they are the they are the the the the the the the the the th	Manifold Absolute Pressure to Throttle Angl P112E Too Low (Bank 1)	ngle - Atanifold Absolute Pressure Correlation - Pressure	n leak within This fa act/crankcase cont throtfe-valve men	fault is logged in the introl module's fault emory immediately.	Other conditions: - Engine on - Pressure drop at finotile none valve exceeds 15 MPa - None	- None NO	none Y	Defactive plugg) or wring harmas     - Deac plug, wring harmas at electric thrott     - Vaccurs law which inductor inschandcase     - Incorrect frontib-volve angle     - Pressure senarc detective     - Replace pressure senarc	US electronic engine power reduction: off - CC message: none	nane	Possible apparent symptoms: - norse	Breakdown notice: - none	None
				des signal from annaer 1 m fauit threads	n throtile valve sex above the old of 4.75 V.		Voltage condition: - Onboard electrical system voltage between 9 V and 16				ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC message: on				
				Potential pro - Detection - Detection	blem source(s): wiring harness hnottle-valve otor and DME valve sensor This fo		V Temperature condition: - None				- CC message: on - US emissions warning lamp: on				
MEVD17.2- BN2000	0x28A4 1	Throttle valve, throttle valve potentioneter 1, The diagnostic function checks the signal from 454 electrical: Short to B+ or open circuit throttle valve actuator 1 for electrical flutts.	Throttle/Pedal Position Sensor/Switch 'A' Cin P0123 High			tault is logged in the introl module's fault emory immediately.	Time condition: - None Other conditions: Terminal 15 - roos - None	STEUERN_DK, STEUERN_ENDE_DK, - None STATUS_DKP_VOLT	Sensor 1 voltage: 0.5 V (0x554E) N	Detect in wirisg harress between hordis-rube     - Detect wiring harress between DME and     - Throttle-avies senand offsective     - AD comments input in DME detective     - Replace throttle valve	- US electronic engine power reduction: on - CC message: on	none	Possible apparent symptoms: - Reduced power	Breakdown notice: - It is possible to contrivue driving the vehicle, but passing maneuvers should not be attempted owing to the reduction is angine output.	Done
				Per Lanner Per laight for lannar f tabi treachd	er input in DME mem m throttle valve i below the fault d of 0.22 V.		Volkaje condition: - Onbord electrical system volkaje betveren 9 V and 95				ECE emissions warning lamp: off     ECE electronic engine     power reduction: off				
				Potential pro	blem source(s): wiring hamess		V Temperature condition:				- CC message: on				
MEVD17.2- BN2000	0x28.44	Throttle valve, firottle valve potentioneter 1, The diagnostic function checks the signal from electrical: Stort circal to earth throttle valve actualor 1 for electrical fields.	Throttle/Pedal Position SensorSwitch W Ce	actuator m - Threther Decut	otor and DME valve senaor This for lective cont	fault is logged in the introl module's fault	Time condition: - None Other conditions:	STEUERN_DK, STEUERN_ENDE_DK, Norm	Sensor 1 voltage: 0.5 V	Defect in viving harmass between therdisonalue actions maker and therein therdisonalue actions of the second seco	- US electoric engine power reduction: on - CC message: on		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted upon to the seturition is excine	
BN2000	unatiAS 11	electrical: Shot circuit to earth I throttle value actuator 1 for electrical fluids.	P0122 Low	Intotal Polacon Sensor	er input in DME mem m throttle valve ses above the old of 4.77 V.	enery errorediately.	Terminal 15 - none - None Voltage condition: - Onboard electrical system voltage between 9 V and 15	- None STATUS DKP. VOLT	1000463 N	- AD convertier input in DME defective - Replace DME		Date	- Reduced power	owing to the reduction in engine output.	DODE
							V Temperature condition: - None				lamp: off - ECE electronic engine power reduction: off - CC message: on - US emissions warning				
MEVD17.2		Throttle valve, throttle potentiometer 2, The diagnostic function checks the voltage of	Throttle/Pedal Position Sensor/Switch & Cin	Detries 1 actuator m - Trotte dat	blem source(s): wiring hanness throttle-valve otor and DME valve senacr This for lective cont	fault is logged in the introl module's fault	- None Time condition: - None Other conditions:	STEUERN_DK, STEUERN_ENDE_DK,	Voltage sensor 2: 0.5 V	Defact in wring harness between thotifie-valve     actuator notice and DME     Throttle-walve and conflictive     Throttle-walve and conflictive     Throttle-walve and conflictive     Throttle-walve and conflictive	- US emissions warning lamp: on - US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	
BN2000	0x28A5 11	406 electrical: Short circuit to B+ B+cddle valve sensor 2 for electrical faults.	P0223 High	I Thottle Position Sensor I 2 - AD converts	er input in DME I men	emory immediately.	Lemmol 15 I-none - None	- None STATUS_DKP_VOLT	(0x584C) N	AD converter input in DME defective     Replace DME	- CC message: on	DODE	Reduced power	owing to the reduction in engine output.	none

		the signal from throttle valve sensor 2 falls below the fault threshold of 0.22 V.	Voltage condition: - On-board electrical system voltage between 9 V and 16		- 152 environ watering barry all - 2 to a second second second second second - 2 to a second second second second second - 0 CC second	
		Potential problem source(s): - Defect in wiring harmess	voltage between 9 V and 15 V Temperature condition:			
Threads when, threads potentionwater 2, electrical: Stort circuit to each or inte The diagnostic function checks the voltage of	ThrotikuPedul Positon SeruorSwitch & Circuit	between throttle-valve actuator motor and DWE - Throttle-valve sensor defective control module's fault	- None Time condition: - None Other conditions:	STELLERN_DK, STELLERN_ENDE_DK, Voltage sensor 2:0.5 V	Deticcl in wing harmas between fivedie-value     Chack wing h	Breakdown notoc: - It is passible to continue driving the vehicle, Possible apparent symptoms: built of basing manuses should not be astempted
BN2020 Du2EAD 10400 disconnection Bretlik value senser 2 for electrical faults. P0222	Low Theotis Position Sensor 2	- AD converter input in DME memory immediately. Terminal 15	rone None None	STATUS_DKP_VOLT (DxSHC) N	- AD converter input in DME delective     - Reptace DME     - CC message: on     none     laws: on	- Reduced power owing to the solution is angle adjut none
			Voltage condition:		- ECE electronic engine power indication on - CC message: on	
MEVO17.2- Threafie value: Linp-home spensing mode			Temperature condition: Time condition:		- US enhaltone wenning lange on - US elatance engine power	
MEV017.2- 8502000         Threfile value: Limp-kome operating mode         P152#           8502000         0.42800         19416         active         P152#	Throttle Valve Limp Home Mode Active Throttle Limp Home	Potential problem acurce(u): 0 voltages from sensors 1 and 2 exceeds a value defined in	Other conditions:	- None	0 0 endation at 0 0 - C2 enange at -	Possible apparent symptome: Breakdown notice:
		the application (characteristic curve) the fault is recognized.	- Onboard electrical system voltage between 9 V and 16 V		ECE electoric angine power roduction: of - CCC message: none	
Theolife value, finalitie cateriformater charability		Potential problem source(x): - Defect in wining harness between throttle valve This fault is logged in the	Temperature condition: - None Time condition:	Accelerator padal sensor 1 Pedal data sensor 1 voltage	- US entiators warring     Improve     - Defect in wiring harreas between frostlis value     - Chack wiring harreas between frostlis value     - Chack wiring harreas between frostlis value     - Chack wiring harreas between frostlis value	Pasable appenent symptom: - Linkin operativ lawe variation and on maximum absolute value (34.3% pada) - In combination with full in calculator padal
MEV017.2- Trining tab latenese potentionear: paulacity Trining tab latenese potentionear: Taka diagnostic function monitors the mutual BN0000 0x284 10020 potentionneter 2 deviation batteen the two sensor voltages. P1139	Throttle/Pedal Position Senson/Switch X / 5' Synchronous Operation Correlation (Bank 1) Throttle Position Sensor Correlation	between thostile valve This fault is logged in the potentioneter and DME control module's fault - Thostile valve memory immediately. Terminal 15 The fault is detected by the	None     None     None     None	voltage (0x5845); Accelerator pedal sensor 2 (0x5845); voltage (0x5847) N	potentiometer and DME potentiometer and DME reduction: on - Throttle valve potentiometer defective - Replace throttle valve potentiometer - CC message: on none	- In combination with fault in accelerator pedal     - In is possible to continue driving the which,     samce 1 reads/2, chromasel dile speed and no     burganing measurements     processing of accelerator pedal data     owing to the reduction in angine output.     None
		internal calculation algorithms.	Voltage condition: - Onboard electrical system voltage between 9 V and 15 V		lang on -CCI électronics angles pour relacions on - CC message: on	
		Potential problem source(s): - Defective wining herness between DRE and throatie This facility is besend in the	Temperature condition: - None Time condition:	PTE HERE DV	Chrick wang in max advance Low, and     US emissions warring     Defective wing hameas between DME and         - Replace throttle valve         lamp; on	Possible apparent symptoms: Breakdown notice:
MEV017.2- DME, Internal fault, activation of throttle valve: The diagnostic function monitors the driver INSIGNO 0.62858 10424 Short circuit controlling operation of the throttle valve. P2103	Throthe Actuator & Control Motor Circuit High Throthe Actuator Control Motor	valve This fault is logged in the ontrol module's fault - Defective RNME memory immediately. Terminal 15 The fault is detected by the	- none - None - None	STEUERN_DK, STEUERN_ENDE_DK, STATUS_DKP_VOLT none N	- Defective throttle valve present continuously or if the fault frequency is reduction: on     - Defective DME greater than 3	Peaklik spperer symptom:         Breakdown notice:           - Loss of power         - Ability to continue dring is instituted because           - Speed Imbelion         engine speed is instituted to costbur 1002 pm.
		internal calculation algorithms.	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V		lange on - ECE and devices angle power induction: on - CC manager: on	
		Potential problem source(s): - Defective writing harmens between DME and throttle value This fault is invest in the	Temperature conditor: - None Time condition: - None	STEUERN DK.	Outraining Terraining Terrainining Terraining Terraining Terraining Terraining Terraining Terr	Possible accurrent symptoms: Breakdown rotics:
MEV017.2- BX0200 0x2890 10425 Excess langurature or current too high circuit controlling operation of the throttle value. P2118	Throtle Actuator X Control Motor Current Range/Performance Throtle Actuator Control Motor	valve This fault is logged in the - Defective thorde valve control module is task - Defective DME memory immediately. Terminal 15	Citier condition: - none - None - None Voltage condition:	STEUERN_ENDE_DK, STATUS_DKP_VOLT none N	Contraction of the second seco	Possible apprent prophone.         Development rotice:           - Loss of power         - Aolity to contrast drive in rescricted baccase           - Speed Institution         engine speed is instant to roughly 1300 rpm.
			Cinboard electrical system voltage between 9 V and 16 V		langs on - CEC electrics regions poter inductions on - CC messages on	
		The fault is detected by the internal calculation algorithms. This fault is logged in the	Temperature condition: - None Time condition: - None	STELIERN_DK,	- US emissions searcing     Image on     - Only replace the DME if the fault remains     - Only remains     - Only remain	Possibile apparent symptome: Breakdown netice:
MEV:017.2- BXC200 0x288A 19425 DEXEMPTION To Communication of threaties valve: Internal communication that internal communication that POSTIF	Internal Control Module Throttle Actuator Controller Performance ECM Throttle Actuator	Potential problem source(s): control module's tealt     - DME defective memory immediately. Terminal 15     The teal is defected by the	Other conditions: - none - None - None - None - None	STEUERICE, DK, STUUE, DKP, VOLT none N	-DME defective present continuously or if the tault hequency is neduction: on     -DME defective greater than 3 -CC message: on none	Pression Applient improvement     Cause of power     Cause of pow
		internal calculation algorithms. Potential oroblem assurable:	Onboard sectorial system     voltage between 9 V and 16     V     Terroerature condition:		Improm - CCE electronic angle power relations on - Comesty winty horness between DVE and - Comesty on the comestication of the come	
		- Defective withing harness between DME and finable valve This fault is logged in the	Temperature condition: - None Time condition: - None	STEUERN_DK,	- Oraci vering harmas between DME and     - Defective wing harmas between DME and     - Porties valve     - Porties valve     - Replace harmonic works     - Porties valve     - Down product works	Possible appoint symptome: Dreakdown notice:
MEV0172- BNDDD 9x288 D427 Like deconnection of threate valve: The degressic function manifers the driver provid controlling operation of the threate valve. P2100	Threstie Actuator X: Control Motor Circuld/Open Threstie Actuator Control Motor	Objective theolfs valve control module's fault     Objective DME memory immediately. Terminal 15     the therefs valve draw and	Other conditions: - none - None - None	STEUEEN, DK, STEUEEN, ENDE_DK, STATUS_DKP_VOLT none N	Coll replace it doubt a visit data minute     Coll replace it d	Frusche Applie die spryweinie.     Fusik eine Applie die spryweinie.     Fusik eine Applie die
		eduant to an aperture of less than roughy 175 within 550 ms when voltage is not being applied to the unit.	Vollage condition: - Onboard electrical system vollage between 9 V and 16		Orack winto harrwas batween DME and     Isano on	
		Potential problem source(s): - Diction in valve	- Onboard electrical system voltage between 9 V and 16 V Temperature condition:		- Ouch wintigs how many holesen DME and the definition where - Use later's archive horder weak and observe to reaction archive the reaction of CCE definitions on observe to reaction of CCE manuage: on	
During the spring test the disground: function monitors the its table value to distantinia whether is statumed to the memory with the table of the statument of		Return spring detective     Datest in wring harmsan     between throatie-valve     actuator motor and DME     This fault is logged in the	- None Time condition: - None Other conditions:		- Chack theritis waite for contamination and     - Staction in value     - Rutation spiring districtive     - Rutation spiring districtive     - Rutation spiring districtive     - More theritis waite by hand, chacking ter     - Stacking in with parents between herbits-analer     - Index term in the stream term term interaction and complex quicidity     - I - Stacking in with parents between herbits-analer	Breakdown notice: - It is passible to continue driving the vehicle,
MEVD17.2-     BX2000     Go2286C     19238     Cancellation of their, spring dates not class     Registed     P153	Throtte Valve Adaptation Spring Test Failed Throtte Valve Adaptation (Bark 1) Throtte Adaptation	actuator motor and DNE This tauti is logged in the - Dafactive throtile-valve control module's tauti actuator protocol motor monodately. Terminal 15 the firstfle valve fails to	- Engine on - Vehicle velocity = 0 km/h - None - None	NO none Y	aduator motor and DME closes when released reductors on - Defective therefit-selve aduator motor - Replace firedit-unive actuator motor - CC message: on none	- It is possible sopravel symptom:     to far parking the vehicle,     to any service of the vehicle,     to any service of the vehicle,     - Reduced power constraints and on the reduction in angles output,     even a to any service outpu
		achieve an effective aperture of roughly 30% within 140 ms.	Voltage condition: - Onboard electrical system voltage between 9 V and 15		- Chack wing harmass between DME and harmon swring harmon definitions waring harmon definitions waring harmon definitions and harmonic and har	
		Potential problem source(x): - Stiction in throttle valve - Return spring defective	v Temperature condition: - None Time condition:		- Use taster to activate thords what and     - Station in thords - CC measure to     - CC measure to     - CC measure to     - CC measure to     - Station in thords wave     for thorgen deject	
ME/017.3-         Notice for the store of the disprote the dispr	Throtie Valve Actuator Spring Test (Bank 1) Throtie Actuator Spring Test	- Statum in throates values     - Indian print defaultion     - Indian print defaultion     - Default in writing humans     between throate-values     This fault is bigged in the     actuator motor and DME     control modules fault     - Default-in throates broate     Terminal 15	- None Other conditions: - Engine on - Vehicle velocity = 0 km/h - None - None		Contraining of the structure of the	Pesable apprent symptom: Pesable spopert sy
		the Brotile value does not return to an aperture of more than 7.4% within 550 ms				
		when voltage is not being applied to the unit.	Voltage condition: - Onboard electrical system voltage between 9 V and 15		- Outsh withing terman laterand DEE and     - Outsh withing terman laterand DEE and     - Outs within the set of the	
During the spring least the diagnostic function		Potential problem source(s): - Station in throttle valve - Ratum spring defactive - Dated in wirting harmana	Temperature condition: - None Time condition:			
monitors the throttle valve to determine whether it returns to the emergency-air position within MEVD17.2- Throttle valve actuator, opening spring test: the superinding and when no vallage is being	Throthe Valves Actuator Spring Test Stop, Spring does not Open (Bank 1) Throthe Actuator Spring Test	Defect in wining hammas between hostile-valve actuator motor and DME     This fault is logged in the - Defective throttle-valve control module's fault	- None Other conditions: - Engine on - Vehide velocity = 0 km/h - None - None		Return agring delicidive     - Move throatist valve by hand, deciding for     Lenge: on     Deficit in whing harmas between throatis-valve     realizations to rendom and     Move throatism relates and     Coles when relates and     reductions on	Breakdown notice:     - It is possible to contrain dring the whick,     - Pasable segment symptoms:     bud passing measurems should not be attempted     - Reduced power     coving to the extendion in engine cupiet,     none
BX0000 0-2200 10432 Cancellation of check, spring datas not open applied.     P1029	doan not Open (Bank 1) Throthe Actuator Spring Test	actuator motor memory immediately. Terminal 15 logged when the throtife valve fails to reach a position of leas then 2.5 %	Value condition:		Diffective throttle-valve advator motor     Pepilose throttle-valve advator motor     CC message: on     nore     -CC message: on     rore     -CC message: on     rore	Reduced power     owing to the reduction is engine output.     none
		and more than 0.4 % opening within 300 ms.	- Onboard electrical system voltage between 9 V and 16 V		Check wiring harmass between DME and lamp; on throttle value of throttle value of throttle value and throttle value and power reduction; on the poweree reduction; on the power reducting reducting reduction; on the	
During the spring heat the diagnostic function		Potential problem source(s): - Stiction in the title valve - Ratum spring defactive - Defact in writer hamesa	Temperature conditor: • None Time condition: • None		Adams in Section     Consequence     Cons	Breakdown notice:
MEX017.5- BX0200 0c215C1 10423 Faith during spring deck in analysis in provided potential with the specified potential with the specified potential with the specified potential with the specified mass. P1628	Throtile Valve Actuator Spring Text Mallunction during Opening (Bank 1) Throtile Actuator Spring Text	- Accion in strain water - Matter printig defaultione - Default in winnig humansa between hinotlis-water actuator motor and DME control modules taut - Defaults bettelt-water motor modules taut	Other conditions: - Engine on - Vehicle velocity = 0 km/h - None - None	NO none Y	Contain the number of the contraints and the c	Possible spravel symptoms:     Possible to confirms driving the vehicle,     bul passing menowers should not be attempted     reduced power     oving to the subclick in in engine codyst.     none
		the values for the emergency air point are determined to be less than 1.8% or targer than 16%.	Voltage condition: - Onboard electrical system			
		during the adaptation process. Potential problem source/si:	voltage between 9 V and 16 V Temperature conditor: - Engine warred to normal		Develope and of priority rate in any or	
		Defect in wiring harman     between throttle-valve     actuator motor and DME	• Engine warman concernant temp, above 80 °C Time condition: • 30 sec. after Terminal 15		Determine whether for the value is generic to Determine whether for the value is generic to Determine whether the value is generic to Determine whether whether is all and Determine whether whether whether is all and Determine whether whether whether is all and Determine whether w	
MEV/D17.2-         Threfits valve, adoptation: emergency number of provide transfer of the tra	Thruffie Valve Adaptation Line-Home Realtion Unicodes Blank 1) Thruffie Actuator Adaptation	Dirticontamination on throttle valve     This fault is logged in the -Throttle valve asized in control module's fault cogen or fully-closed position memory immediately. Terminal 15	on Other conditions: - Engine on - Engine warmed to normal - 20 sec. after Terminal - Vahide velocity = 0 km/h temperature.more than 80°C on	STEUERN_DK, S STEUERN_ENDE_DK, STATUS_DKP_VOLT note Y	Distordaministion hhrdlin valve     Induction system for contaministion     Instruct was associated on spont with the system set base on the system set bas	Breakdown notice     - II is passible sogneent symptoms:     - Use passible sogneent symptoms:     bud passing manawown should not be attempted     - Reduced paper     even pa bits extended.on tengree extended.
		mechanical travel atop aborted owing to low battery votage (< 10 V).	Oncourd electrical system voltage between 9 V and 16 V		- ECE environmentering lange on - ECE electronic angles power enducion: on	
		Potential problem source(s): - Pault code entry is for information and	Temperature conditor: - Engine warmed to normal temp, above 80 °C Time condition:		power reductors on - Check battery voltage (> 10 V), Terminal 15 eff > Terminal 15 cm > Wait 1 min - US emisations warring	
MEVDI7.2- Threads valve, adaptation: Marginal conditions disportation works and particular compliance with the	Throttle Valve Adaptation Conditions Not Met	information only - Throttle-valve adaptation siborited in response to kow This fluck is logged in the onboard electrical system control module's fault	- 30 sec. after Terminal 15 on Other conditions: - Engine warmed to normal - 30 sec. after Terminal	5	- Provided that the voltage condition has been large; on     - More that the voltage condition has been     mid the match had not doce again     - US electoric engine power     reflective-more adjustation aborted in response     - Component replacement based on this fault in     reduction: on	Dreaddown notice: Possible apparent symptoms: Ability to continue driving an esticided bacause
BX2000 9220C 1944 not met presched process conditions. P1622	(Bank 1). Throthe Actuator Actignation	voltage memory immediately. Terminal 15	Engine on temperature, more than 80°C on	ND none Y	to low onboard electrical system voltage not necessary! - CC massage: on none	Reduced power     ergine speed is limited to roughly 1302 rpm. none
		the limbs for the approved alignet velocitypes (signed voltages areas = 1 < 0.27 V/ aerosor 2 < 4.73 V/ are violated during the initial adaptation, or when the	Voltage condition: - Onboard electrical system		- Cear ECU tout memory 7 typicon df7	
		adaptation, or when the deviation of the sum voltage of server 1 and server2 of 5 V exceeds X V.	voltage between 9 V and 15 V Tamparahaa crootilion		Ignition on for at least 1 minute - ECE emissions examing - 1 finalities and present: Issue - ECE emissions examines - County which examples - ECE emissions examples	
			Engine warmed to normal terry, above 80 °C Time condition: -30 sec. after Terminal 15		- Fault during initial initiatudos attempt lower     - Fault during initial initiatudos attempt lower     - Sayset in the initiale manifold or within the     - Pault during initial initiatudos attempt lower	
The dispratic function monitors the threats where the dispratic function monitors that the lower MEV:017.2- Threats volve, adoptation: Marginal conditions mechanical travel starts ((ARA) during the initial	Threatile Valve Adaptation Conditions Not Met,	Promitial process Instructions; - Prant Borcology; Initialization animpy, bower mechanical toward loby one volution: - Detroctamenation on the - Detroctamenation of the - Detro	Cher conditions: - Engine on - Engine warmed to normal - 30 sec. after Terminal	5	Disticontermination on sixual tabp     - C. Completivity (costs the throttle valve by hand     - Foreign matter/object(b)     and measures the voltages on the two sensors     - US electronic engine power     education on     reducation on	Pesable apponent symptome: Ability to continue driving is read-class
BN2020 0x28C0 1945 not met beliny voltage too low addeptation. P1655	Ballery Volkge Tox Low (Back 1) Throtfin Actuator Adaptation	the limit specified for the signal voltages (server 1	Vehicle velocity = 0 km/h temperature, more than 80°C on	V NO	- Defective throatle valve     - Replace throatle valve     - CC message: on     none	Areboard power     ergine speed is inside to roughly 1200 rpm. none
		signal voltages < 0.22 V, sensor 2 > 4.73 V) are violated during the mesent				
		adaptation reading (nogably 3) Since: all Terminal 15 without engine start) or the mutual dividition between the num voltagess for american 1 and 2 of 3 km more fram X.	Voltage condition: - Onbeard electrical system voltage between 9 V and 16		1. Chare ECU Javit menory ?system of 7     10 yoho for al taxaf 1 minus     2. If suft menore:     2. Alt-suft winning     2. Alt-suft winning     2. Alt-suft winning	
		aum voltageas for sensors 1 and 2 of 5 V is more than X V.	V V Tempenature conditor: - Engine warmed to normal temp, above 80 °C Tempenature		2.4. Option and ring turning the first solution water from in direction and using manufactual 20 mm and and 20 mm and a solution and a solution and a solution and a solution and a solution and a department of the solution and and a solution and a solution and a department of the solution and a solution an	
The diagnostic function monitors the thostile value to distantine sharbur it maches the lower		Potential problem acurce(x): - Fault during repeat initialization attempt; lower	- 20 sec. after Terminal 15		result during repeat instalization assumpt; lower into cosing     mechanical travel limit range violation: 1.a. 2.c. Completely close the throttle valve by     - US emissions warning	
MEV/017.2- BND000 9c,2000 10446 Jower Intel position not buggt in 20 as part of the set	Throtile Valve Adaptation Lower Step Not Learned (Bank 1) Throtile Actuator Adaptation	mechanical travel limit range This fault is logged in the violation 1 a. Travel aton control module's fault	Other conditions: - Engine on - Engine warmed to normal - Vehicle velocity = 0 km/h temperature, more than 80°C on	5 NO none Y	Trade dato glide, head and anamara the voltages on the two tab. Foreign objectimation anamos, 10:5-20 volt- voltamona, 22:4: Vv- 1.6. Sponde contact instance 1.6 Devices the total voltamona 2. Replace heads under a second seco	Peakle apprent symptom: Abity to continue within tractional backase Abity to continue within the tractase Abity to continue within the tractable tackase Abity to continue within the tackase Abity tackase Abit
		dify, memory immediately. Terminal 15 the amplifier diffet exceeds 0.1 V or drops below 0.1 V. This fault is able registered when the	Voltage condition: - Onlocard electrical system voltage between 9 V and 16		- ECE ensuions warring	
		amplification factor is greater than 4.15 or leas than 3.85. Potential problem source(x):	v Temperature condition: - Engine warmed to normal temp, above 80 °C		Lange cn - CCE atcherine angine power reduction: on - CC manager, on	
During the freedom with adjustment reaction in the department between the state of MEV017.2. Threads value, adaptation, Tasahin again, usure properties on the freedom of the thread of properties of the state o		Defect in wing harness between throttle-raive actuator motor and DME	anty, accesso C Trans concession: - 30 sec. after Terminal 15 on Other conditions:		Delection where determines the same of the first section where the same of the same o	
MEVDI7.2- Throfite value, subplation: Teach in signs), lower ampficiation directive value prelimiter in the shaft and BND000 0x2004 10452 Initi position not suppl in the supplication directive value prelimiter in the through the state of the state o	Throttle Valve Adaptation Stop Relearning Lower Mechanical Stop (Bark 1) Throttle Actuator Adaptation	- AD converter input in DME memory immediately. Terminal 15	Engine on     Engine varmed to normal     - 20 sec. after Terminal     Vehicle velocity = 0 km/h     temperature, more than 80°C     on	5 NO none Y	- AD converter input in DME defective     - Replace DME     - CC message: on     none     miss in one or several cylinders, or combustion	Possbie apparent symptoms: Breakdown notice: Nore Nore nore
		The fault is recognized when the arrount of entering air is less than that required for the entering of the test in	- Onboard electrical system voltage between S V and 15 V		miss when had level is low), repair these issues. first. No load diagnosts required on hybrotheration external . FCFI aminuting section	
		the calculated fuel-ait ratio. Potential problem source(u): - Externe dri/contamination	Temperature conditor: - None Time conditor: - None		- Visual imposition of biceview 1 bices batwares barry of      compression of inclaim multiple     - Cock are film     - Optick are film     - Optick are film     - Optick are film     - Optic pressions present of 200, 200 bits     - OCT measures now	
		Example deliverational approximation     in all filter     eacher in hoost-all rubes     batheses compressor and     index manifold     This fault is boost in the	Other conditions: - Engine speed above 1900 pom - Engine load		Extreme diricontamination in all filter     inside an initial and the initial and planar and     - US emissions warring     inside manifold. Replace any leaking     lamp: on	Breakdown notice:
MEV017.2- Intale air system; Suspicion of leaks between The diagnostic function monton the 050200 01/200 10000 Intelligence and index when compressed craits air.		intake manifold This taut is logged in the - Positive crankcase control module's taut - ventifiation valve, defactive memory immediately. none the sensor untage lise below	Turbochanger boost in dosed-loop control range - None - None	NG none Y	Leaks in blood-wit heles between compresente         — US electronic ergosing prover         and in training multiple         — UT electronic ergosing prover         — US electronic ergosing         — US electronic ergosing prover         — US electronic ergosing prover         — US electronic ergosing         — US electronic ergosin	Possible approver typerations:
		the sensor voltage lies below 0.1 V. Potential problem source(s): - Coolers temperature sensor	Voltage condition: - Onboard electrical system voltage between 9 V and 95		- tange on - 4CE4 dischoire organ poter reduction: on - 4CT massage on	
		wiring harmens has short	V Temperature condition: - None Time condition:	0.6837	- US aminutions serving	
MEVD17.2- Codiert temperature sensor, electrical: 2hort The disgnostic function monitors the codient	Engine Coolent Temperature Sensor 1 Circuit	- Temperature is outside measurement range - Coolent temperature sensor - Coolent temperature sensor - Coolent temperature sensor - Control module's fault	The condition: - None Other conditions:	0:5438 0:5439	Coacta frequentions assess with provide the sense of	Possible approved sympleme: Possible power reduction Breakdown notice:

					the sensor voltage is above 4.95 V. Potential problem source(s): - The coolant temperature			Voltage condition: - Onboard electrical system voltage between 9 V and 15							ECE emissions warning lamp: on ECE electoric engine power reduction: on - CC message: on				
					sensor's wiring hanness is shorted to positive or has an open wire			voltage between 9 V and 16 V Temperature condition: - None Time condition:			0:5437	- The coolant to barress is shorte	emperature sensor's wiring ad to positive or has an open		- CC message: on - US emissions warning lamp: off				
MEVD17.3- BN2000 0x2237 10051 B+ or open decut temperature sensor, electrical: Short to The diagnostic function temperature as	monitors the coolant analysis of the coolant P0118	Engine Coolant Temperature Sensor 1 Circuit High	Engine Coolant Temperature Sensor	1 Electrical	Temperature is outside measurement range     Coolent temperature sensor defective     the coolant temperature is	This fault is logged in the control module's fault memory immediately.	Terminal 15	- 21 sec. after engine start Other conditions: - Cold engine start	None - 21 sec	c. after engine start NO	 0x5A37 0x5A38 0x5A39 0x581E N	- Temperature is	vine i outside measurement range perature sensor defective	Check coolant temperature sensor wiring harness     Replace coolant temperature sensor	US electronic engine power reduction: off - CC message: none     - ECE emissions warning	none	Possible apparent symptoms: Possible power reduction Fan at maximum rotation speed	Breakdown notice: None	None
					18°C above the average of several temperatures at cold abart. Potential problem asymptical			Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition:					_	_	lamp: off - ECE electronic engine power reduction: off - CC message: none MY11 US:				
The diagnostic function MEVD17.2- Coolerst temperature sensor, cold start: Coolerst temperature to detect ex	n monitors the coolant considerly high values				Potential problem source(s): - Engine block heater or auxiliary heater may be installed - Defect in wining hamess	This fault is logged in the control module's fault		Temperature condition: - None Time condition: - 21 sec. after engine start Other conditions:			Read test data block;	- Engine block hear - Defect in wining - S	ater or auxiliary heater may be installed g hameas between DME and sensor arraor defective Defective DME	Determine whether an engine block heater or auxilary heater is installed     Check wing harmass between DME and sensor     Replace sensor	MY11 US: - US emissions warning lamp: on - US electronic engine power reduction: off		Possible apparent symptoms: Rough engine, possibly followed by power	Breakdown notice:	
BN2000 0x233A 10054 temperature too high during cel	dd staets. P1005	Cold Start Engine Coolect Temperature Too Low	Engine Coolant Temperature	Cold Start	Detween DME and sensor The fault is recognized when the coolant temperature is 18°C below the average of several temperatures at cold	memory immediately.	70256	None Voltage condition:     Onboard electrical system voltage between 9 V and 15	Non -21 and	ic, after engine start NO	 D 381F N		Defective DME	- Replace DME	CC message: on     ECE emissions warning     lamp: of     ECE electronic engine     power reduction: of     CC message: none     MY11 US:     US     IP engine	Date	reduction caused by thermal management	Norm	Non
					Potential problem source(s):			voltage between 9 V and 15 V Temperature condition: - None Time condition:					hameas between DME and	- Check wiring harness between DME and	CC message: none MY11 US: - US emissions warning lamp: on				
MEVIDIT.2- BN2000 0:2238 10055 Interpretative sensor, cild start Coolair Interpretative to deter a	spessively low values	Cold Start Engine Coolant Temperature Too Low	Engine Coolant Temperature	Cold Start	Defect in wiring harness between DME and sensor - Sensor defective - Defective DME temperature jumps of 30°C	This fault is logged in the control module's fault memory immediately.	70256	- 21 sec. after engine start     Other conditions:     - Cold engine start	None - 21 and	ic, after engine start NO	 Read test data block; ID 581/F N		aments between DNE and sensor lenaor defective Defective DME	- Crieck wing names between Live and sensor - Replace sensor - Replace DME	US electronic engine power reduction: off <u>CC message: on</u>	Date	Possible apparent symptoms: Rough engine, possibly followed by power reduction caused by themail management	Breakdown notice: None	Non
					occur.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V Temperature condition:							lamp: on - ECE electronic engine power reduction: on - CC message: on				
MEVD17.2- DX0000 0x2943 1052 change so that plausibility. Signal temperature sensor, plausibility. Signal temperature sensor in the plausibility. Signal temperature sensor in the plausibility of the sensor plausibility. Signal temperature sensor in the sensor plausibility. Signal temperature sensor sensor plausibility. Signal temperature sensor sen	a voltage signal for	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	Engine Coolant Temperature Sensor	1 Plaushilly	Potential problem source(s): - Defect in wining harness to coolart temperature sensor - Coolart temperature sensor installed incomedly - Coolart temperature sensor defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	None     Time condition:     None     Other conditions:     Ergine CN	Nma Nma		0x5A37 0x5A35 0x5A39 0x581E N		viring harmess to coolant operature senaor operature senaor installed incorrectly penature senaor defective	- Check coolant temperature sensor wiring harness - Replace coolant temperature sensor	US emissions warning lamp: off     US electronic engine power reduction: off     CC message: none	0.75	Possible apparent symptoms: Possible power reduction Fan at maximum rotation apend	Breakdown notice: Norw	Nine
					temperature jumps of 30°C occur. Potential problem source(x):			Voltage condition: - Onboard electrical system voltage between 9 V and 16 V							lamp: on - ECE electronic engine power reduction: on - CC message: on				
MEVD17.2- Coolert temperature sensor, datability. Sanal temperature sensor,	monitors the coolant				Defect in wining harness to coolant temperature sensor     Coolant temperature sensor     installed incorrectly	This fault is logged in the control module's fault		Temperature condition: - None Time condition: - None Other conditions:			0:5A37 0:5A35 0:5A39	- Defect in w tem - Coolant tem	viring harness to coolant sperature sensor sperature sensor installed incorrectly	- Check coolant temperature sensor wiring	US emissions warning lamp: off     US electronic engine power reduction: off		Possible apparent symptoms: Possible power reduction	Breakdown notice:	
MEVD 17.2- BN2000 0x2943 10553 Collect temperature sensor, plausbilly: Sgnal temperature sensor, plausbilly: Sgnal temperature sensor plaust	h voltage signal for P3156	Engine Coolant Temperature 1 Gradient Too High	Engine Coolant Temperature	General	Coolant temperature sensor defective the coolant temperature sensor transmits impleusible temperature data.	control module's fault memory immediately.	Terminal 15	Other conditions: - Engine CN Voltage condition: - Onboard electrical system voltage between 9 V and 16	None - None	NO NO	 0d5439 0d581E N	- Coolant temp	incorrectly perature sensor defective	harress - Replace coolart temperature sensor	- CC message: none	none	Possible power reduction Fan at maximum rotation speed	Breakdown notice: None	Nore
					Potential problem source(x): - Defect in wiring harness between DME and coolant			V V Temperature condition: - None Time condition: - 1 min. after engine start							Else unactes warning     Else and the second s				
MEVD17.2- Coolari temperature sensor, plausibility: Engine temperature sensor, plausibility: Engine temperature sensor plausibility temperature temperatem tempera	nmonitors the coolant IN INCIDENT P112B	Engine Coolent Temperature Too Low	Engine Coolant Temperature Sensor	1 Temperature	Coolant temperature sensor defective Defective DME	This fault is logged in the control module's fault memory immediately.	70216	Engine on     No block heater active	None - 1 min.	after engine start NO	 0x5A37 0x5A38 0x5A39 0x581E N	- Coolant temp	g hamess between DME and temperature sensor perature sensor defective Defective DME	Check wining harness between DME and coolant temperature sensor     Replace coolant temperature sensor     Replace DME	Lamp: on - US electronic engine power reduction: off - CC message: on	Date	Possible apparent symptoms: Possible power reduction Fan at maximum rotation apeed	Breakdown notice: None	Norm
					the coolant temperature sensor transmits impleusible temperature data. Potential problem source(s):			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC emissions areas				
Costant temperature sensor, plausibility: Engine MEV/D17.2- temperature compared with model implausibly The diagnostic function					Defect in wiring harness between DME and coolant	This fault is logged in the control module's fault		Temperature condition: - None Time condition: - 1 min, after engine start Other conditions: - Engine on			0:5A37 0:5A35 0:5A39	- Defect in wiring coolant	g harness between DME and I temperature sensor perature sensor defective	Check wining harness between DME and coolant temperature sensor     Replace coolant temperature sensor	- CC message: none MY11 US: US emissions warning lamp: on - US electonic engine power reduction: off		Possible apparent symptoms: Possible power reduction		
MEV017.2- NO200 0x2247 10557 temperature compand with model impleuably The diagnostic function too low temperature too low temperature		Engine Coolent Temperature Signal Stuck Low	Engine Coolant Temperature	General	Colari temperature annor defective Defective DME the coolari temperature sensor transmis implausible temperature data.	control module's fault memory immediately.	70214	Engine on     No block heater active     Onboard electrical system     voltage between 9 V and 16	Noos - 1 min.	after engine start NO	 0x5839 0x581E N	- Coolant tem	perature sensor defective Defective DME	- Replace coolart temperature sensor - Replace DME	- CC message: on	Date	Possible power reduction Fan at maximum rotation apend	Breakdown notice: None	Nore
					Potential problem source(s): - Defect in wiring harness between DME and coolant			V Temperature condition: - None Time condition: - None							ECE amazon warning large: off ECE electronic engine power reduction: off - CC massage: none MY11 US: - US emissions warning				
MEVD17.2- BX2000 0x2246 10058 temperature sensor, plausibility: Engine The diagnostic function temperature sensor, plausibility: Engine The diagnostic function	monitors the coolant receiver. P0115	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	Engine Coolant Temperature Sensor	1 Plauability	Emperature sensor - Coolant temperature sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately.	none	Other conditions: - Engine on - Engine temperature between 15°C and 60°C	None - None	NO	0:5A37 0:5A38 0:5A39 0:531E N	coolant - Coolant temp	g hamess between DME and temperature senaor perature senaor defective Defective DME	Check wining harness between DME and coolant temperature sensor     Replace coolant temperature sensor     Replace DME	- US electronic engine power reduction: off - CC message: on	Date	Possible apparent symptoms: Possible power reduction Fan at maximum rotation speed	Breakdown notice: None	Norm
					the coolant temperature sensor transmits implausible temperature data. Potential problem source(x):			Onboard electrical system voltage between 9 V and 16 V Temperature condition: None Time condition:							ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC massage: none MY11 US:				
					Defect in wring hamess between DME and coolant temperature sensor     Coolant temperature sensor	This fault is logged in the control module's fault		- None Other conditions: - Engine on - Engine temperature			0:5A37 0:5A38 0:5A39	- Detect in wiring coolant	phamess between DME and temperature senacr	Check wining harness between DME and coolant temperature sensor     Replace coolant temperature sensor	- US emissions warning lamp: on - US electoric engine power reduction: off		Possible apparent symptoms: Possible power reduction		
MEV017.2- Coolant temperature sensor, plausibility: Engine The diagnostic function BN2000 0x2245 10558 temperature implausible temperature temperature implausible	monitors the coolant in service. P3150	Engine Coolant Temperature Signal Stuck	Engine Coolant Temperature	General	defective - Defective DME This is monitored in the instrument cluster.	control module's fault memory immediately.	note	Engine temperature between 15°C and 60°C Voltage condition: Onboard electrical system voltage between 9 V and 15	None - None	NO NO	 0x5839 0x581E N	- Coolant temp - C	Interperature sensor persture sensor delective Defective DME	Replace coolart temperature sensor     Replace DME	- CC message: on Lamp: on - ECE electoric engine power reduction: on - CC message: on	none	Possible power reduction Fan at maximum rotation speed	Breakdown notice: None	None
					Potential problem source(s): - Wilring hanness to outside temperature sensor defective			V Temperature condition:				- Witton harness to	n codolda tamparatura nanarr		- CC message: on - US emissions warning lamp: off				
MEVD17.2- BN2000 0x299A 10050 themperature sensor, signal: Upper temperature sensor is temperature sensor is tem	or excessively high	Ambient Air Temperature Sensor Circuit 'A' High	Ambient Air Temperature Sensor	Electrical	Outside temperature sensor defective     Instrument cluster faulty     This is monitored in the	This fault is logged in the control module's fault memory immediately.	Terminal 15	Time condition: - None Other conditions: - none Voltage condition:	None - None	NO.	 CAN signal (dum) from I- duater Y	- Outside temp	o cutaide temperature senaor defective perature senaor defective ment cluster faulty	- Continue fault diagnosis at the instrument cluster	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None
					instrument cluster.			Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition:							lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions warring				
MEVD17.2- 0.02398 10051 Extractional Section 2010 Extractional Sectio	monitors the outside for scoressively low re- figures. P0072	Ambient Air Temperature Sensor Circuit 'A' Low	Ambient Air Tempenskum Seraor	Electrical	- Wing hannas to cutaide Imperature sensor defective - Outside temperature sensor defective - Instrument cluster faulty	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None - None Time condition: - None Other conditions: - none	None - None	NO	CAN signal (dum) from I- duater Y	- Willing harness to - Outside temp - Insta	o cutaide temperature senaor defective perature senaor defective ment cluster faulty	- Continue fault diagnosis at the instrument cluster	- US electronic engine power reduction: off - CC message: none	Date	Possible apparent symptoms: Note	Breakdown notice: Notes	Norm
					This is monitored in the instrument cluster. Potential problem source(s):			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							lamp: on - ECE electronic angine power reduction: on - CC message: on				
MEVD17.2- Oxfaide temperature sensor, signal: C-M The dispositio function	monitors the outside	Ambient Air Temperature Senace Faulty CAN			Wing harness to outside Ismperature sensor defective - Outside temperature sensor defective	The diagnostic fault code is logged when the fault remains present for longer		Temperature condition: - None Time condition: - None Other conditions:			CAN signal (dum) from i-	- Outside terro	lo cutaide temperature senaor defective perature senaor defective	- Continue fault disproxis at the instrument	US emissions warning lamp: off     US electronic engine power reduction; off		Possible apparent symptoms:	Breakdown notice:	
BN2000 Gu299C 10052 mexaage fauly temperature sens	aora CAN data. P110F	Signal	Ambient Air Temperature Sensor	Sgral	defective - Instrument cluster faulty	than 1 min.	Terminal 15	- none     - Onboard electrical system     voltage between 9 V and 15     V	None - None	NO NO	cluster Y	- Instru	ment cluster faulty	cluster	- CC message: none	note	None	Clarification in progress	Norm
					The fault is recognized when the outside temperature remains more than 20°C above the model value for			- Engine warmed to normal temp, above 80 °C Time condition: - None							MY10 ECE: - ECE emissions warning lamp: off - ECE electronic engine power reduction: off				
					longer than 14 sec.	The diagnostic fault code is		Time condition: - None Other conditions: - Engine on - Vehicle speed in excess of 45 km/h						- Check outlide temperature	power reduction: off - CC message: none MY11 US: - US emissions warning lamp: on - US electonic engine power reduction: off				The following conditions can lead to an incomet diagnosis:     Battery change or distorive battery     Engine heated by second y source, such as audiary heater     Senore formen
MEVD17.2- BN2000 0x2242 1055 Unitian temperature sensor, plauability: Arbitet temperature lighter han model temperature of the outside t	checks the plausibility temperature. P0071	Ambient Air Temperature Senaor Circuit 'A' Range/Performance	Ambient Air Temperature Sensor	Plausibility	Defective wiring harness     Outside temperature sensor     defective	logged when the fault remains present for longer than 1 min.	none	Mass-airflow rate less than 200 kgh Intake-air temperature is Onboard electrical system voltage between 9 V and 15	Engine warmed to normal emperature, more than 80°C - None	ол	none Y	- Defec - Outside temp	ct in wiring harness perature sensor detective	Oheck outside temperature     Oheck outside temperature sensor     Oheck elimphamsas behaves the hatament     cluster and the outside temperature sensor	- US electronic angine power reduction: off - CC message: on	ML ON in US versions only	Possible apparent symptoms: Nore	Breakdown notice: None	Engine neared by sectors y source, such as aucliary heater     Sensor frozen
					The fault is recognized when			V							MY10 ECE: - ECE emissions warning lamp: of				
					The fault is recognized when the outside temperature remains more than 20°C above the model value for longer than 14 sec.			Engine warred to normal simp, above 80 °C Time condition: None Other conditions: Egine on Vehicle speed in excess of							M110 EUE - ECE elisistica warning lamp: off - ECE elisistica varning power reduction: off - CC masage: none MY11 US: - US emissions warning US emissions warning				The following conditions can lead to an inconset diagnosis:     Battery change or delective battery     Engine heated by secondary source, such as
MEVD 17.2. Doc2242 10056 Control temperature sensor, plocaliship: Architect Interpretative Sensor Interpretative Media (Interpretative Sensor) (Interpretative Control of the catalishi Interpretative Control of the catalishi (Interpretative Control of the Control	checks the plausibility temperature. P10EA	Ambient Air Temperature Too High	Arrbiert Air Temperature	General	Potential problem source(s): - Defective wiring harness - Outside temperature sensor defective	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	Vehide speed in excess of 45 kmh     Mass-siflow rate less than 200 kgh     Intake-sif temperature is     Onboard electrical system voltage between 9 V and 15	Engine warmed to normal emperature, more than 80°C - None	NO	none Y	- Defec - Outside temp	ct in wiring harness perature sensor defective	Check outside temperature     Check outside temperature sensor     Check wiring harness between the instrument     duater and the outside temperature sensor	lamp: on - US electronic engine power neduction: off - CC message: on	ME. ON in US versions only	Possible apparent symptoms: None	Breakdown notice: None	Battery change or detective battery     Engine heated by ascondary acurce, such as     auciliary heater     Sensor frozen
								voltage between 9 V and 16 V Temperature condition: - Engine warmed to normal							MY10 ECE: - ECE emissions warning				
					The fault is recognized when the outside temperature remains more than 20°C below the model value for longer than 14 sec.			v Temperature condition: - Engine warmed to normal temp, above 80 °C Time condition: - None Other conditions: - Engine on							MY10 ECE: - ECE emissions warning lamp: off - ECE electoric engine power reduction: off - CC massage: none MY11 US: 107				- The following conditions can lead to an
Outside temperature sensor, plauability, MEVD17.2- Ambient temperature issue than model The diagnostic function of		Ambient Air Temperature Sensor Circuit 'A'			Potential problem source(x): - Defective wiring hameas - Outside temperature sensor	This fault is logged in the control module's fault		- Engine on - Vehicle speed in excess of 45 kmh - Mass-airliow rate less than 200 kgh	Engine warried to normal				ct in wiring harmess	Check outside temperature     Check outside temperature sensor     Check wiring harvess between the instrument	- US emissions warning lamp: on     US electronic engine power reduction: off     - CC message: on		Possible apparent symptoms:	Breakdown notice:	incorrect diagnosis: - Bartery change or detective battery - Engine heated by secondary source, such as socilary heater
BN2000 Dx22N3 10559 Itemperature of the outside f	temperature. PO071	Range/Performance	Ambient Air Temperature Sensor	Plausibilty	defective	memory immediately.	none	Intake-air temperature is     Onboard electrical system voltage between 9 V and 16 V Temperature condition:	emperature, more than 80°C - None		none Y	- Outside temp	perature sensor defective	duater and the outside temperature sensor	MY10 ECE:	ME. ON in US versions only	None	Nore	- Berace frozen
					The fault is recognized when the outside temperature remains more than 20°C			Temperature condition: - Engine warried to normal temp, above 80 °C Time condition: - None							ECE emissions warning lamp: off     ECE electronic engine				
Outlide temperature sensor, plausibility: MEVD17.5- Arbitet temperature less thes model The dispositio function of					below the model value for longer than 14 sec. Potential problem source(s) - Defective wiring harness - Outside temperature sensor	This fault is logged in the control module's fault		Vogen Waters of on Industry     Waters, above 80 °C     Time condition:         -None     Other conditions:         -Engine on         -Vehicle speed in excess of     45 km     45 km     -Mass-airliow rate less than     200 kah						Check outside temperature     Check outside temperature sensor     Check wing harness between the instrument	- CC massage: now MY11 US: - US emissions warring lamp: on - US electoric engine power reduction: off				The following conditions can lead to an incorrect diagnosis:     Batlery change or defective battery     Engine head by secondary sources, such as auxiliary header     Engine head by the secondary sources
MEV017.2- Anthiest temperature leas than model The diagnostic function of the outside to the out		Ambient Air Temperature Too Low	Ambient Air Temperature	General	Outside temperature sensor defective the intake-air temperature exceeds an average figure from several temperatures during cold starts.	control module's fault memory immediately.	note	- Intake-air temperature is	Engine warried to normal amperature, more than 80°C - None	NO NO	 none Y		ct in wiring harness perature sensor detective	Check wiring harness between the instrument duater and the outside temperature sensor	- CC message: on MY10 ECE: - ECE emissions warning	ME ON in US versions only	Possible apparent symptoms: None	Breakdown notice: None	auciliary heater - Senacr Irozen
					Potential problem source(s):			Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition:							CC message: or     MY10 ECE:     ECE electoric engine     power reduction: off     CC message: none     MY11 US:     ItS environmention				
MEVD17.2. Intake at temperature sensor, cold start. Intake- Immorphism to detect ex-	cessively high values	Cold Start Intake Air Temperature Too High			Defective wiring hameas between DME and intake-air temperature sensor     Intake-air temperature sensor defective	This fault is logged in the control module's fault		Temperature condition: - None Time condition: - 21 sec. after engine start Other conditions:			Read test data block; ID 581F N	intake-air - Intake-air tem	g hameas between DME and ir temperature sensor spenature sensor defective	Check wiring harness between DME and intake- air temperature sensor     Replace intake-air temperature sensor	lamp: on - US electronic engine power reduction: off		Possible apparent symptoms: Rough engine, possibly followed by power	Breakdown notice:	
BN2000 Gu2BCC 10700 air temperature too high during col	P10CA	(Bank 1)	Intake Air Temperature	1 Cold Start	Defective DME     the intake-air temperature is     below an average figure from     several temperatures during     cold starts.	memory immediately.	1016	Cold engine start     Voltage condition:     Onbrand electrical system	NO16 - 21 80	ic. after engine start NO	ID SATE N		Defective DME	- Replace DME	CC message: on     MY10 ECE:     ECE emissions warning     lamp: of     ECE electronic engine     power reduction: of     CC message: none	none	reduction caused by thermal management	Nore	NON
					Retested and loss assessed			Onboard electrical system voltage between 9 V and 16 V Temperature condition: - None Time condition:							MY11 US:				
MEVD17.2- BN2000 Gx29CD 10701 their temperature sensor, cold start: Intele- tion of the sensor start in the sensor start in the sensor start in the sensor start is the sensor start in the sensor start is the sensor start in the sensor start is th	monitors the intake-air accessively for values of starts. P100D	Cold Start Inteke Air Temperature Too Low (Bank 1)	Intake Air Temperature	1 Cold Start	Operating Decemponent about Applications     Operating Decemponent and intake-air temperature sensor     Intake-air temperature sensor defective     Operative DME     the workshop of the intake-air temperature	This fault is logged in the control module's fault memory immediately.	none	- 21 sec. after engine start Other conditions: - Cold engine start	None - 21 sec	ic. after engine start NO	Read test data block; iD 5851 N	intake-air - Intake-air tem	g harness between DME and ir temperature sensor operature sensor defective Defective DME	Check wining harness between DME and intake- air temperature sensor     Replace intake-air temperature sensor     Replace DME	- US emancing warring lamp: on - US electronic engine power reduction: off - CC message: on     - CC message: on	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None
					the voltage of the intake-air temperature sensor exceeds 4.85 V. Potential problem source(s):			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							ECE emissions warning lamp: on     ECE electronic engine power reduction: on     CC message: on				
The disposite function: MEVD17.2. Intake air temperature sensor, electrical: Short voltage limit of the init	n monitors the upper	Intake Air Temperature Sensor 1 Circuit High			Defective wiring harmass between DME and intake-air temperature sensor     Intake-air temperature sensor defective	This fault is logged in the control module's fault		V Temperature condition: - None Time condition: - None Other conditions:			Read test data block;	- Defective wing	g harness between DME and ir temperature sensor sperature sensor defective	Check wining harmess between DME and intake- air temperature sensor     Replace intake-air temperature sensor	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
MEVD172- Initials at integrature sense, electrois 20ort voltage limit of the inte BN2000 0x2500 10704 circuit to 5+ senser on the angine-	aide of the air filter. PO113	Intake Air Temperature Benzer 1 Circuit High (Bank 1)	Intake Air Temperature Senaor	1 Electrical	sensor detective     - Defective DME     the voltage of the intake-air     temperature sensor is less     than 0.17 V.	memory immediately.	Terminal 15	trane Voltage condition:     Onboard electrical system	None - None	NO NO	 ID 5851 N	- stase-air terr - C	perature sensor defective Defective DME	- Replace DME	CC message: none     ECE emissions warning     lamp: on     ECE electronic engine	none	Possible apparent symptom: Engine runs roughly	Breakdown notice: None	None
					Retested and loss assessed			Voitage between 9 V and 15     V     Temperature condition:     - None     Time condition:     - None					hameas between DME and	- Check wiring harness between DME and intele-	power reduction: on - CC message: on				
MEVD17.2- BN2000 0x28D1 10705 chouit to earth sensor, electrical: Short votage limit of the initial sensor on the engine-	in monitors the lower alke-air temperature -side of the air filter. P0112	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	Inteke Air Temperature Sensor	1 Electrical	Otenina proveni nocidani Otenico wiring hannass between DME and intake-air temperature sensor Intake-air tempesiture sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	Time condition: - None Other conditions: - none	None - None	NO	Read test data block; ID 5851 N	- Lenectwe wiring intake-air - Intake-air tem - C	g harness between DME and ir temperature sensor operature sensor defective Defective DME	Check winng harness between DME and intake- air temperature sensor     Replace intake-air temperature sensor     Replace DME	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: None	None

		the difference between the raw votage value and the low-pass-filtered votage is greater than 0.5 V.		Voltage condition: - Orbeard electrical system					ECE emissions warning lamp: on     ECE electronic engine			
		Potential problem source(s): - Defective wiring harness between DME and intake-air		vollage between 9 V and 95 V Temperature condition: - None Time condition:			- Defective wining hamesa between DME and	, Chark winn harness hateeen DMF and inteles.	power reduction: on - CC message: on - US emissions warning lamp: off			
NEV:0172-         The dispetitic function monitors for vallage of https://dispetitic.forumation.com/section_files/indispetition_indispetitindispetition_indispetitindispetitation_indispetition_in	irtale Air Temperature Sensor 1 Circuit Ronge/Pedermance (Base 1) irtales Air Temperature Sensor 1 Plausbilly	Ismperature sensor - Intake-air temperature sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately. Termina	Time condition: - None Other conditions: 15 - none - None - None	NO	Read test data block; ID 5851 N	Defective wing hameas between DME and intake-air temperature sensor Intake-air temperature sensor defective Defective DME	- Check wiring harness between DME and intake- air temperature sensor - Replace intake-air temperature sensor - Replace DME	lamp: off - US electronic engine power reduction: off - CC message: none	Possible apparent symptoms: none Engine runs roughly	Breakdown notice: None	Nora
		the intake-air temperature on the engine-side of the air fifter is more than 24°C above the intake-air temperature before the throttle valve.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V					ECE emissions warning lamp: on			
		Potential problem source(s): - Defective wiring harness		v Temperature conditor: - None Time condition: - None					List winned in winning     Listy: on     - ECE electronic engine     power reduction: on     - CC message: on     - US emissions warring			
MEV017.2 Intake at Importance service, planshilly. The diagonalic function monitors the index-air INDEX0. 50/2011 Intake at Importance to high Americanism is detect insteaded high layers. P127	Istalite Air Temperatures Top High Istalite Air Temperatures 1 General	between DME and intake-air temperature sensor - Intake-air temperature sensor defective	This fault is logged in the control module's fault memory immediately. note	Other conditions: - Engine on - Vahide speed in excess of 40 km/h - None - None	NO	Read text data block; ID 5851 N	Defective wiring harmans between DME and intake-air temperature sensor     Intake-air temperature sensor defective     Defective DME	Check wiring harness between DME and intake- air temperature sensor     Replace intake-air temperature sensor     Replace DME	lamp: off - US electronic engine power reduction: off - CC message: none Ac	Possible apparent symptoms: tive in US only Engine runs roughly	Breakdown notice: None	Non
		the intake-air temperature on the engine-aide of the air filter is more than 39°C below the intake-air		Voltage condition: - Onbound electrical system voltage between 0 V and 16					- ECE emissions warning			
		temperature before the throttle value.		V Temperature condition: - None - Tome					lamp: on - ECE electronic engine power reduction: on - CC message: on			
MEV017.2- Intake air temperature servor, plausibility: The disgocatic function monitors the intake-air		Defective wiring harness     between DME and intake-sir     temperature sensor     Intake-sir temperature	This fault is logged in the control module's fault	-None Other conditions: -Engine on -Vehicle speed esceeds 40		Read test data block;	Defective wring hameas between DME and intake-air temperature sensor     Intake-air temperature sensor defective	Check wiring harness between DME and intake- air temperature sensor     Replace intake-air temperature sensor	- US emissions warning lamp: off     - US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
Statoo Crazoo 10713. Inide di temperatuk ku kor temperatuk ki deta ingkushki ke fauna. P11C3	I töllek Alt Terzesshan Too Low I töllek Alt Terzesshan 1 General	sensor defective the charge-air temperature exceeds an average figure from several temperatures during cold starts.	memory immediately. none	Innh for at least 2 minutes - None - None	NO	ID 5851 N	- Defective DME	- Replace CME	- CC message: none Ac	Brigher Local receptly	None	Nicos
		during cold starts. Potential problem source(s): - Defect in wiring hamess between DME and charge-air		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V					MT10 ELC ECE emissions warning large: eff ECE dictoric engine power reduction: on - CC message: on MT11 US:			
The diagnatic function montow the charge-air		imperature sensor - Charge-air temperature sensor defective - Charge-air temperature	This fault is logged in the	V Temperature conditor: - None Time condition: - 21 acc. after engine start			Defect in wiring hameas between DME and charge-air temperature sensor Charge-air temperature sensor defective Charge-air temperature sensor has been	Check wiring harmass between DME and charge-air temperature sensor	- US electronic engine power			
ME(2017.2- NR0200 0x202C 101716 Charge air Isropeniutes seaux, cold taint: Isropeniutes to delet accessively high values MR0200 0x202C 101716 Charge air Isropeniutes too high Charge air Isropeniutes too high	Cold Start Charge Air Temperature Too High (Bark 1) Charge Air Temperature Cold Start	sensor has been tampered with the charge-sir temperature is below an average figure from	control module's fault memory immediately. none	Other conditions: - Cold engine start - None - 21 sec. after engine start	NO	Read test data block; ID 581E N	tempered with - Defective DME	Replace charge of temperature sensor     Replace DME	reduction: on - CC message: on	Possible apparent symptoms: none Reduced power	Breakdown notice: Standard EML Teat	None
		several temperatures during cold starts. Potential problem source(s):		Voltage condition - Onboard electrical system voltage between 9 V and 16					MY10 ECE: - ECE emissions warning lamp: off - ECE electronic engine			
		Defect in wiring harness between DME and charge-air temperature sensor     Oharge-air temperature		voltage between 9 V and 95 V Temperature conditor: - None Time condition:			Defect in wring harness between DME and charge-air temperature sensor		ECE electronic engine power reduction: on CC message: on MY11 US: US emissions warning			
MEVD17.2- INCOD Do2DD 10717 Charge-ait temperature sensor, cold stat: DN0000 Do2DD 10717 Charge-ait temperature so have Charge-ait temperature cold stat: DN0000 D02DD 10717 P1000 Anti- DN0000 Anti- DN000 Anti-	Cold Bast Charge Air Temperature Too Low Charge Air Temperature Cold Bast	between DME and charge an temperature sensor - Charge-air temperature sensor defective - Charge-air temperature sensor has been temperature with	This fault is logged in the control module's fault memory immediately. non-	Time condition: - 21 sec. after engine start Other conditions: - Cold engine start - None - 21 sec. after engine start	NO	Read test data block; ID 581E N	Defect in wiring humass between DME and charge-air tempetature sensor - Charge-air temperature sensor directive - Charge-air temperature sensor has been targered with - Defective DME	Check wiring harness between DME and charge-air temperature sensor     Replace charge-air temperature sensor     Replace DME	lamp: on - US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: none Reduced power	Breakdown notice: Standard EML Teat	Norm
		the voltage of the intelo-air temperature sensor exceeds 4.85 V.		Voltage condition:					- ECE emissions warning lamp: on			
		Potential problem source(s): - Defect in wiring harness between DME and charge-sin temperature sensor - Charge-sit temperature sensor defective		Obtained electrical system     voltage betavens 9 V and 16     V     Terepresture condition:     +/one			Defect in wiring harness between DME and charae-air temperature sensor		EUS electronic engine     power reduction: on     - CC message: on     - US emissions warring			
MEV017.2         Charge at Imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite function monitors the upper values in the ratio at imprentize samue; electrical: Diru         The disposite samue; electrical: Diru           B00000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000         0.02000	Charge Air Cooler Temperature Sensor Cleval Tolog Bank 1) Charge Air Temperature Sensor Charge Air Electrical	Charge-air temperature     sensor has been temperature	This fault is logged in the control module's fault memory immediately. Termina	Time condition: - None Other condition: 15 - none - None - None	NO	Read text data block; ID 58D7 N	charge-air temperature sensor - Charge-air temperature sensor defective - Charge-air temperature sensor has been tempened with - Defective DME	Check wiring harmass between DME and charge-air temperature sensor     Replace charge-air temperature sensor     Replace DME	lamp: on - US electronic engine power reduction: on - CC message: on	Possible apparent symptoma: none Reduced power	Breakdown notice: Standard EML Text	Norw
		with the voltage of the intake-air temperature sensor is less than 0.17 V.		Voltage condition:					- ECE emissions warning lamp: on			
		Potential problem source(s): - Defect in wiring harness between DME and charge-air temperature sensor		- Onboard electrical system voltage between 9 V and 16 V			- Defect in wiring harmess between DME and		ECE electronic engine power reduction: on CC message: on			
MEV017.2- Charge at Improving survey shares at Improving the other intervention of the lower vehicle first of the intervention of the server o	Onarge Air Cooler Temperature Sensor Circuit Onarge Air Temperature Sensor Charge Air	Charge-air temperature sensor defective - Charge-air temperature sensor has been temperature sensor has been temperature	This fault is logged in the control module's fault	I emparante condition: - None Time condition: - None Cher conditions:		Read test data block;	Charge-air temperature aeroso     Charge-air temperature aeroso     Charge-air temperature aerosor defective     Charge-air temperature sensor has been     tamperad with	Check wiring harness between DME and charge-air temperature sensor     Replace charge-air temperature sensor	- US emissions warning lamp: on - US electronic engine power reduction: on	Possible apprent symptoms: none Reduced power	Breakdown notice: Standard EML Text	
BN2020 0x2121 10721 croatile werk server on the argine odds of the air filler. P007C	Low (Bark 1) Cooler Electrical	with the difference between the new voltage value and the low-pass-filtered voltage > 0.6 V.	memory immediately. Termina	15 - KONE - KONE - KONE	NU	N 5607	- Defective DME	- Replace DME	- CC message: on - ECE emissions warning	Pore Postular power	Standard EVAL 1441	NONE
		0.6 V. Potential problem source(s) - Defect in wiring hamess between DME and charge-air		Voltage condition: - Orbitant districtual system voltage between 9 V and 95 V tage between 9 V and 95			- Defect in wiring harness between DME and		ECE electronic engine     power reduction: on     CC message: on			
The dispositic function months in the voltage of bit tidate at interpretation sensor on the impose MEV017.2- Onego air temperature sensor, electricat: a dir of a set Tiller to addit proper bit voltas	Charge Air Cooler Temperature Sensor Circuit Charge Air Temperature Sensor Charge Air	Imperature sensor     Onarge-air temperature     sensor defective     Onarge-air temperature	This fault is logged in the control module's fault	Temperature conditor: - None Time condition: - None Other condition:		Read text data block;	- Orange-air temperature sensor     - Charge-air temperature sensor     - Charge-air temperature sensor defective     - Charge-sit temperature sensor has been     tampeed with	Check wiring harmass between DME and charge-air temperature sensor     Replace charge-air temperature sensor	- US emissions warning lamp: on     - US electronic engine power reduction: on	Possible apparent symptoms:	Breakdown notice:	
BND000     0-22E2     10722     Signaf not plausible     Perspectived level.     P0078	Range/Performance (Bank 1) Cooler Plausibility	sensor has been tempered The fault is recognized when the boost-air temperature is more than 24°C above the intake-air temperature.	memory immediately. Termina	15 - none	NO	ID 56D7 N	- Defective DME	- Replace DME	- CC message: on	none Reduced power	Standard EML Text	None
		Potential problem source(x): - Defect in wiring harness		Temperature conditor: - None Time conditor: - None					MY10 ECE: - ECE emissions warning lamp: off - ECE electronic engine power reduction: on			
		between DME and charge-air temperature sensor - Charge-air temperature sensor defective		Other conditions: Other conditions: above 40 km/sh for at least 2 minutes to advance the charges			Defect in wining harness between DME and charge-air temperature sensor	- Check wiring harmans between DME and	- CC message: on MY11 US: - US emissions warning			
ME1017.5 L B0000 0:20254 19724 Charge at Imponiton ansacr, plausibly: The disposit function modesn the dissipnant memory and the second	Charge Air Cooler Temperature Too High (Bank 1) Charge Air Temperature General	Charge-air temperature sensor has been tempered with Defective DME	This fault is logged in the control module's fault memory immediately. non-	ar tempenature, then allow the engine to tild for at least 2 minutes to allow the charge- air tempenature to rise again. None - None Woltes condition	NO	Read test data block; ID 581E N	Charge-sit temperature sensor defective     Charge-sit temperature sensor has been     tampered with     Defective DME	Check wiring harmass between DME and charge-air temperature sensor     Replace charge-air temperature sensor     Replace DME	lamp: on - US electronic engine power reduction: on - CC message: on	Possible apparent symptoms: none Reduced power	Breakdown notice: Standard EML Text	Nores
		The fault is recognized when the voltage of the charge-air temperature sensor does not		Voltage condition: - Orboard electricial system voltage between 9 V and 95 V Temperature condition:								
		change by at least 0.005 V. Potential problem source(s): - Defect in wiring harness		- Engine warmed to normal temp, above 80 °C Time condition: - 27 sec. after maching engine temperature of 80 °C					ECE emissions warning lamp: on     ECE electronic engine			
		Potential problem source(s): - Defect in wiring harmeas between DME and charge-air temperature sensor - Charge-air tempenature sensor defective - Charge-air tempenature sensor has been tempend with		2.7 Mar. June Tables of the Sharper anyon improvides of 50° C     Down which is at a particle     down of block of the site and 2     prioritize to reduce the Antoper     al improvation, then allows     prioritize to this for a limit - Engine warmed to record     prioritize to this for all and - Engine warmed to record     prioritize to the site that the allows     prioritize to the for allows     prioritize to the formation     prioritize to the formation     prioritize to the damase.			Defect in wining harmess between DME and charge-air temperature sensor		cover reduction: on - CC message: on - US emissions warning			
MEVOTI25 br225 br225 Charge-air temperatura sensor, planability: The dispositic function monitors the disquark B00000 br225 br275 Egypt frozen temperatura amount for an investidial arguit. Proble	Charge Air Coder Temperature Serrer Signal Charge Air Temperature Serrer Charge Air Dock (Bank 1) Coder Electrical	- Charge-air temperature     sensor has been tempered     with     - Defective DME     The fault is recognized when	This fault is logged in the control module's fault memory immediately. none	minutes to reduce the charge- air temperature, then allow it. Engine warmed to normal the engine to idle for at least 2 minutes to allow the charge (temperature, more than 80°C) engine temperature of 80°C - Orbitized electrical system	C NO	Read test data block; ID 551E N	charge-air tempensture sensor - Charge-air tempensture sensor defective - Charge-air temperature sensor bas been tampered with - Defective DME	Check wining harness between DME and change-air temperature sensor     Replace charge-air temperature sensor     Replace DME	US emissions warring lamp: on US electorcic engine power reduction: on - CC message: on Ac	Possible apparent symptoms: crive in US only Reduced power	Breakdown notice: Standard EML Test	Nore
		the boost-air temperature rises by at least 39 °C within 10 sec.		voltage between 9 V and 16 V Temperature condition: None					MY10 ECE: - ECE emissions werning			
		Potential problem source(s): - Defect in wiring harness between DME and charge-air temperature sensor		Time condition: - None Other conditions: Dhine vehicle at a speed					MY10 ECE: - ECE ensistence werning lamp: off - ECE electronic engine power reduction: on - CC message: on MY11 US: 18 exploritementment			
	Churse Air Cooler Terrosetates Sensor Carolt Churse Air Terrosetates Sensor Churse Air	Charge-air temperature sensor defective     Charge-air temperature sensor has been tampered	This fault is logged in the	above 40 km/h for at least 2 minutes to reduce the charge- ait temperature, then allow the engine to lide for at least			Defect in wing hameas between DME and charge-air temperature sensor - Charge-air temperature sensor defective - Charge-air temperature sensor has been	Check wiring harriess between DME and charge-air temperature sensor	- US electronic engine power			
MCV017-2         Drage-air temperature sensur, gradient: Nav.         The disputitive function monitors the damp-air temperatures for excessively right ress.         P0078           MCV007-0         62765         10728.         100 hgb         temperatures for excessively right ress.         P0078	Ohege AF Coller Temperature Sensor Circuit     Ohege AF Temperature Sensor Charge AF     Renge Performance (Back 1)     Colder     Pleasability	with - Defective DME The fault is recognized when the boost-air temperature rises by at least 39 °C within	control module's fault memory immediately. none	2 minutes to allow the charge- air temperature to the again None - None - None - Orboral electrical system - Voltage between 9 V and 16 - V	NO	Read test data block; ID 581E N	- tampered with - Defective DME	Replace charge-air temperature sensor     Replace DME	reduction: on - CC message: on	Possible apparent symptoms: none Reduced power	Breakdown notice: Standard EML Text	Nora
		10 sec. Potential problem source(s): - Defect in wiring harness		V Temperature condition: - None Time condition: - None					MY10 ECE: - ECE emissions warning lamp: off - ECE electronic environ			
				- None Other conditions: Drive vehicle at a speed above 40 km/s for at least 2 minutes to reduce the charge-			- Defect in wining harness between DME and charge-air temperature sensor		ECE electronic engine power reduction: on CC massage: on MY11 US: US: US:			
NEV-017-2 Charge-air tempentive senser, gudart Riss. The dispositic function motion the sharge-air B00000 0-02285 10728 too top too top	Charge Ale Coder Temperature Sensor Gradient Charge Ale Temperature Sensor Charge Air Temperature Sensor Charge Air Pleasability	Immentates and charge- Immentates and charge- Charge-air temperature sensor defective - Charge-air temperature sensor has been tampered with - Defective DME	This fault is logged in the control module's fault memory immediately. none	ministat la nañaza Da charga- al krejako, Ran allo krejove de angins lo ide for al least 2 minutes lo allon de charga- ar krejenalne fo na again - None - None	NO	Read test data block; KD 581E N	charge-är terspensture samor - Charge-är tempenture samor defective - Charge-air temperature samor has been tampend with - Defective DME	Check wining harness between DME and change-air temperature sensor     Replace charge-air temperature sensor     Replace DME	US electronic engine power     reduction: on     - CC message: on	Possible apparent symptoms: none Reduced power	Breakdown notice: Standard EML Test	Norm
		The fault is recognized when a short circuit to ground is		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V					lamp: on - ECE electronic engine power reduction: on - CC message: on			
MEV017-2 Papelion system, righted r 1, statistics: High The dispositic function monitors statesi-	Cylrider 1 High Pessare Inputor High Side	a short circuit to ground is present. Potential problem source(s): - Defective wring haness - Defective injector	The diagnostic fault code is entened when the fault occurs 3 times in sequence with no interruption on a	Temperature condition: - None Time condition: - None Other conditions:			- Defective wiring harness - Defective lejictor	Check wining harness between DME and injectors 1 and 2, replace injector 1, if fault remains switch the new injector to cylinder 2.     Replace the DME control module only if the	US emissions warning lamp: on - US electoric engine power reduction: on	Possible apparent symptoms: Engine runs roughly and can stati in extreme	Breakdown notice:	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are sharps logged for both injectors, although usually only one is
MEXIOT2 beliefun system, cyliner 1, scinasten: High The depender function motions control- <u>BIO2000</u> 0:2027 10700 voltee auto, mort and and the scinario scinasten and the scinario scinari scinario scinario sci	Cylinder i 11gb Peasare lytechr High Sale Decel Low Irestor High Sale Short to Geored	- Defective DME     The fault is recognized when     the outside temperature	with no interruption on a aingle cylinder. none	- Engine CN i None None Volage condition:     - Onbard electrical system	NO	none N	- Defective Injector - Defective DME	<ul> <li>Replace the DME control module only if the fault is still present continuously.</li> </ul>	- CC message: on lamp: on - ECE electronic engine	Engine runs rougny and can stall in extreme none clases	Linging fault	both injectors, although usually only one is detective.
		remains more than 20°C above the model value for longer than 14 aec. Potential problem source(s):	The disgnostic field roots is	volkage ketnesen 9 V and 15 V Hereparature condition - None Three condition: - None				Read out outside temperature with tester and assess plausibility     Visual inspection of outside temperature sensor	power reduction: on - CC message: on - US emissions werning barry: on - US electronic engine power			The following conditions can lead to an incomet diagnosis: Battery change or defective battery - Engine heated by excondary source, such as
MEVIOT7.5     BO207 10751 Update system, cylinde 1 animitation. Law The dispendie function monitors canted-     BO2020 0x207 10751 voltage adds, abort is positive animitation of the pipertrix like-voltage adds.     P2102	Cyloder 1 High Pessare Hjecks Low Sole Chroad High Pessare High High Higher Low Sole Sheet to Balt	Potential problem source(s): - Defective wiring hamess - Outside temperature sensor defective	The diagnostic fault code is logged when the fault remains present for longer than 1 min. none	- Engine ON - None - None	NO	none N	- Defect in wiring harmass     - Outside temperature sensor defective	Visual inspection of outside temperature sensor     Check wing harmons between the instrument cluster and the outside temperature sensor	- CC message: on	Possible apparent symptoms: Engine runa roughly and can stall in extreme cases	Breakdown notice: Engine fault	Battery change or detective battery     Engine heated by secondary source, such as     succitary heater     Sensor frozen.
		The fault is recognized when a short circuit to positive is present.		Voltage condition: - Dribcard electrical system voltage between 5 V and 55 V Temperature condition:					lamp: on - ECE electronic engine power reduction: on - CC message: on			
MEV0172- Neiclion system, cylinder Lactivation: High The dispositic function monitors control-	Cylodar 1 High Pressues Injector High Sida	Potential problem source(x): - Defective wiring hameas - Defective injector	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interruption on a	- None Time condition: - None Other conditions:			- Defective wiring hameas - Defective injector	Check wiring harness between DME and injectors 1 and 2, replace injector 1, if twik remains switch the new injector to cylinder 2 Replace DME only if the fault remains present	- US emissions warning lamp: on - US electronic angine power reduction: on	Possible apparent symptoms: Engine runa roughly and can stall in extreme	Breakdown notice:	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
BI2000         0x200         10722         voltage ads, short to positive         achieter of the signator's high-voltage adds.         P3150	Citruit High Director High Side Short to But	- Defective DME	aingle cylinder. none	- Engine CN     - None     -	NO	none N	- Defective DME	continuously	- CC message: on lamp: on	Done Clases	Engine fault	delective.
		The fault is recognized when a short circuit to ground is present. Potential problem source(s):	The diagnostic fault code is entered when the fault	V Temperature condition: • None Time condition: • None				Check wiring harness between DME and injectors 1 and 2     Replace injector 1, if the defect remains present respond by switching the new injector to	- US emissions warring     lamp: on			Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEV0172- B02000 0x22401 10733 voltage sele, short crucil to service and the spectra' how voltage sele. P2101	Cylinder 1 High Pessare byector Low Side Chroat Low Side Short to Ground	Defective wiring harness     Defective injector     Defective DME	entend when the fault occurs 3 times in sequence with no interruption on a single cylinder, non-	Other conditions: - Ergins ON - None - None Voltage condition:	NO	none N	- Defective wiring hameas - Defective Injector - Defective DME	present respond by switching the new injector to cylinder 2. - Replace the DME control module only if the fault is still present continuously.	- US electronic engine power reduction: on - CC message: on lamp: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	shared DME driver circuits. This means that disprcatic fault codes are always logged for both injectors, eithough usually only one is defective.
		The fault is recognized when a short circuit to ground is present.		Onboard electrical system voltage between 9 V and 15					ECE electronic engine power reduction: on CC message: on			hjectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
MEV-077-2 and the second secon	Cylinder 2 High Pressure Injector High Side	Potential problem source(s): - Defective plug or wining harness - Defective injector - Defective Injector	This fault is logged in the control module's fault	V V V V V V V V V V V V V V V V V V V	10		Defective plag or winning hermess     Defective injector     Defective injector	Inspect plags/wining harmass between DME and injector 2, replace injector 2. - Replace DME only the fault remains	US emissions warning lamp: on     US electronic engine power neduction: on     Comparements	Possible apparent symptoms: Engine runa roughly and can stall in extreme	Breakdown notice:	rejectors 1 and 6, and 5 and 4, and connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although saturally only one is defactive. When interchanging positions use injectors operated by a DME driver circuit that
80200 0x242 10754 voltage side, thoritie ground activation of the injector's high-voltage side. IP3152	Circuit Low Injector High Sale Short to Ground	- Defective DME		Voltage condition: - Onboard electrical system voltage between 9 V and 15	1967	N	- Defective DME	continuously	CC massage: on     lamp: on     ECE electronic engine     power reduction: on     - CC massage: on	none clases	Engine fault	orly activates one injector!
		a short circuit to positive is present. Potential problem source(s): - Defective wiring harness	The diagnostic fault code is entered when the fault occurs 3 times in sequence	v Temperature condition: - None Time condition:			- Defective wiring humans	Inspect wing harress between CME and     interior 2, renters interior 2.	- CC message: on     - US emissions warning     lamp: on     - US electoronic engine power	Possible apparent symptoms:		hjectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVOT2- B02000 0-2502 10725 volume and when your provide a school and a school and and a school	Cylondr 2 High Pressure Viector Low Side Circuit High	Defective witing harness     Defective injector     Defective DME	occurs 3 times in sequence with no interruption on a single cylinder. none	- None     Ober anditions:     - Engine CN     - None     Values condition:     Ober detected system	NO	none N	- Defective wring hanness - Defective Hindor - Defective DME	injector 2, replace injector 2. - Replace DME only if the fault remains continuously	US electronic engine power     reduction: on <u></u>	Possible apparent symptomic Engine runa roughly and can atall in extreme ciases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is detectors.
		The fault is recognized when a short circuit to positive is present.	The diagnostic fault code is	voltage between 9 V and 16 V					power reduction: on - CC message: on			Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that discorticit fault codes are always boost for
ME/V017-2 Pagedios system, rylnolar 2, activation: High The diagonalic function monitors control- DB0000 0x26VI 10275 voltage alut: given by partice of an internation of the injection's high-voltage adus. P215	Cyliniar 2 High Peasure High State Cricoli High I High State Fight State Shurt to Bate	Potential problem source(s): - Defective wiring harness - Defective injector - Defective DME	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interruption on a single cylinder. non-	None     None     None     None     None     None     None	NO	none N	- Defective wiring harness - Defective injector - Defective IME	<ul> <li>Inspect wiring harness between DME and injector 2, replace injector 2.</li> <li>Replace DME only if the fault remains continuously</li> </ul>	US emissions warning lamp: on     US electronic engine power reduction: on     - CC message: on	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	Figuedore 1 and 6, and 5 and 4, are connected to ahrered DME driver circuits. This means that despreads fault codes are always logged for both rejectors, withough usually only one is defactive. When interchanging positions use injectors operated by a DME driver circuit that only activations are injector.
	show regrupter and short to delt	Annual Line	non	- NOTE - NOTE	1.00	, - JN	- Dreet and Links	an to reveally	and converget. MI	Land BE	sogen onli	and a statement over a pector.

		The least	It is necognized when t circuit to ground is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 95 V					lamp: on - ECE electronic engine power reduction: on - CC message: on				intectors 1 and 6, and 3 and 4, are connected to
MEV017.2. Injection system, cyfrdar 2, activation: Loar The diagnostic BNGDD 0.02A/25 12757 vellaga sáde; abort cincus to aerh activation of the tr	function monitons control- pactor / toev-voltage adu. P 2105 Crust Law	Potential p - Defection	present. Il problem source(s): clive wiring harness efective injector Defective DME	The diagnestic fault code is entered when the fault occurs 3 times in sequence with no interruption on a single cylinder. none	Temperature condition: - None Time condition: - None Other conditions: - Engine ON - None	N		- Defective wiring harness - Defective injector - Defective DME	Inspect wiring harness between DME and injector 2, replace injector 2.     Replace DME only if the fault remains	US emissions warning larm: on     US electronic engine power reduction: on     CC message: on		Possible apparent symptoms: Engine runs roughly and an stall in extreme	Breakdown notice: Engine fault	shared DME driver circuits. This means that diagnostic hulk codes are always logged for both injectors, although usually only one is defective. When inferchanging positions use injectors operated by a DME driver circuit that
BNADU UKAVA 1013/ Vetage lisk, sint drait b ears acrision of the r	njuori i ok-kongo taak. P 3100 - Croz Low	The fault is a short of	It is recognized when t circuit to ground is present.	ange cylnow. none	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V	- 1078	17008 /4	- Descrive Date	Check wing turnass between DME and	- CC massage: on - ECE electronic engine power reduction: on - CC massage: on	nore	28365	Engine race	créy activates one injector!
	function monitors control- control biological and the control of t	Potential - Defection - Defe	al problem source(s): dive wiring harness of efective injector	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interruption on a sincle criticher more	Temperature condition: - None Time condition: - None Offer conditions: - Engine CN - None	-None NO	norma N	- Defective wining humans - Defective injector - Defective DMI	injectors 3 and 4 - Replace injector 4, if the detect remains present respond by switching the new injector to cylindie 3. - Replace DME only if the fault remains present creditionally and the fault remains present	US emissions warning lamp: on     US electronic engine power reduction: on     Communities: on		Possible apparent symptoms: Engine runs roughts and can stall in extreme	Breakdown notice:	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
RN2000 0x2A95 10758 voltage adds abort in prevent and indication of the in	geststr/t high-vollege able. P3155 Circuit Low.	The fault i	It is recognized when circuit to positive is present.	aingle cylinder. none	Voltage condition: - Onboard electrical system voltage between 9 V and 95 V				continuously	Imp: on - ECE electronic engine power reduction: on - CC message: on	1008	CRASE	Engine fault	defective.
MEVD17.2- BN2000 0-22407 10750 voltage ade, short to positive activation of the s	function monitors control- papetrin liber-college alde. P3110 Cricoli High Pressure Injuctor Low Sale Cricoli High	Potential ; - Defection - Defe	efective Injector n Defective Injector n	This fault is logged in the ECU fault memory if it memory present for longer than 3 sec. none	Imparative Consister     None     Time condition:     None     Oher condition:     Engine ON     None	N	N	- Defective wring hanness - Defective injector - Defective DME	Read out and work through diagnostic fault codes in instrument duater and in junction box	US emissions warning lamp: on     US electronic engine power reduction: on     CC message: on		Possible apparent symptoms: Engine runs roughly and can statil in extreme cases	Breakdown notice: Engine fault	Princtors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, withough usually only one is detective.
	upped a sum rouge and rest	The fault is a short of	It is recognized when circuit to positive is		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V				- Check wiring harmass between DME and	lamp: on - ECE electronic engine power reduction: on - CC message: on	Track Bit		Long a state	United to the second se
MEVD17.2- BN2000 0-22405 10750 voltage aids; short to positive activation: High The diagnostic of the in	function monitors control- geostri high-veilinge side. P3156 Circuit High	Potential p - Defection - Defection	present. Il problem source(s): dive wiring hamess efective injector Defective DME	The diagnostic fault code is entered when the fault occurs 3 limes in sequence with no interruption on a single cylinder. none	Temperature condition: - None Time condition: - None Other conditions: - Engine CN - None	-None NO	N	- Defective wiring harness - Defective injector - Defective IDMF	injectors 3 and 4 - Replace injector 4, if the defect remains, present respond by webhing the new injector to cylender 3. - Replace DME only if the fault remains present continuously	US emissions warning lamp: on     US electronic engine power reduction: on     CC message: on		Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, withough usually only one is defective.
		The fault i	It is recognized when t circuit to ground is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V				- Check wining harmass between DME and	lamp: on - ECE electronic engine power reduction: on - CC message: on				
MEV017.2- IN2000 0x2X09 10701 voltage side, short score to each activation of the s	hardion moniton control- opustra'i law-officia ai Aligh Pressure injector Low Edie opustra'i law-officia ai Aligo Circuit Low	Potential - Defect	al problem source(x): clive witing hameas or efective injector Defective DME	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no intercuption on a airgle cylinder, none	Temparature condition: - None Time condition: - None Other conditions: - Engine CN - None	- None NO	N	- Defective wining harmess - Defective injector - Defective DME	Replace injectors 3 and 4     Replace injector 4, if the defect remains present respond by watching the new injector to cylender 3.     Replace DME only if the fault remains present continuously.	US emissions warning lamp: on     US electronic engine power reduction: on     CC massage: on	2276	Possible apparent symptoms: Engine runs roughly and can stall in extreme	Breakdown notice: Engine fault	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is detective.
			It is recognized when t circuit to ground is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 95 V V				Check winnig harmass between DME and injectors 3 and 4     Replace injector 4, if the detect remains	Lamp: on - ECE electronic engine power reduction: on - CC message: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000 0x2A0A 10762 voltage side; short to growd activation: High	function monitors control- geostri high-voltage alde. P3158 Circuit Daw	- Defe	al problem source(x): ctive plug or wiring harness efective injector Defective DME	This fault is logged in the control module's fault memory immediately. none	None     Other     Condition:     One     Other     Condition:     Condition:     Ergine ON     None	- None NO	none N	- Defective plug or wining hermess - Defective injector - Defective DME	Replace injector 4, if the defect remains present respond by switching the new injector to cylinder 3.     Replace DME only if the fault remains present continuously	US emissions warning lamp: on     US electronic engine power reduction: on     CC message: on	none	Possible apparent symptoms: Engine runs roughly and can stall in sofreme cases	Breakdown notice: Engine fault	anime of the draw scalar in the mean of the diagnostic fluit codes are always logged for both injectors, ethough usually only one is defective. When interchanging positions use injectors operated by a CME driver circuit that only activates one injector!
		The fault is a short of	It is recognized when circuit to positive is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V					lamp: on - ECE electronic engine power reduction: on - CC message: on				Frjectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
	function monitors control- Distriction Tomitors control- Distriction Tomics Tomic	Potential - Defection - Defe	al problem source(s): dive witing hameas efective injector Defective DME	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interuption on a aircgle cylinder. none	Temperature condition: - None Time condition: - None Other conditions: - Engine CN - None	- None NO	none N	- Defective wiring hamess - Defective injector - Defective DMD	Check wining harmass between DME and injectors 4 and 3, replace injector 4, if that remains and/ch the new injector to cylinder 3 Replace DME only if the fault remains continuously.	US emissions warning lamp: on     US electronic engine power reduction: on     CC message. on	norm	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, ellhough usually only one is defective. When interchanging positions use injectors operated by a CME driver circuit that only activates one injector!
			It is recognized when circuit to positive is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V V Terreserature condition:					lamp: on - ECE electronic engine power reduction: on - CC message: on				Frjectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- NEXXXX 0x2AXC 10764 voltage adds, short to positive activation of the in	function monitors control- gestrin high-veilinge side. P3150 Circuit High State	Potential ; - Defection - Defection	al problem source(x): dive witing harness	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interruption on a single cylinder. none	- None Time condition: - None Offer conditions: - Engine CN - None	- None NO	none N	- Defective wiring hamess - Defective injector - Defective DME	Check wintrg harmass between DME and injectors 4 and 3, replace injector 4, if thus remains awith the new injector to cylinder 3 Replace DME only if the fault remains continuously.	US emissions warning lamp: on     US electronic engine power reduction: on     _CC message: on	nore	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is defective. When interchanging positions use injectors operated by a CME driver circuit that only activates one injector.
		asterto	It is recognized when t circuit to ground is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 95 V Temperature condition:					lamp: on - ECE electronic engine power reduction: on - CC message: on				hjectors 1 and 6, and 3 and 4, are connected to
MEV017.2- NV2000 Gx2AD 10705 voltage side, short circuit to each activation: for	hardion monitors control- ojacarin low-chinge side. P3113 Circat Low	Potential p - Defecto - Defe	al problem source(s): dive wiring hamess efective injector Defective DME	The diagnostic fault code is entened when the fault occurs 3 times in sequence with no interruption on a aingle cylinder. none	- None Time condition: - None Other conditions: - Engine ON - None	- None NO	rone N	- Defective wiring hamean - Defective injector - Defective DME	Check wintrg harness between DME and injectors 4 and 3, replace injector 4, if taut remains awitch the new injector to cylinder 3 - Replace DME only if the fault remains continuously	US emissions warning lamp: on     US electronic engine power reduction: on     CC message: on	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme clases	Breakdown notice: Engine fault	shared Date Griver creater. In a means the diagnostic fault codes are always logged for both injectors, eithough usually only one is defective. When interchanging positions use injectors operated by a CNM driver circuit that only activates one injector!
		The fault is a short of	It is recognized when t circuit to ground is present.		Voltage condition: - Oxboard electrical system voltage between 9 V and 15 V V Temperature condition: - None					lamp: on - ECE electronic engine power reduction: on - CC message: on				
MEVD17.2- BN2000 Gx2ACE 10766 voltage adds after to ground activation of the in	function monitors control- ngedar's high-rokature logicator High Solar Occusi Low	- Defectiv	al problem source(s): e dive witing hanness of efective injector se Defective DME	The diagnostic fault code is entered immediately when the fault occurs 3 times in seguence with no interruption on a single cylinder. none	Time condition: - None Other conditions: - Engine CN - None	- None NO	none N	- Defective wiring harmess - Defective injector - Defective DME	Check winng harmass between DME and injectors 3 and 4, replace injector 3, if taut remains switch the new injector to cylinder 4	US emissions warning lamp: on     US electronic engine power reduction: on     CC message: on	Done	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Eingine fault	hijectors 1 and 2, and 3 and 4, are connected to shared DML driver circuits. This means that diagnostic fault codes are shared logged for both injectors, sithough casality only one is detective.
		The fund to a short of	It is recognized when circuit to positive is present.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition:					lamp: on - ECE electronic engine power reduction: on - CC message: on				connected to shared DME driver circuits. This means that dispicatio fault codes are always logged for both hijectore, although usually only one is defective. NSS: Injectors 1 and 6, and 3 and 4, are
MEV017.2- BN2000 0x2AdF 10767 voltage adds, short to positive activation for in	function monitors control- Injector 1 low-ostinge adde. P3118 Critical High	Potential p - Defection - Defe	al problem source(x): dive witing hamess or efective injector Defective DME	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interruption on a aingle cylinder. none	None     Time condition:     None     Other condition:     Other condition:     Ergine CN     None	- None NO	nons N	Defective wiring harmess     Defective injector     Defective DME	Check wintig harmess between DME and injectors 3 and 4, replace injector 3, if stuit remains awhich the new injector to cylinder 4 Replace DME only if the fault remains continuously	US emissions warning lamp: on - US electronic engine power reduction: on - CC message: on	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	N25: Injection 1 and 6, and 3 and 4, are connected to shared DME drive circuits. This means that diagnostic full codes are always logged for both njectors, although usually only one is delicitive. When interchanging positions tase injectors operated by a DME drive circuit
		a short de	It is recognized when circuit to positive is present.	The diagnostic fault code is	Voltage condition: - Onboard electrical system voltage between 9 V and 95 V Temperature condition: - None				- Check wiring harmons between DME and	lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions warning				Frjectors 1 and 2, and 3 and 4, are connected to
	function monitors control- cylinder 5 High Pressure Injector High Side pandor () high-rositives Joint		al problem source(s): dive wiring harmess efective injector Defective DME	entered immediately when the fault occurs 3 times in sequence with no interruption on a single cylinder. none	Time condition: - None Other conditions: - Engine ON - None	- None NO	none N	Defective wiring harmess     Defective injector     Defective DME	injectors 3 and 4, replace injector 3, if halt remains switch the new injector to cylinder 4 - Replace DME only if the fault remains continuously	lamp: on - US electronic engine power reduction: on - CC message: on	0208	Possible apparent symptoms: Engine runs roughly and can stall in extreme Class.	Breakdown notice: Engine fault	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is detective.
		The fault is a short of	It is recognized when t circuit to ground is present.	The diagnostic fault code is	Voltage condition: - Oxboard electrical system voltage between 9 V and 95 V Temperature condition: - None					lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions warning				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- NEVD17.2- BN2000 0x2A11 10760 voltage adds abort drout to earth activation of the in	function monitors control- operator's low-rollage adds. P3117 Crost Low Side	Potential ; - Defectiv - Defectiv	al problem source(s): ctive wiring harness or	entend when the fault occurs 3 times in sequence with no interruption on a single cylinder. none	Time condition: - None Other conditions: - Engine CN Voltage condition:	- None NO	none N	Defective wiring harmess     Defective injector     Defective DME	Inspect wiring harness between DME and injector 5, replace injector 5.     Replace DME only if the fault remains continuously	lamp: on - US electronic engine power reduction: on - CC message: on lamp: on	none	Posable apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	both injectors, although usually only one is defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injector!
		a abert ci	It is recognized when t circuit to ground is present.	The diagnostic fault code is	- Onboard electrical system voltage between 9 V and 15 V				- Check wing harness between DME and	ECE electronic engine power reduction: on - CC message: on				Injectors 1 and 2, and 3 and 4, are connected to
MEVD17.2- BN2000 0c2A12 10770 votage add; short to ground activation of the in	hundion monitors control- gector's high-refuge side. P3164 Circuit Low	- Defectiv	al problem source(x): clive witing harness or efective injector Defective DME	The diagnostic fault code is entered when the fault cours 3 times is sequence with no interruption on a single cylinder. none	None     Time condition:     None     Other condition:     Ergine CN     CN     None     Voltes condition:     Voltes condition:	- None NO	none N	- Defective wiring harmess - Defective injector - Defective DME	Check wining harmans between DME and injectors 1 and 2, replace injector 2, if twit remains aroth-the new injector to cylinder 1 - Replace DME only if the fault remains continuously		none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	Pyectors 1 and 2, and 3 and 4, and considered on shared DME driver could. This means that diagnostic fault codes are always logged for both injectors, although usually only one is detective.
		a short de	It is recognized when circuit to positive is present.	The diagnostic fault code is	Voltage condition: - Onboard electrical system voltage barbers IV and 16 V Sengewature condition: - None Time condition:				- Check wing harress between DME and	larg: on - ECE electronic engine power reduction: on - CC message: on - US emissions warning				hjectors 1 and 2, and 3 and 4, are connected to
	function monitors control- injector's low-officer & High Pleasure Injector's Side injector's low-officer & High Pleasure Injector's Side	- Defectiv	al problem source(s): dive wiring hamess or efective injector Defective DME	entered when the fault occurs 3 times in sequence with no interruption on a aingle cylinder. none	- None Other conditions: - Engine CN - None Volkees condition:	- None NO	none N	Defective wiring hamess     Defective injector     Defective DME	injectors 1 and 2, replace injector 2, if fault remains available the new injector to cylinder 1. - Replace DME only if the fault remains continuously.	lamp: on - US electronic engine power reduction: on - CC message: on lamp: on	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme classes	Breakdown notice: Engine fault	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is defective.
			It is recognized when circuit to positive is present.	The diagnostic fault code is	Officiand electrical system voltage between 5 V and 55 V Temperature conditor: None Time conditor: None				- Check wiring harman between DME and	ECE electronic engine power reduction: on - CC message: on - US emissions warning				hjectors 1 and 2, and 3 and 4, are connected to
MEVD17.2- BN2000 0x2A14 10772 voltage aids, short to positive activation: High The disgnostic function of the in	function monitors control- leaders high-rollage adde. P3165 Chruit High Side Citruit High-	- Defe	al problem source(s): dive witing harness or efective injector Defective DME	The diagnostic fault code is entered when the fault cours 3 times is nequestore with no interruption on a aingle cylinder. none	- Engine ON - None	- None NO	none N	Defective wiring harmess     Defective injector     Defective DME	Check wiring harmass between DME and lejectors 1 and 2, replace lejector 2, if shult remains and/ch the new jelector to cylinder 1 - Replace DME only if the fault remains continuously.	US emissions warning lamp: on     US electronic engine power reduction: on     CC massage: on     lamp: on	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	Fijedon 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fluid codes are always logged for both injectors, although usually only one is defective.
		a short ci	It is recognized when t circuit to ground is present. If	The diagnostic fault code is	Voltage condition: - On-board electrical system voltage between 9 V and 96 V Temperature condition: - None Time condition:				Check winning harmass between DME and injectors 1 and 6     Replace injector 6, if the defect remains present respond by welthing the new injector to	lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions warning lamp: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both instance of threads and the area and
	function monitors control- instant i low-voltage stde. P3121 Circuit Low Side	Parlectiv     Defectiv	dive witing harmess of elective injector Defective DME	enhesed when the fault cocurs 3 times in sequence with no interruption on a single cylinder. none	None     Other conditions:     Engine ON     Voltage condition:     Othere decistral system	- None NO	none N	Defective wining harmens     Defective injector     Defective DME	cylinder 1 - Replace DME only if the fault remains continuously	US electronic engine power reduction: on CC message: on	note	Possible apparent symptoms: Engine runs roughly and can stall in extreme classes	Breakdown notice: Engine fault	beth injectors, although usually only one is defective. When interchanging positions use injectors operated by a CME driver circuit that only activates one injector!
		a short ci high and k	circuit between the d low-voltage sides is present. If al problem source(s):	The diagnostic fault code is entered when the fault	voltage between 9 V and 16 V Temperature condition: - None Time condition: - None				Check wing turness between DME and intectors 1 and 2, replace intector 1, if task	lamp: on - ECE electronic engine power reduction: on - CC message: on - US emissions warning lamp: on				hjectors 1 and 2, and 3 and 4, are connected to ahared DME driver circuits. This means that
MEVD1722- BN2000 0x2A30 10800 induction types, cylinder 1 high voltage aide, The diagnostic f activation theteum last activation of the in	Austion monitons control- gestor's high-online aside. P3148 Dironted to Cal	- Defection - Def	tive wiring harness or	entered when the fault occurs 3 times in sequence with no interplion on a single cylinder. none	Other conditions:     - Engine CN     - None Voltage condition:	- None NO	none N	Defective wiring harmess     Defective injector     Defective DME	Erjectors 1 and 2, replace injector 1, if thut remains awith the new injector to cylinder 2 - Replace the DME control module only if the fearlt is still present continuously.	US electronic engine power reduction: on CC message: on lamp: on ECE electronic engine	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme classes	Breakdown notice: Engine fault	shared DME driver circuits. This means that diagnostic fueld codes are always logged for both injectors, although usually only one is detective.
		a shori di high and le Potential	d low-voltage sides is	The diagnostic fault code is entered when the fault	- Orboard electrical system voltage between 9 V and 16 V Temperature condition: - None Time condition:				- Inspect wiring harness between DME and	power reduction: on - CC message: on				Injectors 1 and 6, and 3 and 4, are connected to ahared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although casally only one is
MEV017.2- BN2000 0x2A31 10801 Pusi lejector: cyfeder 2, high vellage side, advastor fre dagnostic f	function monitions method- njestor's high-settinge skide. P3151 Elotated to Coll	Injector High Side Shorted Coll - Det	dive wiring harmess effective injector Defective DME It is recognized when	The diagnostic fault code is entered when the fault cours 3 times in sequence with no interruption on a single cylinder. none	- None Other conditions: - Engine ON - None Voltage condition:	- Nona NO	none N	Defective wiring humans     Defective injector     Defective DME	Implet timing annual content one, and injector 2, replace injector 2.     Replace DME only if the fault remains continuously	US electronic engine power reduction: on CC message: on LECE electronic engine power reduction: on power reduction: on	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	enterentic fuel crowless can a where viscan of dispression fuel crowless and where viscan pro- both Pipeters, affrequity usually only one is defactive. When interchanging possitions use injectors operated by a DME driver circuit that only activates one injector!
		a short of high and k	circuit between the d low-voltage sides is present. If al problem source(s):	The diagnostic fault code is entered when the fault	- Otboard electrical system voltage between 9 V and 15 V Terrperature condition: - None Three condition: - None Other condition:				Check wining harmonic between DME and hijectors 3 and 4     Replace injuctor 4 the defect remains present respond by switching the new injector to	- US emissions warning lamp: on				Frjectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
	huncion monitore control- nectorio high-ventinge alde. P3154 Shorted to Coll	- Defects - Defe	dive wiring harmess of elective injector Defective DME It is recognized when is circuit between the	occurs 3 times in sequence with no interruption on a aingle cylinder. none	- Ergins ON - None Voltage condition:	- Norm NO	rone N	Defective wiring hameas     Defective injector     Defective DME	cylinder 3. - Replace DME only if the fault remains present continuously.	US electronic engine power reduction: on CC message: on lame: on	nore	Posable apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is detective.
		high and lo	circuit between the d low-voltage sides is present. If problem source(s): dive wing hameas	The diagnostic fault code is entered when the fault occurs 3 times in sequence	Officiand electrical system voltage between 5 V and 55 V Temperature conditor: None Time conditor: None				<ul> <li>Check wining harmass between DME and injectors 4 and 3, replace injector 4, if suit remains solid: the new injector to cylinder 3</li> </ul>	ECE electoric engine power reduction: on - CC message: on - US emissions warning lamp: on - US electoric engine power				Hytectors 1 and 5, and 3 and 4, and connected to shared DME driver circuits. This means that diagnostic that codes are always logged for both hytectors, although usually only one is defective. When interchanging autoints are injectors operated by a LTME driver circuit that
MEVDIT.2- BN2000 0x2A33 10803 Interturn cylinder 4, activation: The diagnostic 1 Interturn Inuit activation of the in	Iurction monitors control- lipicator la high-voltage alde. P3157 Shorted to Coll	Injector High Side - Def - De The fault is	elective injector Defective DME	occura 3 times in sequence with no interruption on a aingle cylinder. none	None Ober condition:     Ergins ON     Voltage condition:     Obcord electrical system voltage between 9 V and 16	- None NO	none N	Defective wiring hameas     Defective injector     Defective DME	remains aveitch the new injector to cylinder 3 - Replace DME only if the fault remains continuously	- US electronic engine power reduction: on - CC message: on lamp: on - ECC electronic engine power reduction: on	none	Posable apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	defective. When interchanging positions use injectors operated by a DNE driver circuit that only activates one injector!
		a a boti di high and la Potential	t circuit between the d low-voltage sides is present. Ti al problem source/s):	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interguistion on a	V Temperature condition: - None Time condition:			Defention and	- Check wing harness between DME and injectors 3 and 4, replace injector 3, if suit remains waith the next intert in clicks 4.	- CC message: on - US emissions warning lamp: on		Brouble arrest sectors		bjectors 1 and 2, and 3 and 4, are connected to shared DML driver circuits. This means that discretion first in content for
	hurction monitors control- castors high-hollings alde. P3150 Shorted to Coll	Injector High Side Shoted Col - De	dive wiring harmess of elective injector Defective DME It is recognized when tricruit babasen the	occurs 3 times in sequence with no interruption on a aingle cylinder. none	None     Other conditions:     - Engine CN     Voltage condition:     Orboard electrical system     orboard electrical system     orboard electrical system	- Nona NO	none N	Defective wiring hameas     Defective injector     - Defective DME	remains awith the new injector to cylinder 4 - Replace DME only if the fault remains continuously	US electronic engine power reduction: on <u>CCC message: on</u> lamp: on - ECE electronic engine power reduction: on - CC message: on	0208	Posable apparent symptoms: Engine runa roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is detective.
		Potential	t circuit between the d low-voltage sides is present. If al problem source(s): dive wiring harness	The diagnostic fault code is entered when the fault occurs 3 times in sequence	voltage between 9 V and 16 V Temperature condition: - None Time condition: - None			- Defective wiring humans	<ul> <li>Check wing harness between DME and injectors 1 and 2, replace injector 2, if Isult remains switch the new injector to cylinder 1.</li> </ul>	power reduction: on - CC message: on - US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:		Fijectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD 17.2- BX2000 0x2A25 10855 addvation: Interfum fault addvation of the in	Nunction monitons control- picator high-voltage aide. P3163 Cylinder 6 High Pressure Injector High Side Shorted to Coll	- Defe	dive wring hamess or efective injector Defective DME	occurs 3 times in sequence with no interruption on a single cylinder. none	- None Other conditions: - Engine CN - None	- Norma NO	none N	Defective wring harness     Defective injector     Defective DME	remains which the new injuctor to cylinder 1. - Replace DME only if the fault remains continuously	US electronic engine power reduction: on - CC message: on	none	Possible apparent symptoma: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	diagnostic huit codes are always logged for both injectors, although usually only one is detective.

										Va	tage condition:			1				lamp: on				
								The fault is recognized when the current rises too slowly.	If the fault occurs on the	- C Vol V Te	tage condition: nboard electrical system tage between 9 V and 16 mperature condition:							lamp: on - ECE electronic engine power reduction: on - CC message: on				
MEVD17.2-			The diagnostic function monitors control-		Cvinder 1 Hich Pressure Injector Low Side			Potential problem source(s): - Defective wiring hamess - Defective injector	same cylinder 3 times in an uninterrupted sequence, plus the debounce time of 0.5 sec., the diagnostic fault	- N	one w condition: one wr conditions:					- Defective wiring harness	Check wing harness between DME and injectors 1 and 2, replace injector 1, if suit remains switch the new injector to cylinder 2 Replace the DME control module only if the	US emissions warning lamp: off     US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although sussely only one is
MEVD17.2- BN2000 0x2A40	10816	Fuel injector, cylinder 1 low voltage side, activation: Booster time window	The diagnostic function monitors control- activistion of the injector's low-voltage side.	P3103	Cylinder 1 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Booster Time Error	Defective injector     Defective DME	sec, the diagnostic fault code is logged.	Terminal 15 - n	er conditions: ne - None hage condition: nboard electrical system	- None	NO	none	N	Defective Injector     Defective DME	Replace the DME control module only if the fault is still present continuously.	- CC message: on lamp: on - ECE electronic engine	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	both injectors, although usually only one is detective.
								The fault is recognized when the current rises too slowly.	If the fault occurs on the same cylinder 3 times in an	vol V Te	tage between 9 V and 15							power reduction: on - CC message: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
		Fuel injector, cylinder 2 low voltage side,			Cylinder 2 High Pressure Injector Low Side			Potential problem source(s): - Defective wiring hamess - Defective injector	same cylinder 3 times in an uninterrupted sequence, plus the debounce time of 0.5 sec., the diagnostic fault	- N Te - N	one te condition: one ter conditiona:					- Defective wiring harness	Check wiring harness between DME and injectors 1 and 6, replace injector 6, if taut remains switch the new injector to cylinder 1 Replace DME only if the fault remains	- US emissions warning lamp: off - US electronic engine power reduction: off				Injectors 5 and 6, and 3 and 4, are connected to shared DME drive circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is defactive. When interchanging positions use injectors operated by a DME driver circuit that enhoustions are invited.
MEVD17.2- BN2000 0x2A41			The diagnostic function monitors control- activation of the injector's low-voltage side.	P3107	Cylinder 2 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Booster Time Error	Defective injector     Oefective DME	sec., the diagnostic fault code is logged.	Terminal 15 - n	er conditions: ne - None bage condition: riboard electrical system	- Nore	NO	none	N	Defective wiring harness     Defective injector     Defective DME	- Replace DME only if the fault remains continuously	eduction: off - CC message un- lamp: on - ECE electronic engine	note	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	injectors operated by a DME driver circuit that only activates one injector!
								The fault is recognized when the current rises too slowly.	If the fault occurs on the	- C Vol	nboard electrical system tage between 9 V and 15 mperature condition:						- Check wiring harmass between DME and injectors 3 and 4	ECE electronic engine power reduction: on CC message: on				
								Potential problem source(s): - Defective wiring harness	same cylinder 3 times in an uninterrupted sequence, plus the debounce time of 0.5	- N	one re condition: one					- Defective wiring harness	<ul> <li>Replace injector 4, if the defect remains present respond by switching the new injector to cylinder 3.</li> </ul>	- US emissions warning lamp: off     - US electronic engine power				Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000 0x2A42	2 10818	Fuel injector, cylinder 3 low voltage side, activation: Booster time window	The diagnostic function monitors control- activation of the injector's loss-voltage side.	P3111	Cylinder 3 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Booster Time Error	Defective injector     Defective DME	sec, the diagnostic fault code is logged.	Terminal 15 - n	er conditions: zne - None tage condition:	- Norse	NO	none	N	Defective injector     Defective DME	Replace DME only if the fault remains present continuously	reduction: off - CC message: on lamp: on	nore	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	both injectors, although usually only one is detective.
								The fault is recognized when		v	nboard electrical system tage between 9 V and 15						- Check wining harmass between DME and	ECE electronic engine power reduction: on CC message: on				
								the current rises too slowly. Potential problem source(s): - Defective wiring hamess	If the fault occurs on the same cylinder 3 times in an uninterrupted sequence, plus the debounce time of 0.5		rperature condition: w condition: one					- Defective wiring herness	Check wining harmass between DME and injectors 3 and 4     Replace injector 4, if the defect remains present respond by switching the new injector to cylinder 3.	- US emissions warning lamp: off     - US electronic engine power				Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that discretific fault codes are always loosed for
MEVD17.2- BN2000 0x2A43	10819	Fuel injector, cylinder 4 low voltage side, activation: Booster time window	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3115	Cylinder 4 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Booster Time Error	Defective injector     Defective DME	the debounce time of 0.5 sec., the diagnostic fault code is logged.	Terminal 15 - n	er conditions: 216 - None lage condition:	- None	NO	none	N	Defective injector     Defective DME	cylinder 3. - Replace DME only if the fault remains present continuously	reduction: off - CC message: on	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	diagnostic fault codes are always logged for both injectors, although usually only one is defective.
								The fault is recognized when the current rises too slowly.	If the fault occurs on the	- C Vol	nboard electrical system tage between 9 V and 15 mershare condition:							lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s):	in the sub occurs on the same cylinder 3 times in an uninterrupted sequence, plus the debounce time of 0.5 sec., the diagnostic fault	- N Te	ane re conditor:					- Defective wiring harmens	Check writing harvess between DME and injectors 3 and 4, replace injector 3, if taut remains switch the new injector to cylinder 4 Replace DME only if the fault remains	- US emissions warning lamp: off     - US electronic engine power				Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000 0x2A44	10820	Fuel injector, cylinder 5 low voltage side, activation: Booster time window	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3119	Cylinder 5 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Booster Time Error	Defective wiring hameas     Defective injector     Defective DME	sec., the diagnostic fault code is logged.	Terminal 15 - n	one ser conditions: ane - None -	- None	NO	none	N	Defective wining hamean     Defective injector     Defective DME	Replace DME only if the fault remains continuously	US electronic engine power reduction: off <u>CC message: on</u> lame: on	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	shared Leke driver circuits. I his means mae diagnostic taut codes are always logged for both injectors, although usually only one is defective.
								The fault is recognized when			nboard electrical system tage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
								the current rises too slowly. Potential problem source(s): - Defective wiring hamess	If the fault occurs on the same cylinder 3 times in an uninterrupted sequence, plus the debounce time of 0.5	Te -N Tr	mpensiture condition: one re condition: one					- Defective wiring harness	Check wining harmass between DME and injectors 1 and 2, replace injector 2, if taut remains switch the new injector to cylinder 1	US emissions warning lamp: off     US electronic engine power				hijectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2- BN2000 0x2A45	10821 Inji	ection system, cylinder 6 low voltage side, activation: Booster time window	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3123	Cylinder 5 High Pressure Injector Low Side Booster Time Error	Injector Low Side	Booater Time Error	Defective injector     Defective DME	sec, the diagnostic fault code is logged.	Terminal 15 - n	ser conditions: one - None	- Norse	NO	none	N	Defective Injector     Defective DME	Replace DME only if the fault remains     continuously	reduction: off - CC message: on	none	Possible apparent symptoms: Engine runs roughly	Breakdown notice: Engine fault	both injectors, although usually only one is detective.
								The facil is removined when		-0	tage condition: nboard electrical system tage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
								The fault is recognized when an open wire is present. Potential problem source(s):	The diagnostic fault code is entered when the fault	Te -N Tir	rperature condition: one re condition:						- Check wining harmass between DME and injectors 1 and 2, replace injector 1, if fault	110 and a local and a second as				Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000 0x2A4C	10525	Fuel injector, cylinder 1 low voltage aide, activation: Line disconnection	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3100	Cylinder 1 High Pressure Injector Low Side Circuit Open	Injector Low Side	Open Orcuit	Potential problem source(s): - Defective wiring harness - Defective injector - Defective DME	entered when the fault occurs 3 times in sequence with no interruption on a single cylinder.	Terminal 15 - n	er condition: one er conditions: zne - None	- Norse	NO	none	N	- Defective wiring harness - Defective injector - Defective DME	injectors 1 and 2, replace injector 1, if taut remains switch the new injector to cylinder 2 - Replace the DME control module only if the fault is still present continuously.	US electronic engine power reduction: on CC message: on	Date	Possible apparent symptoms: Engine runs roughly and can stall in extreme classes	Breakdown notice: Engine fault	shared DME drive crouits. This means that diagnostic fault codes are skrays logged for both injectors, although usually only one is defactive.
								The fact is series .		Vo - C vol	lage condition: nboard electrical system lage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				biotop 1 and 5 and 5 and 5
								The fault is recognized when an open wire is present. Potential problem source(s):	The diagnostic fault code is entered when the fault	v Te -N	mperature condition: one re condition:						- Inspect wiring harmass between DME and	US emissions warning lamp: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is
MEVD17.2- BN2000 0x2A4D	10829	Fuel injector, cylinder 2 low voltage side, activation: Line disconnection	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3104	Cylinder 2 High Pressure Injector Low Side Circuit Open	Injector Low Side	Open Circuit	Defective wiring harness     Defective injector     Defective DME	occurs 3 times in sequence with no interruption on a single cylinder.	- N Of	one ver conditions: one - None	- Norse	NO	none	N	Defective wiring harness     Defective injector     Defective DME	injector 2, replace injector 2. - Replace DME only if the fault remains continuously	US electronic engine power reduction: on CC message: on	none	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injector!
										Va - C	lage condition: nbcard electrical system lage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
								The fault is recognized when an open wire is present.	The diagnostic fault code is entered when the fault	V Te	nperature condition: one re condition:						Check wining harmass between DME and injectors 3 and 4     Replace injector 4, if the defect remains	- CC message: on     - US emissions warning     lamp: on				Injectors 1 and 2, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2- BN2000 0x244E	10830	Fuel injector, cylinder 3 low voltage side, activation: Line disconnection	The diagnostic function monitors control- activation of the injector's low-voltage side.	P3108	Cylinder 3 High Pressure Injector Low Side Circuit Open	Injector Low Side	Open Circuit	Potential problem source(x): - Defective wining harness - Defective injector - Defective DME	entered when the fault occurs 3 times in sequence with no interruption on a single cylinder.	- N OI	e conditions: en conditions: ane - None	- Norm	NO		N	Defective wiring harness     Defective injector     Defective DME	present respond by switching the new injector to cylinder 3. - Replace DME only if the fault remains present continuously	- US electronic engine power reduction: on - CC message: on	0.00	Possible apparent symptoms: Engine runs roughly and can stall in extreme cases	Breakdown notice: Engine fault	shared DME driver circuits. This means that diagnostic fault codes are always logged for both injectors, although usually only one is detective.
										Va	bage condition: nbcard electrical system tage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on				
								The fault is recognized when an open wire is present.	The diagnostic fault code is	V Te	mpenature condition: one						- Check wiring harmoss between DME and	CC message: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2-		Fuel injector, cylinder 4 low voltage side,	The diagnostic function monitors control-		Cylinder 4 High Pressure Injector Low Side			Potential problem source(s): - Defective wiring harness - Defective injector	entered when the fault occurs 3 times in sequence with no interruption on a	- N Of	e condition: one er conditiona:					- Defective wiring harness - Defective injector	injectors 4 and 3, replace injector 4, if tauk remains switch the new injector to cylinder 3 - Replace DME only if the fault remains	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: Engine runs roughly and can stall in extreme	Breakdown notice:	both injectors, although usually only one is defective. When interchanging positions use injectors operated by a DME driver circuit that
BN2000 0x2A4F	10831	activation: Line disconnection	activation of the injector's low-voltage side.	P3112	Circuit Open	Injector Low Side	Open Circuit	- Defective DME	single cylinder.	Va	ane - None lage condition: nboard electrical system lage between 9 V and 15	- Norse	NO	none	N	- Defective DME	continuously.	- CC message: on lamp: on - ECE electronic engine power reduction: on - CC message: on	none	Clases	Engine fault	only activates one injector!
								The fault is recognized when an open wire is present.	The diagnostic fault code is	V Te	tage between 9 V and 15 mperature condition: one							- CC message: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fault codes are always logged for
MEVD17.2-		Fuel injector, cylinder 5 low voltage side,	The diagnostic function monitors control-		Cylinder 5 High Pressure Injector Low Side			Potential problem source(s): - Defective wiring harness - Defective injector	entered when the fault occurs 3 times in sequence with no interruption on a	Te - N	ve condition: one ver conditiona:					Defective wiring harmess     Defective injector     Defective DME	Inspect wiring harmass between DME and injector 5, replace injector 5.     Replace DME only if the fault remains	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: Engine runs roughly and can stall in extreme	Breakdown notice:	both injectors, although usually only one is defective. When interchanging positions use injectors operated by a DME driver circuit that
BN2000 0x2A50	10832	Fuel injector, cylinder 5 low voltage side, activation: Line disconnection	activation of the injector's low-voltage side.	P3116	Circuit Open	Injector Low Side	Open Circuit	- Defective DME	single cylinder.	-0	ane - None lage condition: nboard electrical system	- None	NO	none	N	- Defective DME	continuously	CC message: on     lamp: on     ECE electronic engine	none	CASAS	Engine fault	only activates one injectori
								The fault is recognized when an open wire is present.		V	tage between 9 V and 15 mperature condition:							power reduction: on - CC message: on				Injectors 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that
MEVD17.2		ection system, cylinder 6 low voltage aide,	The diagnostic function monitors control-		Cylinder 6 High Pressure Injector Low Side			Potential problem source(x): - Defective wiring harmess - Defective injector	The diagnostic fault code is entered when the fault occurs 3 times in sequence with no interruption on a	- N Te - N	er conditions:					- Defective wiring harness - Defective injector	Check wiring harness between DME and injectors 1 and 6, replace injector 6, if fault remains switch the new injector to cylinder 1. Replace DME only if the fault remains	- US emissions warning lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: Engine runs roughly and can stall in extreme	Breakdown notice:	Figuedore 1 and 6, and 3 and 4, are connected to shared DME driver circuits. This means that diagnostic fuell codes are always logged for both rightcorx, although usuably only one is defective. When interchanging positions use injectors operated by a DME driver circuit that only activates one injector!
BN2000 0x2A51	10533	adjustor: Line disconnection	activation of the injector's low-voltage side.	P3120	Circuit Open	Injector Low Side	Open Grout	- Defective DME	aingle cylinder.	Terminal 15 - n	nboard electrical system tage between 9 V and 16	- None	NO	none	N	- Defective DME	continuously	- CC message: on	none	Cases	Engine fault	erly activates one injector
								logged when voltage is present at the DME input (E_U_NJ) although the relay has switched off.		Te	Teerature condition:							ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the wire for the					Potential problem source(s): - Defect at plug or in witing harness between relay and		Tir - 8 04	one re condition: sec. after deactivation of reload-protection relay for ition and injection					- Defect at plug or in wiring harness between	- Check plug and wiring hamess between relay	- US emissions warning lamp: off				
MEVD17.2- BN2000 0x2A5F	10547 Inje	ction systems, voltage supply: Short circuit to 8+	injector voltage supply from the overload- protection relay for ignition and injection for short circuits to positive.					DME - Relay defective - Defective DME	This fault is logged in the control module is fault memory immediately.	rone -S	tion and injection ser conditions: hutdown phase - None	<ul> <li>8 sec. after deactivation of overload-protection relay for ignition and injection</li> </ul>	NO	u	N	relay and DME - Relay defective - Defective DME	and DME - Replace relay - Replace DME	US electronic engine power reduction: off - CC message: none	DEDE	Possible apparent symptoms: None	Breakdown notice: None	Norm
								logged when no voltage is present at the DME input (E_U_INJ) although the relay has switched on.		-0	tage condition: nboard electrical system							ECE emissions warning lamp: off     ECE electronic engine				
								Potential problem source(s): - Fuse detective - Detect at plug or in writing harness between relay and		vel V	tage between 9 V and 16						- Check fuse	- US emissions warning				
MEVD17.2-	Inia	ction systems, voltage supply: Short circuit	The diagnostic function monitors the wire for the injector voltage supply from the overload- protection relay for ignition and injection for					Detect at plug or in writing harness between relay and DME     Relay defective	This fault is logged in the control module's fault	- N Tr - N	rperature condition: one se condition: one ser conditiona:					Fuse defective     Defect at plug or in wiring harness between     relay and DME     Relay defective     Relay defective	Check plug and wining harness between relay and DME     Paplace relay	- US emissions warning lamp: off     - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x2450	0 10848	to earth	protection neary for ignition and injection for abort dirouita to ground.						memory immediately.	Terminal 15 - n	- None	- Norse	ND	none	N	- Indialy derective - Defective DME	- Replace DME	CC message: none     ECE emissions warning	none	Non-starter	None	none
								logged when no voltage is present at the DME input (E_U_INJ) although the relay has switched on.		Va - C val	lage condition: nboard electrical system lage between 9 V and 15							ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the wire for the					Potential problem source(s): - Fuse defective - Defect at plug or in wiring harness between relay and		Ľ	rperature condition: one se condition: one					Fuse defective     Oefect at plug or in wiring harness between	Check fase     Check fase     Check fase	CC message: none     US emissions warning     lamp: off				
MEVD17.2- BN2000 0x2A61	10549	Injection systems, voltage supply: Line disconnection	In a sugnose function moneous the una for the injector voltage supply from the overload- protection relay for ignition and injection for an open circuit.					hamess between relay and DME - Relay defective - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	e condition: one er conditions: one - None	- Norse	NO	u	N	Defect at plug or in wiring harness between relay and DME     Relay defective     Defective DME	Check plug and wining harness between relay and DME     - Replace relay     - Replace DME	- US electronic engine power reduction: off - CC massage: none	nore	Possible apparent symptoms: Non-starter	Breakdown notice: None	Norm
	I T									Va - C val	tage condition: nboard electrical system tage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on				
								The fault is recognized when communications with the driver circuit that activates the injector break down.		V Te -N	mperature condition: one re condition:							CC message: on     US emissions warning     lame: on				
MEVD17.2- BN2000 0x2A70		E, internal fault, HDEV output stage module 1: SPI communication faulty	The diagnostic function monitors the driver circuit responsible for activating the injector.	PISAS	Control Module Multiple Output Stage SPI-Bus Communication Error	ECM	Multiple Output Steps	Potential problem source(x): - DME defective	This fault is logged in the control module's fault memory immediately.	- N OS none - E	ne ser conditions: rigine ON - None	- Norse	NO	none	N	- DME defective	- Only replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	- US electoric engine power reduction: on - CC message: on	Date	Possible apparent symptoms: - Engine runs poorly with power loss - Breakdoon in extreme cases	Breakdown notice: - 16098	- 0008
										Va - C	lage condition: nboard electrical system tage between 9 V and 16							lamp: on - ECE electronic engine				
								The fault is recognized when communications with the driver circuit that activates the injector break down.			nperature condition: one e condition: one							- CC message: on				
MEVD17.2- BN2000 0x2A71	10965 CM	E, internal fault, HDEV output stage module 2. SPI communication faulty	The diagnostic function monitors the driver circuit responsible for activating the intector.	PIEAS	Control Module Multiple Output Stage SPI-Bus Communication Error	FCM	Multiple Output Stage	Potential problem source(s):	This fault is logged in the control module's fault memory immediately.	0	wr conditions:	- Norm	NO	0016	N	- DME defective	Crity replace the DME if the fault remains present continuously or if the fault frequency is creater than 3	lamp: on - US electronic engine power reduction: on - CC message: on	7778	Possible apparent symptoms: - Engine runs poorly with power loss - Breakdown in extreme cases	Breakdown notice:	
			circuit responsible for activating the injector.	r torna	Themanian p. (75)	LUM .		- DME defective		1	ne - None lage condition: nboard electrical system lage between 9 V and 16						greater than 3	CC message: on     Iamp: on     ECE electronic engine     power reduction: on     CC message: on	1018	ALL AND A REAL AND A R	- 1508	- 1446
								The fault is recognized when communications with the driver circuit that activates the injector break down.														
MEVD17.2-	DM	E, internal fault, HDEV output stage module	The diagnostic function monitors the driver		Control Module Multiple Output Stage SPI-Bus			Potential problem source(s):	This fault is logged in the control module's fault	Tr -N OI	rpersture condition: one se condition: one ser conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	US emissions warning lamp: on     US electronic engine power reduction: on		Possible apparent symptoms: - Engine runs poorly with power loss	Breakdown notice:	
BN2000 0x2A72	10855	1: SPI communication implausible	circuit responsible for activating the injector.	PISAS	Communication Error	ECM	Multiple Output Stage	DME defective	memory immediately.	none - E	ngine ON - None bage condition: nboard electrical system bage between 9 V and 15	- Nore	NU	none	n	DME defective	greater than 3	- CC message: on     lamp: on     - ECE electronic engine     power reduction: on     - CC message: on	none	- Breakdown in extreme cases	- 1016	- 7078
								The fault is recognized when communications with the driver circuit that activates										115 amianices warning				
MEVD17.2-		E, internal fault, HDEV output stage module	The diagnostic function monitors the driver		Control Module Multiple Output Stage SPI-Bus			the injector break down. Potential problem source(s):	This fault is logged in the control module's fault	- N Tr - N	rperature condition: one se condition: one ser conditiona:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	US emissions warning lamp: on     US electronic engine power reduction: on		Possible apparent symptoms: - Engine runs poorly with power loss	Breakdown notice:	
			circuit responsible for activating the injector.	PIEAS	Communication Error	ECM	Multiple Output Stage	- DME defective	memory immediately.	Terminal 15 - n	ne - None None	- Norse	NO	none	N	- DME defective	greater than 3	- CC message: on	none	Breakdown in eatherne cases	- 1016	- 1016
								The fault is recognized when communications with the		vol V Te	tage between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
MEVD17.2-		Constant Martin Constant			Control Module Multiple Output Stage SPI-Bus			communications with the driver circuit that activates the injector break down.	This fault is logged in the control module's fault	- N	rperature condition: one se condition: one se conditions:						- Only replace the DME if the fault remains present continuously or if the fault frequency is	US emissions warning lamp: on     US electronic engine power reduction: on		Possible apparent symptoms: - Engine runs poorly with power loss	Breakdown notice:	
MEVD17.2- BN2000 0x2A74	10858	E, internal fault, HDEV output stage module 1: SPI communication, signal fault	The diagnostic function monitors the driver circuit responsible for activating the injector.	PISAS	Control Module Multiple Output Stage SPI-Bus Communication Error	ECM	Multiple Output Stage	Potential problem source(s): - DME defective	memory immediately.	none - E	er conditions: rgine CN - None lage condition: nboard electrical system	- None	NO	none	N	- DME defective	present continuously or if the fault frequency is greater than 3	eduction: on - CC message: on lamp: on - ECE electronic engine	none	Engine runs poorly with power loss     Breakdown in extreme cases	Breakdown notice: - none	- 5056
								The fault is recognized when communications with the		vel V	tage between 9 V and 15							power reduction: on - CC message: on				
	1				Control Module Multiple Output Stage SPI-Bus			The fault is recognized when communications with the driver circuit that activates the injector break down.	This fault is logged in the control module's fault	- N Tir - N	npersonalisen: one e condition: one er conditions:						- Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: - Engine runs poorly with power loss		
		E, internal fault, HDEV output stage module	The diagnostic function monitors the driver					Potential problem source/alt	control module's fault	1 01	er conditions:	1		1			present continuously or if the fault frequency is	reduction: on		<ul> <li>Engine runs poorly with preser loss</li> </ul>	Breakdown notice:	

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	organ security bind exciption constant security is fixed of approximation is fixed of approximation Protection approximation - Outdrive any prime mo- - Lab in containt gradem mo-	V Temperature conditor: - Engine warmst to contrail temp, above 80 °C Time conditor:		- If faults related to instance control are presen- regare these first     - Contact years have for operations     - Order of the second	ECE emissions warning large on     ECE electronic argine     power mulaion: on	
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	the tim control on the cogois sume bland the cably(is convolute second a live (of positive 4%. Patiential problem source)(p)	Choose of decision of system     village is between 9 Vand 16     Y		If faults related to mixture control are present repair these finat - Conduct system less for oxygen sensors in	- ECE emissions warning Lang: cn - ECE electronic engine	
The effective includes includes the management	- Controls any parents     - Advects any parents     - Advects any parents     - Advects any parents     - Advects     - Ad	The condition: - None - None - Engine on - Engine on - Down at a constant speed between 50 and 50 km/h at modulate jump (1400 to 3340		Deficite wing hanness     Deficite wing hanness     Deficite wing hanness     Deficit and han dynamic merginelaking difference wing hanness     Deficit and hanness     D	power reduction: on - CC message: on r	Nutsike segaret properson     Mi keny plant zer fan de properson     Mi keny plant zer fan de properson     Normaan de keny plant zer fan de plant zer fan de plant de segaret fan de segaret de
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	the voltage of the null- pressure service is last them the 0.2 V.	Voltage condition: - Orbiteroal efficiencial system voltage between 9 V and 15 V V Temperature condition: - None			Iamp: on - ECE electronic engine power reduction: on - CC message: on	
NO0172     NO1072     NO100	Dedic is any lawars     beness Dedic and in the share of the shar	Terminal 15 - Anna - Nana - Na	NO D 5575 N	Detect in wirtig harmas between DME and nat- pressent wenner Detection mit-pressent wenner Detection mit-pressent wenner Detection DME     Replace mit-pressent wenner Replace mit-pressent wenner     Replace DME	Use enhances warring     Image on     Use activities prover     reductors and prover     reductor on     -CC ensurger, on     reductor on     -CC exception     Integrition     Prover instances on     prover instances on	Pauble apparent symptom: Braildown rotics: Reduced power Banded EM, Tank Nove
ND:07.2 For keypy system: Pressans too high, pressans system 6 direct of white 16 ans . Pred RedSystem Pressans - Too High, Lingo	Promising processing - Devices and processi	voltage between 0 V and 15 V argument accordiance - None Three conditionce - None Chier conditionat		Detect in wing harves between DME and nai- presson sensor     Obtection adjournance and DME.     Paylos naily-means a sensor     Obtection naily-results sensor	- CC message: on     US emissions werning     larger on	Describero trollor: The enjoy ments is its imp to may prove constructive the enjoy ments and the second prove is defortibly to variational, descrine prove is related to defore and on the from passing
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	Providings at the detection final group is balance 51. Potential grobeins source(b) - Enters in CAM messages - Detection bangs harmans to	- Orbitand electrical system     voltage between 9 und 15     V     V     V     V     Temperature condition:     - Nonat     Time sumdition:			- CCE alectoric ergne poer reductor. of -CC message: none     -US emission warring     -US modified for the former off	
BED072         Doll2         1234         Lory presents lui system, signal voltege ul destructi fuel programma fuel system         The disputed fuelces monitors for outgoing at the shorts fuel program	the held important cloud passed where he passed where	Oter conditions: Terminal 15 - Ergins ON - None - None	see EXP electric hel pump see EXP electric hel pump produke (nodule (n	- Emmis in CAM message     - Definition fluid caused by defect in CAM     - Defect in which phases in the prop.     - Charles of the phases     - Electric tual pump defective     - Check operation of half pump	- Courtestanger rocker	Paula gener inputor: gen forn one is braken single tal densfor norm is braken single tal densfor norm is braken single tal
	Pearing public account) - And and any operation - Last and any operation - Last and any operation - Descent and any any operation - Descent and any any operation - Any op	Voltage condition: - Concurred vehiclencial system voltage between 0 V and 16 V V Temperature condition: - None		- field tank anyong - Lank to ta for yourn - Delet in tang harmans to the greasure samor - Oast kar langer - Delet in tang means means - Delet in tang means means	- ECE animations warning large: off - ECE allocations and power modulations off - OCC message: none	
BECOT 2. 85020         Las pesares bel system, seriel Actail process that for departic factor motion the fuel low- process that for the system.           85020         0x282         11220         process that fuel low- process that for the system.         or departic factor motion the fuel low- round work during the system.         or departic factor motion to be system.	- Defactor polarizer timer     advice in the full pump     - Defact in wing harman to         control modules that         but pump         control modules that         but pump         control modules that         but pump         control modules	Tempenalus contion:           - Nora           Time contion:           - Vora           - Vora           - Copies on           - Nora           - Nora           - Nora           - Nora	ana DSP electric tual pump ana DSP electric tual pump modules N	Obtich in long-measure amount     Obtich in long-personane financi waite in the last     proper parage linear waite long long linear hair linguten     obtich in withing harmass in ball groups     obtich in withing harmass in ball groups     obtick linear and a diagramp	- CC message: none none	Peakla separat symptom: peaklass range bot secular: Bauklass rates: Secular: Nore nore Nore nore
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MDOT7.2 Low present for lightim, control Adual BND00 bid364 11236 present torsign view for the second weak view for the second view for the second view for the second for the second view for the second for	service     - Pressure Instant volve in     Ethyl check (and provide in     Ethyl check (and provide in     Ethyl check (and provide in     construct check (and provide	- None Other conditions: - Engine on none - No overnun mode - None - None	see EXP electric had pump see EXP electric had pump recedule in octube in the pump in the second sec	Obtach in low pressures sensar     Pressure limits values a IFO descrit latat     Pressure limits values a IFO descrit latat     Pressure limits values a IFO descrit latat     Obtach limit values a IFO descrit latat	- US emissions warring     - US emissions warring     - US existence or grap power     neducion: off     - CC emissage: .orm     - CCC emissage: .orm     - CCC emissage: .orm	Pasabe apparel synptons: Braiklosn nolos: None None nore
	The fact is associated with the fact process the the type of the process represents that the type of the process represents that there are program many. Proceeding of pathoese represents the type of the pathoese representation of the type of the type of the type of the type of the process of the type of the type of the type of the type of the process of the type of the type of the type of the type of the type of the type of the type of the type of the type of the type of the type of the type of the type of the type of the type of type of the type of th	Vallage condition: - Onious of extendial system - onlings assesses IV and 15 - Forger warmal for contail - Engine warmal for contail any, shows a 07 C			- 6CC entrations sending term of - 6CC dischoric regime power inductors on - 0C message: on MY11105 - US emaistors warring large on	
NEX0072- B0200         De2015         1541         Pressure Transmotion motion pressure system         Pre-stiggenetic location pressure system         Cylinder hypothycida: CAOI, Pressure Trail Law in http://www.frail.ow/in           B0200         De2015         1541         converter pressure system         PHOE         Op/Internet Trail	- Tots kall and rest to large     - Ordinarial multicolumn     - Ordi	The condition: Nove Specific Conditions (Specific section 2) in the specific condition (Specific conditions) (Specific condititions) (Specific condititit	Nona rene Y	- Tark hall level to the     - Coldward muth-often assuming term     - Coldward muth-often assuming term     detective that system     the set system	- US electronic engles power     n reduction on     - CC message: on     none     - CC message: on     none     - CC enclose surpling     large: of     - CC electronic engles	Peable apparent symptome: Breakhown reflex: Norw Norw Norw
Full passars Research International	below a value based on the program may, Potential problem scurce(b)	Origing Stateward V and 16     Vice To The product econolism     Temperature condition:     - Degree same to screen all     three, does s0 °C     There and the condition:     Other condition:     Other condition:     temperature areas then YC?     three and the YC?     three and the YC?     three and the YC?		- Tark hallend too low - Onesh hallend	power reduction: on - CC measure: on M111 US: - US enables warring kamp: on - US enables: ongine power	
MEVD17.2 pressure; injection descrivation for catalytic The diagnostic function monitors the high-	- Goldwarf methodsin     - Goldwarf methodsin     - Goldwarf methodsin     - Soldwarf methodsin     - Goldwarf methodsin     - Goldwarf methodsin     - Goldwarf methodsin     - Goldwarf     - Goldwarf methodsin     - Goldwarf	Ohar conditions:     - Engine warmed to normal     none     - Engine CN     temperature, more than 80°C     - None	None rone Y	Collation reveals out over a collection intermining from     Collation and the source of the protein (if present)     defective fuel system     the fuel system	reduction, erguns poers     reduction, erguns poers     reduction, erguns poers     - CC message: on none	Possible apprent symplom: Breakdown rotice: Norw Norw Norw Norw

	1 ha taut it recognized when an enrichment of more than 30 % is explored for longer than 30 ascondit.							
	Potential problem source(s): - Oxygens sumato televa catalytic converter defective - Maas enforce areasor							
	defective - Defaultive injectors - Initiale-markeld pressure service defaultive - Initiale-ant imprendure service defaultive - Camminh Upunktor service - Default in the Service and Service and Service - Default in the Service and Service and Service and Service - Default in the Service and Service and Service and Service - Default in the Service and Service and Service and Service - Default in the Service and Service and Service and Service - Default in the Service and Service and Service and Service and Service - Default in the Service and Service an	Voltage condition:		Oxygen sensor before catalytic converter detective     Mean effective	- 81	CE emissions warring		
	- maxies are temperature a sensor defective - Carmahafi position sensor defective - Beartich in high-persuane fuel	Onboard statistical system     voltage textures TV and 15     V     Temperatures condition:     -Nana     Tem condition:		Ansakafko sanaro delactive     - Massakafko sanaro delactive     - Delactive injectors     - Intake-manifold pressure sanaro delactive     - Intake-ak temperature sanaro delactive     - Carnhaft publico nanaro defactive	If additional faults related to the following proponents are present, process these first:     Pre-catalyst coxyse semicor, mass artiflow	Lamp: on CEE elicitoric engine power reduction: on - CC measuage: on		
MEVIOT2- Fuel supply system, organs sensur emission classify any darge set of the standard classify system and the standard classify any standard classify	- Leak in exhaust system mem	his fault is logged in the - None control module's fault Other conditions: moy if it remains present - Engine on		behind catalytic converter	sensor, high-pressure fuel system, low-pressure - US - fuel system Check exhaust system for leaks	IS emissions warning large off electoric engine power reduction: off	Possible apparent symptoms:	Breakdown notice:
BICIDD         Guild A         1120         ombit opper inst acceded         Isen of the lambda costed entries 4.         POINT         System To Law (Bell 1)         Put System	All Load Ranges beind to the Uncompared and the Compared	for longer than 30 are. none - EVAP not active - None	- None none	Y - Poor-quality gasoline	- Replace injectors - I	CC message: none none	- 1008	-100e -800e
	Potential problem source(s):							
	Congress functions     Constrained     Co	Voltage condition:		Oxygen sensor before catalytic converter defective	-81	CE emissions warring		
	defective	Voltage condition: - Onboard electrical system voltage between 5 V and 15 V V Temperature condition:		chfective - Mass-article samor defactive - Defective injectors - Intake-manifold pressure samor defactive - Intake-at pressure samor defactive	components are present, process these first:	CE emissions warring lamp: on CE diedotoric engine power reduction: on - CC measure: on		
MEDIOT 2. Full supply speeds, corgen sensor ensures and conscions the bandwise corport The ministrate to Part Supply Consect Long Fuel Corted, Upgare	- Darlact in high-pressure fund syntam - Defect in low-pressure fund Th syntam - Lask in exclused system - Lask in exclused system	- None Time condition: Time condition: - None control module's fault Other conditione: - Toroite on		Caratulat position sensor defective     Defect in high-pressure fuel system     Defect in low-pressure fuel system	air temperature sensor, carnahaft position	iS emissions warning lamp: off electronic angine power reduction: off	Possible apparent symptoms:	Breakdown rotice:
MEC/DT2-         Pair Early spin: regression and waters         Analysis         Pair Early Spin: Caref. Log Mar. Control. Spin: Caref. Spin:	Closed Loop Puel Control before oxygen sensor behind for The starts the recognized viewer the induce requires a lease correction of more than 30 %	or longer than 30 sec. none - EVAP not active - None	- None none none	Y - Poor-quality gasoline	- Replace injectors - 1	reaction of CC message: none none	Розакия аррании тупроти: - поти	- none - none
	for longer than 30 seconds. Potential problem source(n): - Oxygen sensor before calable: converter defective							
	- Mana-sidhea seruar datacian - Sankandan (Sankandan) - Sankandan (Sankandan) - Sankandan (Sankandan) - Sankandan (Sankandan) - Sankandan (Sankandan) - Sankandan (Sankandan)			- Oxygen sensor before catalytic converter				
	sensor defective - Intake-air temperature sensor defective - Camahaft position sensor	Voltage condition: - Onfoand electrical system voltage between 3 V and 16		Coryen and branch Stanger Contention defactive Allass-attices searcer defactive Defactive high citizes Intake-manifold pensause service defactive	If additional faults related to the following components are present, process these first:     Pre-catalyst coxygen sensor, mass-eirflow	CE emissions werning lamp: on		
	Cannaba position service defection Detect in high-persuse fuel system posterior in one persuse fuel system	V		Intake-sit temperature sensor defective     Cammhalt position sensor defective     Defect in high-pressure fuel system     Defect in low-pressure fuel system     Defect in low-pressure fuel system		lamp: on ICE electoric engine power reduction: on - CC message: on IS emissions warring		
No.         The degravit function motion to leads           MD/077.2-         Print apply system, corps same reasons         abus for leads and the function motion to leads           MD/077.2-         System Tox Rind Serie 1         and for leads or of data is a leader           MD/077.2-         System Tox Rind Serie 1         Functional series	Intake system leaking Th     Oli cap not sealing co     Leak in exhaut system mem	Head to begin the      Head to begin the      Head to begin the      control modules that     Control modules that     Control modules that     Control modules     Port on stroles	- None none	- Induk system Isaking     - Oli cap not saving     - Laak in subscal system bodros oxygen sensor     behind catalytic convertin     Y     - Poor-quality gasoline	Positive crankcase ventilation, of cap, tank evaporative emissions system) - US - Check exhaust system for leaks - Replace injectors	lamp: off electronic angine power reduction: of C C message: none none	Possible apparent symptoms: - Engine runa poorly	Breskdown notice: - Loss of power - none
	the table in receiptable when the motion receiptable at lease correction of more than 30 % for longer than 30 seconds.							
	Potential problem source(s): - Coygen assures before catalytic converter delective - Mass-writers areasor							
	Catalytic convint reasons - Makes and the second - Deductive registran - Inductive registran - Inductive registrance - Inductive registrance - Inductive registrance - Inductive registrance - Inductive registrance - Inductive registrance - Inductive registrance			- Oxygen sensor before catalytic converter defective				
	- Infake-ait temperature     annard reflective     - Carnshaft position sensor     defective     - Defect in http://waxave.foal	Voltage condition: - Chocard electrical system voltage between 9 V and 16 v		defective - Masas-affred sensors defective - Defective injectors - Instae-manifold processors sensor defective - Instae-and interpretature sensor defective - Camanhaft position sensor defective	Pre-catalyst oxygen sensor, mass-airflow sensor, intake-manifold pressure sensor, intake E	CE emissions warring langs on ICE electoral engine power reductions on		
The diagnostic Landon motion the lando	system - Defect in low-pressure fuel workern	Temperature conditor: - None Time conditor: - None - None		Defect in high-pressure fuel system     Defect in low-pressure fuel system     Index system backing	sensor, high-pressure fuel system, low-pressure fuel system Check air-induction system for lasks (also checkion the following commonsets)	CC message: on IS emission worning lamp: of		
NEI/OT2-         Pail toppl yobse, crypte searce results         Indextop share areas, The minute the minute share areas, The share areas, The share areas, The share share areas, The share areas, The share areas, The share share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share areas, The share arearearea, The share areas, The share areas, The share are	Closed Loop Fuel Control before oxygen sensor behind fo	ha fault is logad in the control modulu's fault control modulu's fault Differ conditions: - Tropie on - None - VAP of option - None VAP of option - None - None None	- Nove None none	Cill cap not sealing     Cash in exhaust system before oxygen sensor     behind cash/or conventer     Y     Poor-seally seasine	Replace injectors	reduction: off CC message: none none	Possible apparent symptoms: - Engine runs poorly	Breakdown notice: - Loss of power - none
	the high-persuant had pressure exceeds 50 bar wher the ergins is swetched of.	- Otheaned electrical system voltage between 9 V and 16 V Temperature condition: - None				barg: of CC electronic angles over reductor of CC message: none		
MD/0712-         Page had pressure who may in shutters         That dispended function modules the like scored           MD000         Guardia:         That dispended function modules the like scored           MD000         Guardia:         That dispended function modules the like scored	- Defect in low-pressure	Temperature confidence -Norwa Time confidence - 3 acc where regime off - 3 acc where regime of - 3 acc where re	- 3 sec. after engine of . None	Defective nul-pressure sensor     Defect in low-pressure system     High-pressure system	Check low-pressure sensor     Check operation of fael pump	IS emissions warning lamp: off electoric engine power reduction: of	Possible apparent symptoms: Range from none to reduced power with following HDRmin fault	Breakdown rotics: None none
BUDD 0x82C 1134 Presentation/peam	the pressure level in the high- pressure level in the high- pressure hall system exceeds the specified value.	memory immediately. none - No high-pressure fault - None Voltage condition: - On-board electrical system voltage between 9 V and 15	- 3 sec. shirt angre on pone none	N - High-pressure pump descrive		CC massage: core nore nore lang: on CE electronic engine power reduction: on - CC message: on	Topowing PEDionis fault	
The degradic location models the high-	Potential problem source(p) - Dutector mit-pressure sensor Th - Datect in low-pressure	V Temperature conditor: - None The conduct: - None control modulin / Nutl: Other conditions:			Check rail-pressure sensor     - U     Replace rail-pressure sensor	IS emissions warning lamp: of		Braildean notics: The engine rewrite is its iter program, continued which operation is possible but defaultily is metriced, Recalus poser is method the default which iter parating
MEXCH7 >         Apply-press/s Maryline, cold disk Phenomena Face Maryline, cold disk Phe	- Detect in the pressure or      - Cold Start     - Pressure in the pressure in the high-     pressure system is 3.5 tare     lower than the spacelised	ha fault is logged in Bu order in makes in the second is second in the	Rai-pressure sensor voltage - None NO signal	P P P P P P P P P P P P P P P P P P P	Check low-pensaure sensor     Check operation of half pump     Replace high-pressure pump	electronic engine power reduction: of reduction: of rCCmassage: on lamp: on (Cf also-tonic engine	Possible apparent symptoms: - Loss of power	reduced the driver should refrain from passing maneuvers. None
	lower than the specified value. Potential problem acurce(s):	V Terrenation				lamp: on ICE electoric engine power reduction: on - CC message: on IS emissions warring		Breakdown notice: The engine rewards to bit line-home program.
MD/017.2         Test deputes function motion processes function         Test deputes function         Feature function           MD/017.2         Reg/seases function for the spectral work drags         P1020*         Cold Star Feat Proclam Test Lang Beyer 1)         And Spatian           MD/007.2         Reg/seases function         Test and provideration to spectral work drag         P1020*         Cold Star Feat Proclam Test Lang Beyer 1)         And Spatian	- Fuel tark empty Th - Defactive rail-pressure B semon Cold Start - Defact in low-pressure	his fault is logged in the Three condition: CCU fault memory if a	Rail-pressure sensor voltage - None NO signal	- Tank emply     - Defective sal-pressure service     - Defective sal-pressure system     Y     - High-pressure pump defective	Replace rail-pressure sensor     Check low-pressure sensor     US	lamp: off selectronic angine power reduction: off - CC message: on US only	Possible apparent symptoms: - Loss of power	continued vehicle operation is possible but drivability is restricted, backuss power to reduced the driver should refrain from passing maneuvers. None
	the voltage of the rail- pressure service is between 4.1 V and 4.8 V. Potential problem source(h):	Voltage condition: - Ondoard electrical system voltage between 9 V and 16			- 81	CE emissions warning lamp: on ICE electronic engine		
	Defect in wining harness     between DME and rail-     pressure sensor     Defection relicement	V Temperature conditor: - None Time conditor:		- Defect in wiring harness between DME and rail-	Chark witten homess hebesen DMF and rail.	power reduction: on - CC message: on IS emissions warning large: on		
NECO 2 Polymer Andrew Produktion Providence Contraction Providence Product Pro		Interpreter constance     Interpreter constance     The const	- Nove NO ID 5875	PRESSURE Sendor - Defective sal-pressure service - Defective sal-pressure system N - Defective DME	- Replace DME	Lang: cn slactonic ergine power reductoric ergine power reductor: on -CC message: on Active in US only	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text None
	the voltage of the nul- personne sensor is between 0.2 V and 0.3 V. Potential problem source(b):	Voltage condition: - Orboard electrical system voltage between 9 V and 16			- 60	CE entaisons warring Lang: on CE electoreic engine power reduction: on - CE message: on		
	- Contract processing	V Temperature conditor: - None logged when the fault - None		Defect in wiring harness between DME and rail- pressure sensor     Defective sal-pressure sensor	Check wiring harmess between DME and rail-     pressure sensor	- CC message: on IS emissions warning Large on electoric engine power		
METO 27.5     Post 2012	ors Fuel Rail Pressure Sensor system rem	logged under the fault - Note mains present for longer than 1 min. Terminal 15 - DME not in abutdoen phase - None	- Nova NO 10 5876	Oteracive asymptotic system     Orderacive asymptotic system     N     Orderacive advective DME	- Repair problem in high-pressure fuel system	sacconce engine power reduction: on - CC message: on Active in US only	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text None
	the matchine and pressure prior to empires state is 20 bbs, and a motioner lead or hail high-pressure clocking the empire appears following the empire state.	Voltage condition: - Onboard electrical system voltage between 9 V and 15			- 81	CE emissions warning lamp: on ICE electronic engine		
	Batastic and an example	V Temperature condition - Engine warred to normal temp, above 80 °C Time conditions:		- Defect in wring harness between DME and rail-	· Chark winter homess between DMF and roll.	composition Description Description CC message: on 25 emissions verning		
MCI072- B0200 5x897 11222 preserve senser yisability kinimis ne karali kini kini kini kini kini kini kini ki		logged when the fault - 10 sec. after engine start mains present for longer Other conditions: - Engine was	med to normal Read test data block; ,more than 80°C - 10 sec. after engine start NO ID 5876	Overal metry particular denotes the set of the provide the set of	Pressure sensor - Replace rail-pressure sensor - Repair problem in high-pressure haal system - Replace DME	lamp: on electronic engine power reduction: on - CC message: on Active in US only	Possible apparent symptoms: Reduced power	Breakdown nolice: Standard EML Test None
	mm reaction as pressure during engines operation is > 40 bar and a missize fault or a faul high-pressure fault is present at the same time.	Voltage condition:			-8	CE emissions warning Lamp: on		
	Potential problem source(x): - Defect in wiring human between DME and rail-	Voltage condition: - Ontoand electrological voltage between 0 V and 16 V Temperature condition:				CE emissione werning temps on CE electronic engine power reduction: on - CC message: on		
MC/0112         Fail presson wans: plausibly Momm         The degradis function motion is not degradis function         Four presson wans: plausibly Momm         Presson function         Four presson wans: plausibly Momm         Four presson wans: plausible function         Four presson wans: plausis flausible function	pressure sensor - Defective rail-pressure sensor Th - Defect in hib-oressure	- None Tree condition: Tree condition: control module's fault memory immediately. Terminal 15trons - None None	- Norme NG ID 5876	Defect in wining harmass between DME and nai- pressure sensor - Defective nai-pressure sensor - Defect in high-pressure system N Orderchar DME	pressure sensor     · Replace rail-pressure sensor     · US     · Repair problem in high-pressure fuel system	IS entializione warring Lamp: on elactronic angline power reductor: on <u>CC messager, on</u> <u>Active in US only</u>	Possible apparent symptoms: Reduced power	Breakdown notice: Swinderd EM, Test None
	the voltage of the low- pressure sensor is > 3.6 V.	Voltage condition: - Onboard electrical system voltage between 9 V and 16		* AMERICAN AND A	-8	Lot message: on Active in US only Large: off CE electronic engine cover reduction: of CC message: nove		
	- Wiring harness between DME and low-pressure sensor	V Tempenature condition: - None The fault is logged in the control module's fault Devr conditions: boxe		- Wining hamasa between DME and low-pressure sensor	- U	IS emissions warning lamp: off		
NECHT2 - And the pressure wanning, elabotic Stort chast. The dispute Locidin modulor the upper BICCOD 6-02FE 1224 In the second wanning with the the pressure wanner. P244 Lee Pressen Fail System Sense Creat High International Press, Second	sensor c - Defective DME r the voltage of the los- pressure sensor k < 0.3 V.	ha fault is logged in Bu orden induktion but memory immediately Terminal 15 - rome - None - Non	Read tent data block; - Norm NO (D 5974	sansor - Delter in kon-pressure sansor N - Defective DME	Replace DME	electronic engine power reduction: cet CC message: none none large: cft CE electronic engine	Possible apparent symptoms: None	Breakdown rotice: None None
	Potential problem source(s): - Wring harmsas between DME and low-pressure	V Temperature condition: - None			-u	kamp: off CE disclore: engine over reduction: off CC message: none r5 embalices warring		
NET OTT 2 And the operator service dediced. Durit data if the dependic function members the lawer and the control of the law and the law and the control of the co	- Defect in long-pressure Th sensor or - Defecting DME	Time condition: None control module's fault memory immediately. Terminal 15 COMP conditions: memory immediately. None - None	Read test data block; - None NO ID 5874	Wring harness between DME and low-pressure sensor Defect in Dow-pressure sensor N - Defective DME	Replace low-pressure sensor     Replace DME	large off electronic angles power reduction: off <u>CC message: mone</u> none	Possible apparent symptoms: Note	Breakdown notice: None None
	the voltage of the rail- pressure sensor varies by least them 5 mV.	- On-board electrical system voltage between 9 V and 16 V Temperature condition: - None				Lamp: on CEE diskctonic engine power reduction: on - CC measuage: on		
MEIO/7.2 The degradic function monitors the wandless	Defect in wing harness between DME and rail- pressure sensor Th - Defector rail-ressure of	- None Time condition: - None Other conditions: control module's tault - Engine on	Read text data block	- Defect in wining harmess between DME and rail- pressure sensor - Defective seif-pressure sensor	- U	/S emissions warning lamps on electronic engine power reductions on	Possible apparent symptoms:	Breakdown notice:
NC USUS 5007 1125. Pal pagene same planhily Spar Inpas in the sparling in a subject to the subject sector in the sparling in t	rs Fuel Rel Pressure Sensor - Letteron me-pressure of Paul Rel Pressure Sensor - Benefician - the self pressure face - beyond the specified level.	contro modella stalat memory immediately, none - Rati pressure exceeds 4 - None Voltage condition: - Onicoard electrical system voltage between 0 V and 16	- None NO ID 5576	Outective DME     Objective DME	Kepsos Livic	Resultance on Active in US only lamp: on Active in US only CEt electronic angles power reduction: on	- Loss of power	rone     -rone     -rone     -rone
	Potential problem source(iv): - Defact in low-pressure system - Defection mil-pressure	V Temperature conditor: - None Time conditon:			Low-pressure ECU (EKP electric fuel pump), read out disgnostic fault codes     Delete adaptation data for fuel low-pressure     - U	- CC massage: on		Breakdown notice: The engine reverse to its imp-home program, cominued vehicle operation is possible but
HEVOID 2.     High pressure for splant, he pressure     B00000 0x2000 11554 Maximum security according from an at the specified levels.     P00000 Po0000 11554 Maximum security according from an at the specified levels.     P00000 Po0000 Po000 Po0000 Po000 Po0000 Po000 Po000PO00 PO000 PO000PO00 PO000 PO000PO0 PO000 PO000PO00 PO00PO00	- Defective no pressure server Th - High pressure pump or ors Puel Ral Pressure Puel Ral Pressure bygother he specified lost.	his fault is logged in the - None - None - Other conditions: - memory immediately none - Engine ON - None	-None NO algosi	Pa - Defact in low-pressure system - Defective sul-pressure sensor Y - High-pressure pump defactive	Check rail pressure sensor incl. pluga/wiring - US harvess, replace as indicated      Replace high-pressure purpo	lamp: on electronic ergine power reduction: on Comessage: on none lamp: on	Possible apparent symptoms: - Loss of power	conserved which spectra is practicle but detablity is restricted. Second power is reduced the dever should refrain two parating management. None
	Potential problem source(s): - Defect in (ov-pressure	Viciting condition: - Orbitate electrical system voltage between 9 V and 16 V Verpendum condition:				Lamp: on CEE skildon: engine power reduction: on CE message: on		Breakdown rotice:
MD/0712- 80000         Fight pressure for pages, suf pressure pressure and users for its badren within the pressure and users of the page of the sufficiency.         Field Pressure, Page of the pressure and the page of the sufficience.         Field Pressure, Page of the page of	system - Defective rail-pressure seraor Th - High-pressure pump or	Temperature condition:	- None NO aloral	P - Defect in low-pressure system - Defective sui-pressure sensor - Vigh-pressure purp defective	Check rail pressure sensor incl. pluga/eiring     US      harress, replace as indicated	IS emissions warning lange on electronic engine power reduction: on CC massage: on none	Possible apparent symptoms: - Loss of power	The engine reverts to its in-ph-tomp program, continued vehicle operation is possible but drivability is restricted, because power is reduced the driver about drivin from passing measures. None
	rn, Fuel Ral Pressure detective r the rat pressure is below the specified level. Potential problem source(s);	memory immediately. none - Engine CN - None Voltage condition: - Onboard electrical system voltage between 9 V and 15 V			Check low-pressure system (filter, pump pressure and flow rate, sensor, pluga/wiring harness), replace as indicated p	CC massage: on none lamp: on CC electronic engine power reduction: on - CC massage: on		
The discussion functions the basis	Fuel tank empty     Obstruction in fuel filter     Fuel curve defective	V Temperature continent - None The second The second The second - None - No		- Fual tack empty     - Costruction in hall filter     - Fual pump detection     - Detector and pressure second		-CC message: on IS emissions warring lamp: on eductoric engine power reductor: on		Denaldown notice: The engine reverts to its line program, continued where generation is possible but dividually in stratical, Ascenae power is weakand the driver build of relian to lange particip. Marca
KECHT2	ors Fuel Rail PressureHigh-pressure pump r	ha tudi ta loggeti in he - None - Christian - None - Christian - Englise CN - None -	Rail-pressure sensor voltage - None NO signal	Pa - Defective all pressure sensor Y - High-pressure pump defective	Annual for the pressure party of the former of the pressure party of the party of	- CC message: on none	Possible apparent symptoms: - Loss of power	reduced the driver should refer in the passing matecoards the driver should refer in the passing management. None

		the eat pressure is below the specified level.	Voltage condition:		Check low-pressure system (Blar, pump langs on		
		specified level. Potential problem source(s); - Fual tank empty - Obtivation in fuel filter	Viblage condition: - Obtained decisical system - Obtained decisical any stem - Viblage is between P V and 50 V - Viblage is between P V and 50 - Viblage is bet		- Create buy events system filter, purp prevers and first and turner, displaying harmens, inginism an indicate prever shofter and the system filter how the system filter and the system filter harmens, inginism an indicate prever shofters on how the system filter and the system filter harmens and adsynctic that down and life maximum average     Util emainter average		Breakdown notice: The angine rewards to its imp-bone program,
MEV017.2- MEV017.2- MEV017.2- Memory and a second se	Pud Rail Pressure, Minimum Pressure Fallen Biolow (Bonk 1) Pud Regulators / Valves / Sensors I	- Puel pump delective     - Delective ang-pressure     - This fault is logged in the     samoor control module is task ast Real Pressure - High-pressure pump memory immediately. nor	- None Offer conditions: ne - Engine ON - None - None	Rai-pressure sensor voltage NO signal Y	Obmiction had tiler control     Obmiction had tiler     Obmictione - Obek tal passare senser led, plagslering - US electrole engine poer     Obek results annote, replace an indicated     Objectment program detters     Objectment program     Objectment prodram     Objectment program     Objectment prodram     Objectment program     Objectment prod     Objectment     Objectment     Objectment prodram     Objectm	Possible apparent symptoms: - Loss of power	continued vehicle operation is possible but drivability in statisticst, because power is reduced the driver should refain from passing management. None None
		the driver circuit diagnostic function.	Voltage condition: - Onboard electrical system voltage between 9 V and 15		lange on - 4CE Medicatic engine power induction on - CC manage: on		
MEVD17.2 Quarkly control valve, activation: Short circuit: the dispositio function monitors the low current walve control-activation with fur shorts to		Polacital problem sourced); - Defact in place printing harmans between DME and flow-counter when - Defactive flow-counter when - Defactive flow-counter anticital in bagged in the counter involving t	V V V V V V V V V V V V V V V V V V V	STEUERN_MSV, PVM activation signal,	Check in plags or wining humans between DME     Check plags and wining humans between DME     Check plags and wining humans between the      orted wines and DME     Check plags and wining humans between the      check plags and wining humans humans human h	Possible apparent symptoms:	Breakdown notice:
Registre Landson and Land	4 Part Volume Regulator Control Circuit Hath Fael Regulators / Volves / Sensors Fa	Volume Regulator valve control modulini tault Volume Regulator	na - Erging CN - None - None - None - Volage condition: - Obtand electrical system - volage between 9 V and 15	STEUERN_ENDE_MSV 0c592 N	- Deleting DBE     - DELeti	Reduced power	Norm Norm
		Potential problem source(s): - Defect in plag or wring harness between DME and fore-control valve	V Temperature condition		poer inguoso on         Comassge         Comassge         Comassge         Comassge         Comassge         Comassge         Comassge         Lottech plug or wing harness between DME         - Orack plug and wing harness between flow-         Large on		
MEV017.3- INGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3 Fuel Volume Regulator Control Cecut Low Fuel Regulators / Valves / Sensors Pu	Orfective flow-control     This fault is logged in the     valve     control modulin fault Volume Regulator     Orfective DMM     memory immediately.     nor     the driver circuit disgnatic	- None The condition: - None - Other conditions: - Engine CN - None - Volage condition	STEUERN_MSV. PVM activation signal, STEUERN_ENDE_MSV Dc58/2 N	and flow-control valve control valve and DME - US electronic engine power - Defective flow-control valve - Reptace DME reduction on - Defective DME - Reptace DME - CC maxage: on none	Possible apparent symptoms: Reduced power	Breakdown notice: None None
		function.	- On-base detectional system voltage between 9 V and 16 V		tamp on - CEC discloser seguin portium reductions on - CE manage on		
The diagnostic function monitors the Tote costed MEV017.2- Quantity control valve, activation: Like valves costed valves costed valves for open		Polacini granichem sourcoulo) - Deducti ingli Ange creating harmans between DME and Rove courrel solution - Defective Rove-coursel - Defective	- None Time condition: - None Other conditions:	STEUERN_MSV, PVM activation signal,	Detect in plug or writing harmass between DME     - Omadiplug and writing harmass between DME     - Omadiplug and writing harmass between DME     - Omadiplug and writing harmass between DME     - Util extension encoded writing harmass between DME     - Detective The one-context writing     - Detective The one-context writing     - Detective The one-context writing	Possible apparent symptoms:	Breakdown notice:
84200 0x2C9 11327 disconnection circuit P0001	1 Fuel Volume Regulator Control Circuit/Open Fuel Regulators / Values / Seracos Fu	Volume Regulator - Deficitive CMM memory immediately. nor the monitored pressure exceeds the specified pressure.	ne - Engine CN - None -	STEUERN_ENDE_MSV 0x582 N	- Defective DME     - Replace DME     - CC message: on     none	Reduced power	Nona Nona
		Protectial problem source(ii) - Boost-pressure service is deficitive or has been	Tergeniture condition: - None Time condition: - None Oter conditions:		- ECE instance sensing target of - Boost pressure sensor is deficite or here - CC reasings rem		
MEV017-2 Bost pressure corbst, upper value. Bost The daynotic function monitors the pressure	Tutbohangsi Supersharger 'A' Oveficoat	tampand with - Eluctorynounatic passure converter in washepate valve In detective I logged when the fault - Washingste valve is remain passed to for par	Other conditions: - Engine speed above 1900 pm - Engine load - Turbocharger boost in	STAT_ATLSVC_DPVDR2_W ERT must is within a defined pressure range (use list	Deam tampeous um     - Elsciropaurante presente converter in     - Elsciropaurante presente converter in     wastagalas valve its defective     - Check wining harmans     Internet and the internet in terminer	Possible apparent symptoms:	Breakdown rotics: The engine revents is its line-home program, continued vehicle operation is possible but drivability is natiriand, because power is reduced the driver should retrine bern passing
bl/c0012-b boot pressure correct, gipter vaue social init diagnostic function monitori we pressure BN2000 bo2C05 11200 pressure to high means to high means of the boot pressure sensor. P0224	4 Dentargen ouplefoldinger A Covercease Sopercharger Boost Pressure	- valaxigate valve is immana present for droger Pressure     defectua (walved in doald than 1 min. not     be motiloxed pressure is     leas than the specified     pressure.	ne control range - None - None	anuum, systement jan pressure range poo sant atatua_systement_at plan). N	Postport postbol     Postport     Postpostport     Postport     Postport     Postport     Postport     P	Possical apparent symptome - Reduced power	neoucid ne dreve anous retrain non passing maneuvera. None
		Potential problem source(n): - Boost-pressure sensor	Voltage condition: - Onboard electrical system voltage between 0 V and 16 V V Tennembure condition:		- SEE entration searcing		
		Detects advectorynomiastic preserve annuestic in weakingste solve detectory busies in sojor detectory busies in sojor detectory busies in sojor detectory busies in sojor detectory busiest in sojor detector	Temperatrice condition: - None Three condition: - None Coher conditions: - Enging speel above 1500		Subject Produces assumed reference     Subject Produces assumed reference     Subject Produces assumed reference     Subject Produces assumed reference     Subject Produces		Breakdown notice:
MEV017.2- Charge-air pressure control, lower value: Boost The disgrostic function monitors the pressure	Turbocharger/Supercharger // Underboost		- Engine load - Turbocharger boost in	STAT_ATLSVC_DPVDK2_W ERT must lie within a defined steuern_systemiest_st	position)     Outsignmann     Outsignmannn     Outsignmannn     Outsignmannn     Outsignmannn     Outsign	Possible apparent symptoms:	Breakdown notice: The angine revents to its limp-bonne pogsam, continued whole operation to possible but drivability is maintaked, because power its reduced the wine valued ration to no passing because the set of the reduced ratio to the passing because the set of the reduced ratio to the passing because the reduced ratio to the reduced ratio to the passing because the reduced ratio to the reduced ratio to the passing because the reduced ratio to the reduced
BN200 0x2C27 11331 pressure too low measured by the boost-pressure measure P1226	2 Condition Supercharger Boot Pressure	Pressure plenum has lask than 1 min. nor Colladore taut, orly serves to typer the emissions warring tarp, and can also togger a CC emissage. The	ne control range - None - None Voltage condition: - Ontoard electrical system voltage between 5 V and 16	atatus_ayaterriteat_ati plan). N	defective and statever plenum for veccum lineks -CC message on none linesp. eff -CCC electronic regions power reduction, eff	- Reduced power	maneuvers. None
		response to the fault is apacified for a different fault	V Temperature condition: - None Time condition:		- CC message: none		Breakdown notice: The engine reverts to its imp-home program, continued vehicle operation is possible but
MEVOT72- B0001 pressure control, deschwator: Boost- B00000 desC008 11552 pressure holdsay Boded deschwators at	TutochargerSupercharger Boset Control Cut- Off (Bank 1)	Potential problem source(p)     Control module in the     control module in the     control module in the     memory intradiately.     Termin     the boott-omages sensor's	- None Other conditions: al 15 - none - None - None	NO NO Y	- Liney on 102 decores experimente - Store - Store - Stores - St	Possble apparent symptoms: - Reduced power	continuer vehicle generative to possible bud developing in anticida bocasione to reduced the driver abudi refrain from passing meteorers. potent the engine.
		voltage exceeds 4.9 V. Potential problem source(s): - Defect in wing harman hotman DME and interest	Voltage conditional system - O-cound electrical system voltage between 8 V and 16 V V Turrependure conditor:		- The Mary in - CC distorts regime - CC manager in - CC manager in 		
NEVOT7-2 Bood pression answer, electrical Directional The dispetisic function membra has to the BIGGO 0x207 1175 by the bootspression areasy. P2228	S Turbocharger Spercharger Boost Sensor X Critrol High Supercharger Boost Sensor	P Anatia polisin socioloj - Defecti in vinje haveas braven: DEF and locat- persona anatori - Defecti in vinje haveas - Defec	- None Time condition: - None Other conditions: of 15 - none - None - None	Read test data block; NO ID 55DE N	- Suffici function statutes CME and      - Sude string hereases statutes      - Sude string hereases statutes exerce     - Sude string hereases statutes     - Sude string hereases     - Sude string hereaseses     - Sude string hereaseses     - Sude string hereasesese     - Sude string hereasesese     - Sude string hereasesese     - Sude string hereasesesese     - Sude string hereasesesesese     - Sude string hereasesesesese     - Sude string hereasesesesese     - Sude string hereasesesesese     - Sude string hereasesesesesesesesesesesesesesesesesese	Possible apparent symptoms: Reduced power	Braskdown noice: Standard SM, Tant None
		the boost-persone sensor's voltage is less then 4.9 V.	Voltage condition:     Onboard electrical system     voltage between 9 V and 15		Construction     Construction     Construction     Construction     Construction     Construction     Construction     Construction		
		Planting problem source(s) - Defact in revery harmans belowers DBE and board - Board sensus areary - Board sensus areary - Board sensus areary - Defacting DBE - and sensitivity of the sensitivity - Defacting DBE - and sensitivity - Defacting DB	V Temperature conditor: - None Time conditor: - None		Defect in wing hamas between DME and     - Check wing hamas between DME and boost- lamp: on		
MEVENT.2- BIO2000 04:2C70 11376 Boot pressure sensor, electrical: Short circuit. The dispositic function monitors the wire to the bioset/pressure sensor. P0220	7 Tubohaye/Superharger Boat Sensor X' Supercharger Boat Sensor Circuit Low Supercharger Boat Sensor	passare sendor     possare sendor     to control pressure sendor     defective UM     the control modules task     Electrical     the local pressure sensor     defective UM	- riche conditions: del ris - riche - None - None - None	Read test data block; NO ID SBDE N	bools pressure sensor     - Dools pressure sensor     - Dools pressure sensor     - Dools pressure sensor     - Defactive DME     - Registera DME     - Cit message: on     rome	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text None
		On bicolog-reasons arear deviates toron the average for the pressure arears (basenetic pressure, boost pressure, induce-manifol pressure) by four to the 70	Voltage condition: - Onboard electrical system voltage between 5 V and 16		- ECE ministrar saming transmission of the second		
During the control module's shutdown phase the diagonate hundown mention the basementic pressure searce, the amended pressure searce searce and the second pressure searce searce se		mbar. Potential problem source(s): - Defective withing hamman	V Temperature condition: • None Time condition:		- CC massage on - US ministers warring large on		
MEVOIT.2. BX2000 0x2CTI 11377 Boott pressure sensor. Pressure to high pressure. P1240 BX2000 0x2CTI 11377 Boott pressure sensor. Pressure to high pressure. P1240	Boest Sensor X Alternarring Dispose Pressure Too High Supercharger Boast Sensor	Sensor has been tampered This task is logged in the with control module's fault      Atterunning - Sensor defactive memory immediately, nor	- 5 sec. after engine off Other conditions: - Shutdown phase - None - 5 sec. after engine	off NO none N	Obticitive winty harmas     Obticitive winty harmas     Obticitive winty harmas     Obticitive     Obticitie     Obticitive     Obticiti	Possible apparent symptoms: None	Breakdown notice: None None
		the local-pressure surrace deviates from the average for the pressure surraces (barometic pressures, boost pressure, instake-marifed	Voltage condition: - Onboard effectical system voltage between S V and 16 V		- CC2 emission summy     ling on     · CC2 distribution on     · CC2 distribution on     · CC2 missingle on		
During the control module's shuddown phase the diagonatic function monitors the assumption pressure arranger, training and the module of the shuddown of the shuddown of shuddown of		pressaruh (p) jess than 70 mbar. Potential endern source/si:	Temperature condition: - None Thre condition: - 5 sics alter explain off Clear conditions: - Englain on to AMM - None - 5 sics after entropy		- US emissions warring terms on		
NEVIOT7-2     NOT22 11778 Boot pressure samor. Pleasure too be     Pressure areas of the same pressure.     P224	8 Boost Samor K Alamurring Daguosa Supercharger Boost Sensor	Aberunning     -Wing hamsa delective     This fault is logged in the     -Thir is neared     -Third in the logged in the     -Third in the     -T	Other conditions: - Engine on te - Total pressure > 4 MPs - None - 5 sec. after engine	off NO none N	Wing haves defactiveUS advorse organ pour     -Error is setur reasonmentOach wing haves - reduction on	Possible apparent symptoms: None	Breakdown notice: None None
		greater than 3.0 bar, or the absolute boot pressures is greater than 1.4 bar.	Voltage condition:		MY10 DCE samog		
		Potentia problem sourco(s); - Cherken hoospremasure system - Detect in wrong humans - Detect	Voltage condition: - Onboard fieldnict system voltage between 0 V and 16 V V Temperature condition:		- Direct in boost pressure system - Direct an boost pressure system - Direct and - Direct		
MEVD17.2. Boost pressure sensor, playability: Pressure The diagranic function monitors the boost	TurbochargenSupershanger X: Overhoost	- docat-pressure sensor I his taut is logged in the defective control module's fault	- None Time condition: - None Other conditions:	Read least data block;	Detect: multiply trainings between boots-     pressure sensor     pressure sensor and DME     pressure sensor     Boosi-pressure sensor     boosi-pressure sensor     boosi-pressure sensor	Possible apparent symptoms:	Breakdown notice:
R42000 Ap2CB 11285 before Anothe users to state. Phazes	Consistin     Consistin     Consistin     Consistin     Consistin	Pressure - Defective DME memory immediately. Termin Collective fault, only serves to higger the emissions	W 15 - P078 - P078 - P078 Voltage condition: - Onboard Michael system voltage between 9 V and 16	NO ID SED N	-Defective DME     -Register DME     -CC-measure.rm     rote     -CC-measure.rm     rote     -CC measure.rm     -CC mea	Reduced power	Standard EML Text None
		to bigger the ensistence werening having, and can also bigger a CC message. The response to the facilities appected for a different facil	V Temperature condition: - None		power relations on - CC manage: on Mr1110: - US entenions wentig		
MEV017.2- BX0200 0-02CH 11326 before Profix volve too low pressure amore, P0226	2 Condition Supercharger X Underbooat Supercharger Boost Pressure	Pressure Physical problem source(s): Pressure - None emerged in the control models Is last Pressure - None emerge immediately. Termin Physical pressure in hysical	Three condition: - None Other conditions: 0ther conditions: all 15 - none - None - None	Read test data block; NO ID 55DD N	Impe on	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EM, Test None
		ithan the anticlent bacomatric pressure while the explore is not numing.	Voltage condition:		MY10 ECE. - ECE emissions seeing targe off		
		Potentia problem source(s) - Dartic the boots pressure system - Dartic of wring humans - Dated or wring humans - Dat	Voltage condition: - Onloand electrical system voltage between 9 V and 16 V V Tempenature condition:		-CEC employs serving length -CEC dependent of all system [waterspin] -Defect to host-concerns servine     -CEC opendent of all system [waterspin] -CEC opendent of all system [w		
MENO172-3     Boost present server, planship: Present     boost present server, planship: Present     boost present server, planship: Present     Present     Present     Present     Present     Present	Charge Air Pressure in Comparison 16 2 Department Department Too Bells	defective control module's fault	V Formation Condition: - None Three condition: - None - None Condition: - None None - None - None - None	Read test data Mock;	Defect in wining harness between boost-     pressure sensor and DME     possure sensor and DME     boost-     boost-pressure sensor defective     boost-pressure sensor defective     boost-pressure sensor defective	Possible apparent symptoms: Bedrand noneer	Breakdown notice: Standard FME Text None
B1000 0x205 1327 norming pressure. P1072	Z Beronenic Pressue Too High Dependrager Boot Pressue Anthen Pressure	Constitution - Defective DME memory immediately. Termin Phe boar pressure is lower than the ambient teamwain: pressure while the engine is not running.		N DISDD N	- United two - Repaids Live: - LC massage: on none	Reduced power	Standard EML. Test None
		Potential problem source(s): - Defect in boost-pressure memory	Voltage condition: - Onboard electrical system voltage between S V and 16 V		4 M 16 62 - 452 minutes samp Samp at - 452 decore argan pour relation on - 452 minutes on pour relation on - 452 minutes on - 452		
MEVOT 2- Market Portfor waters, planshifty / Passawa MEVOT 2- Market Portfor water too law when ways and		Defect in wing harveas between boost-pressure server and DMF	Temperature condition: - None Time condition: - None Other conditions:		Detect in boards pressure system     Oesk virgel smeass behave:     Detect in viring streams behave:     Detect in viring streams behave:     Detect viring streamstreams b		
MEVIOT7-2     Before threads wake too low where expire exit     The dispression monitors the boost     Profit     Profit     Profit	Charge AP Pressure In Comparison to Bergnatic Pressure Too Low Supercharger Board Pressure/Ambient Pressure	- doordynessure arrowing         This lash logged in the constation           Constation         -DME delection -DME delection         memory immediately.           Termin bit driver closult degradic function.         Termin	All 15 - Engine OFF - None - N	Read-test data Mock; ID SECD N	DME defective     Pephasis DME     CC message: on     none	Possible apparent symptoms: Reduced power	Breakdown notice: Standard EML Text None
		Potential problem sourco(n); - Darlad in vering humans between compressor bysan vervees and DME	V Turnerwature conditor: - None Three condition: - None Other conditions:		berg of - CCC distance regis power walkdoor of - CC emessage on - US emission warring		
NEVOT7.5 BIGGOD BIGGOD BIGGOD Denter velow, actuation, Short cloud to Ele compressor bypass John Popole	Turboharge/Dujercharger Bypasa Valve X s Cented Grant Hah Sseencharger Bypasa Valve	Electrical     Compressor sygans were     in task is opgied in the     control models's task     Electrical     Confective DME     memory immediately.     Termin	- Control signal being al 15 Itanamited to compressor - None - None	STEUERN_ULV, STEUERN_ENDE_ULV PVM activition signal N	Defect in writing hamsas between compressor     bysas valve and DME     bysas valve and DME     commensure bysas valve and EME     Commensure bysas valve and EME     commensure bysas valve and effective     commensure bysas valve and effective	Possible apparent symptoms: Power reduction, CC massage for engine melhanction	Breakdown notice: None None
		the driver circuits diagnostic function. Potential problem source(s);	Voltage condition: - Chocard electrical system voltage between 9 V and 16 V V		mm Constant 200 Markets 200M		
		Detect of wring harmans between compares tryans valve and DME     Compressor tryans valve and DME     Compressor tryans valve     advective     advective     advective     control modules that     Electrical     Compressor tryans	Temperature condition: - None Three condition: - None Other conditions:		- US emissions warring	Possible apparent symptoms: Power reduction, CC massage for engine	
NEVIOT7-2 Directors 11401 Diverter velve, achadron Drot crisal to each compressor types unles. P0554	Turboohargen/Sopenrangen/Spaan Valve X' 4 Control Circuit Low Superchargen/Sysaas Valve	Compressor System volume     Compressor System volume     Compressor System volume     Compressor System	Other conditions: 46 15 - Cong None - None - Orbicand electrical system voltage between 9 V and 15 V	STEUERN, ULV. STEUERN, ENDE, ULV PVM activation signal N	Joseph and Standing Constraints and Standing C	Power reduction, CC maxinge for engine mailanction	Breakdown rotica: None None None
		Potential problem source(n); - Defect in wiring hammas between compressor bypass valve and DME	V Temperature condition: -None Time condition: -None Other conditions:		- US emissions warning		
ME10 17.2         bit 100         Destine value, actuation: Line disconnection         The disprantic busics monitors for line in the processing of the procesing of the processing of the processing of the procesing	3 TurbodsagerSignercharge Bypass Valve X: Cetest Oncul: Supercharger Bypass Valve	valve and DME - Compressor hyses valve defuguess valve Electrical - Defective DME memory intreviduely. Termin	al 15 transmitted to compressor - None - None	STEUERN, ULV, STEUERN, ENDE, ULV PVM activation signal N	bypasa valve and DME bypasa valve and DME - US electronic engine power - Compensant bypasa valve defective - Replace compensant bypasa valve - Defective DME - Replace DME - COmsessant: on none	Possible apparent symptoms: Power reduction, CC message for engine methanction	Breakdown notice: None None
		The fault is recognized when the airflow opplement from the throatile where is interrupted.	Voltage condition: - Onboard selectrical system voltage between 6 V and 16 V Temperature procession		lamp.off - ECE electronic engine power wild discrete off		
The dispiratic function monitors the competence Space was added to determine if it is		interruption. Potential problem sourcoly): - Salariad compensator hypasa value control moduluin it stati - Owner value detective memory immediately, nor	V V V V V V V V V V V V V V V V V V V			Possible apparent symptoms:	Breakdown rotice:
MEC(017.2 Do2C20 11402 Bloa-off who, mechanics: Jammed doxed setting in its clear prediments of a setting in its clear prediments.			Cribbard electrical system     voltage between 9 V and 15	NO none N	- Justic comprised pipes solar     - Comprised pipes solar     - Comprised pipes solar defects     - Repice Modeling     - Comprised pipes solar defects     - Repice Modeling     - Comprised pipes solar defects     - Repice Modeling     - CC message area     - CC message on	Possible apparent symptoms: Increased pumping noise from turbocharger	Breakdown notice: None None None
		The fault is receptioned by the driver circuit diagnostic function. Potential problem source(s) - Order(circuit)	V Vergening confiler Vergening Verge		- US emissions warring larger on		
MEVOT72- BN2000 0x3CA1 11425 Washingter value, activation: Short circuit to 8+ pressure converter: P0246	Turbochargen/Supercharger Weslagate Solarcid 6 X High	- Justicove wrong namesas     - Electropersuratio pressures     - This fault is logged in the     converter is detective     control modulin fault     - Defective DME     memory inneradately. non-	- Indrae Ober conditions: - Engine on re - Activation signal applied to - None - None	steuern, lds1, PVM activation signel, steuern_ande_lds1 Doleab N	- Sectory more generation     - Exchangement of generation     - Exchangement of generation     - Sectory more determine     -	Possible apparent symptoms: CC message, custome proceeds to service tacity, loss of power	Breakdown notice: None None

		The fault is recognized by the date of counts' degeneric fordation. Pennetal problem INSTAND()	Onesand addettoral system     oblage latences 10 Yano 16     Temperature condition     Temperature condition     Temperature     condition		6 Seguri di - CE divisioni regina - CE manage in - CE manage in - CE manage in - US manag		
BEI/C017.5 IN0000         Source Link         The display kink in the Direct should be a state of the display and the should be a state of the display and the should be a state of the display and the should be a state of the display and the should be a state of the display and the should be a state of the display and the should be a state of the display and the display a	Turbochargen/Supercharger Wastingele Solenoid 'X Low	Defective wing parentas     Electropreventatic parasus     Convente la defective     control modale taut     Defective CME     memory immediately.     rome	None     Ober conditions:     -Engine on     -Engine on     -Advantion signal applied to     -None     -None     -None     -None     -None     -None		Defactive wing harmsna     Defactive wing harmsna     Defactive resource converter is     Angelice electropressure converter     A	Possible apparent symptoms: CC message, custome proceeds to service none facility, clarification pending	Breakdown notice: None None
		The fault is recognized by the driver cloud's disgonatic function. Potential problem source(b):	voltage between 9 V and 16 V Temperature conditor: -None The conditor:		largn off - CCC electronic region poorer reduktion: off - CC manage: on - US embalance warning		
MELDITS B0000 00503 11527 Notingen solve activator. Line discretation - metano months. P020	Turbochargen/Supercharger Wastegale Solenoid	- Defective wing harmans     - Exections wing harmans     - Exections wing harmans     - Exections take     convertine is defective     - Defective DBS     - Defective DBS     room	-None Other conditions: -Engine on -Actigne sized applied to -None -None Maximum and/al	PVM activation signal, Ida1 Ordeab N	Othechies withing harmass     Oback wit	Possible apparent symptoms: CC message, customer proceeds to service none facility, loss of power	Breekdown notice: None None
		asrace behind the catalytic converter match to alway. Potential problem source(s):	Colourd etechnical system     Voltage between 0 V and 55     V     V     Perspendue condition     Engine warmed to normal		Lang: on - ECE disclorationic engine poewr reduction: on - If faults related to mixture control are present, - CC measure: on		
MECHT2. Crypto sensor after catalytic converter, the disputcie function montes the dynamic response of the crypton sensor tabled the	02 Sensor Slow Response - Rich to Lean (Bank	Defective wing humans     Organ searce behin     chabijite convester defective     Lankin herhanat system on     engine-alde of catabije:     control modulity tout	amp, abox 80 °C Time conditor: - al least 8 sec. owmun phase Other conditions: - Engine warmed to normal - al least 8 sec. owmun		repart base fint     - Defective wirting harness     - Order schwart hystein for finale under schwart hystein for lander sch	Possible apparent symptoms: MEL lights up when fault is detected in two	Breakdown notice: Continued driving in possible, but because the oxygen assets in oit mady for docate-boop control, convention of exhaut gases in the
REGOR DACED 1151 directos fron orbita lam, Barr asporter cella for constitur on central. P1364	1 Sensi 21 Urgen Sensi New	Solar Palacola Converse Palacola Politica any. 1021	Engine on Ismperature, more than 80°C (phase NO     Voltage condition:	000 IN	citibitis converter constitier - <u>CC results</u> core - ECE electrics engine powe reductors on - CC message on	nore conscions crime cross	ORBAY'S CONVERT WE BE MEDURE TRANS. NOR
NEVET 7.5	O2 Sensor Heating, Heater Error (Bank 1	Potential problem source(s);	Temperature condition: Time condition:		- US enhances warning barry: eff - US electronic projes power - weddoor: eff		
BIQ20 02/EE 1152 anneter lundon Teatr Sent	Samor 1) Orggen Samor, Front	Huater 0	Ober condition:     Ober condition:     Ober condition:     vibage between 9 V and 16     V     Temperature condition:	- Norm	0 0	new for I-10-03-450 Possible apparent symptoms:	Breakidown notice:
		The fault is recognized when closed-loop sensor nearch soo allowly to changes in the organ concentration within	Temperature confidence - Porjone wanted to cormal Weinpe, allow 40 °C Times and/once - Times and/once - Times and/once - Times and/once - Engine an		- ECE embailors seming lang: on - ECE elacitorie orgina power relations: on - CCT emage: on		
MILVOT-2.         Dogen trans-blene analysis consumer.         The disposed busices in busices modern in a dynamic.         megnetical the segmetical t	O2 Sensor Croat Slow Response (Bank 1 Sensor 1) Organ Sensor, Front	Digile concentration winn Die ablauit gau. Potential problem source(s): Potential problem sou	- Drive at a constant speed between 50 and 50 binh at moderate pm (1400 to 3240 pm) Engine warmed to normal		Corgan sensor before catalytic converter     - Replaces ongess sensor before catalytic converter     - Replaces ongess sensor before catalytic     restarts of the fearments in sensorship	Possible apprent symptom: - Mil. tanp light a up afte 2nd dhing cycle - Higher wakaut emissione - Higher fud consumption - Stage	Breakdown notice: Continued driving is possible, but because the oragene searce in ont mady for disad-bogn control, conversition of exhaust gases in the plausible; in ont plausible; perform cylinder whitemere entrollemene entrollemene entrollemene butteret in the searce of the searce of the searce of the searce of the butteret in the searce of the searce of the searce of the searce of the butteret in the searce of the butteret in the searce of th
PE000         dodf*         108         dynamics Bina response         assistive conventor         P013	Sensor 1) Oxygen Sensor, Prent	Scen response character of the califying detection that i make in the califying the ca	e - No fault hit wir wold duaase kerpenature, mone than 80°C - Hone ND - Ondoard electrical system rollsge tekenen 9 / and 56 V Temperanture condition:	PODe N	defective consister if like hequery is greater thin 3 - CCC message, none	nore - Surge	ostadytic converter will be aerioually impaired. balancing billowing repair
MEX017.2 Oxypen senser before calejot converts, in installation of the angues assure before the	OZ Service Eshwart Semple Error (Bark 1	Potential problem source(s); - Pre-catalyst oxygen samoor - Pre-catalyst oxygen samoor	Surgensitive confider. - Draps wared to consul worp, abox 80 °C Three confider: - None Other confider: - Engine warmed to normal		Lahor in nasale an inv conte passon - Determine an an part - physicity organ - Determine an an part - physicity organ sensor for - physicity organ sensor for - Phy-catalyst organ sensor for - Phy-catalyst organ sensor for - Physicity organ	Possible apparent symptoms: - ML tamp lights up effer 2nd driving cycle - Higher enhand emissions - Higher ful conservation	Breakdown notice: Continued driving is possible, but because the anygen sense is not mushy for dosed-loop centrol, convenient of ethomate gass in the
BIQ20 042P3 11312 installation Senser not connected catalogic converter. P2114	Samor 1) Oxygen Sensor, Front Ext	hwart Sample Enor not accredin in Sphily or than 2 min. non an electrical mathematics is present in the oxygon samor before the cably ic convention.	e - Engine CN Iserperature, more than 80°C - None NO - Onboard electrical system voltage between 0 V and 5 V Temperature confilion:	none N	lighty or harging in the air - Replice pro-califying any ensure - <u>CC manager, none</u> Amo; on - ECE electronic angles power reduction: on - CC manage: on	nore Sarge	catalytic converter will be seriously impaired. None
MD017.5 Copen server before catalytic converter, be eastance and the region catalytic converter, be	02 Sensor Reference Voltage CircultOpen	Potentiał problem source(s); - Defective wing humanas - Ocygo sensorz bołos cablojic converter defective cablojic converter defective	- Engine warred to normal     wrop, above 80 °C     Time condition:     -None     Cher a condition:     - Engine warred to normal	Read-out available from texter service STATUS_MESSWERTELOC K_LESEN : Argument name: UUSVI : or skenter toba/11	- Defective wing harmans     - Oneck wing harmas between pre-calabyt     - Ongen same before calabytic convertie     - Ongen same and DME     - US electricite     - US elec	Possible apparent symptoms: - ML tamp lights up after 2nd diving cycle - higher advanced emissions - higher had conservation	Breakdown notou: Continued driving is possible, but because the anygen senarce is not musidy for doseA-loop control, conversion of exhaust gaves in the
80200 0x27A 11516 fruit Live disconnection, Nema cable sense before the cable/or converter. P22/S	(Barek 1 Sensor 1) Oopgen Sensor, Front Po	aterence Voltage - Defective DME memory immediately. none an electrical mail/andion is premerir his oxygen senaro before the catalytic convention.	e - Engine CN Ismperature, more than 80°C - None NO - Onboard exterioral system voltage between 9 V and 15 V Temperature condition:	i N	- Defective DME - Replace DME - CC measure, now - ECE defactorie orgina power reductions or orgina - CCE measure, on	none - Surge	catalytic converter will be seriouply impained. None
MEV0 17.2 Oxygen sensor fullyin calajúci converter, the alignesis: function nurshos the controller is	O2 Sensor Circuit High Voltage (Bark 1 Sensor	Potential problem source(s): - Defactive wiring harmans - Orygen server before callebile converter defactive control modulus is suit	- Engine warmed to normal     wrap, above 80 °C     Time condition:     -None     Oher anothion:     - Engine warmed to normal	Read-out swillable from teater service STATUS, MCSSWERTBLOC K_LESSN': Argument mame: 102511 for identifier 102A11	Defactive wing harness     Organ senses before producting therease between pro-catelying the production of the defactive	Possible apparent symptoms: - ML targ lights op after 2nd driving cycle - Trigher administrations - Trigher had conservation	Breakdown notice: Continued driving is possible, but because the expgen senarce in not mady for dosad-doop control, conversion of exhaust gases in the
802000 0x0277 11513 separatives/Dantasadulu.8+ Per DMK Policies	1) Cragen Sensor, Front	Electrical	Ecopy CN	· N	Obtische DME     Obtische DME     Obtische DME     Obtische DME     Obtische Optie     Detechnister     Detechnister     Detechniste	nace - Surge	oatalytic converter will be aeriously impained. None
MEU017.2 Oxygen sensor fullyin calalytic converter, the alignesis function excitos the controller in	C2 Sensor Clouit Low Voltage (Bark 1 Sensor	Potential problem source(s); - Defective wing harmans - Orygen asmacr before catelyic conventor defective control module in taut	Engine warmed to normal     Imme, above 80 °C     Time condition:     -Name     Other condition:     -Engine warmed to normal	Read-out available from leafer service STATUE_MESSWERTELCC K_LESEN': Aspurent name: UESV1' or identian' toGA11	Defactive wing harness     Oxyges senses and Defactive wing harness between pre-catalyst     Oxyges senses and DME	Peaulule apparent symptoms: - ML lamp lighta up affect 2nd dhiving cycle - Trigher advanced emission - Trigher fuel consumption	Breakdown notice: Continued driving is possible, but because the anygen senser is not mush/ for dose4-bop control, commercian of exhaust gass in the
BI0000         0x000         1100         apped less-Short crust is serth         are 04/2         P0101	1) Oxygen Sensor, Pront	Electrical - Defective DME memory immediately. non	e - Englise ON temperatures, more than 80°C - None NO Voltage condition: - Orbitide decincial system voltage between 9 V and 15 V	N	Defective DME     Replace DME     Commange: none     Imp. on     Commange: none     power induction: engine     power induction: on     COmmange: on	none - Surge	catalytic converter will be seriously impained. None
DME, trianed Mul, organisation tables DME, trianed Mul, organisation tables The disputsic function motion the controller in	C2 Sensor Signal Circuit Adaptation Value Too	The fault is recognized when the corgan sensor chip in the DBM fanicus is taken. Definition of the sense of the sense logged when the fault Potential problem success): remain greater for longer	Temperature conditor: - Nane Time conditor: - Nane Other condition:		Only replace the DME if the fault increasing     only replace the DME if the fault increasing     research continuously of if the fault increasing     research continuously of the fault increasing	Possible apparent symptoms: - Engine rum poorly	Breakdown notice:
BI0000         0.0000         11523         upried circuit adoptiment volvem teo tright         The DBE         P3010	High (Bank 1 Sensor 1) Organ Sensor, Proet	ECM Ball-Test - DME defective han 1 min. non	e - Engine CN - None - None NO Voltage codion: - Orbitand electrical system voltage between 9 V and 15 V	none Y	-DME defective greater than 3CC message, none barry, cm -ECE electronic orgina power reduction: on -CC message on	none - Breakdown in extreme cases	- 1018 - 1018
DME, Hermel Mud, expans same before MEV:017.2 cablylic converter. Organ-sensor module. The disposals function numbers the controller in	O2 Sensor WRAF-IC Supply Voltage Too Low	The fault is recognized when the copyon sensor chip in the DHE detects a trut. The diagnostic fault code is logged when the fault Potential problem socially. In version present to longer	Temperature condition: -None Time condition: -None Other conditions:		-Orly replaces the DME if the fault mension     -Orly replaces the DME if the fault mension     -US electronic organs govern present continuously or if the fault frequency in     medicator. of	Peasible apparent symptoms: - Engine sum poorly	Breakdown notice:
00000 0x000 11014 untervelage 79 000 7214	(Bank 1 Sansor 1) Orggan Sansor, Front	ECM Self-Text DME defective than 1 min. non	e Engine CN - None - None NO Voltage condition: - Orbitand electrical system voltage between 9 V and 15 V	rone Y	- DME defective greater than 3 - <u>CC message none</u> hang on - ECE electronic engine power reduction on - CC message: on	none Breakdown in estreme cases	- 7008 - 7008
MEV017.2 DML, internal fault, organs sensor before the diagnostic function monitors the controller in	O2 Senser Initialization Error WRAF-IC (Bank 1	The fault is recognized when the corgon served drip in the DBL divertica is two Ball divertica is two Potential problem source(in): control module's fault	Temperature condition: - None - None - Other condition: - Other condition:		US emissions warning long replace the DME if the fault remains rement continuously or the fault requires (a medicion of	Possible apparent symptoms: - Engine rum poory	Breakdown notice:
B10200         0.000         1135         caleging consider Infallable only         Pe DME         P3034	Sensor 1) Oxygen Sensor, Front	ECM Self-Test - DME defective memory immediately. none	e - Engine CN - None - None NO Voltage condition: - Oriboard electrical system voltage between 3 V and 16 V	1004 I T	- DME defective greater than 3 - CC message: none temp: on - CC message: none - CC message: on - CC message: on - CC message: on	none - ontexación n'estreme cases	- rone - rone
MEX017.2 DME, Internal tauk, organs sensor before The diagnostic function markets the controller in	Q2 Sensor Disturbed SPI Communication to	The fault is recognized when the copyen sensor choin the DME denotes a tauk. Potential problem source(s): control modulin's fault	Temperature condition: - Nona Time condition: - Nona Other conditions: - Other		US emissions warning     largo off     - Only replace the DME if the fault remains     - US destroit explan power present continuously or if the fault hequency is     enduction: off	Possible apparent symptoms: - Engine runs poorly	Breakdown notice:
BI200 Su208 1152 antidix converter. Communication link the DMK Place	WRAF4C Bank 1 Senser 1) Croppin Senser, Poet	ECM Set Text		none Y	- DME defective	nore - Breakdown in extreme cases	- 1008 - 1008
The dispositic function revities activation of the heart of the source before the in the source before before the source before the source before the source	HC25 Husser Control Circuit High (Bank 1	Potential problem source(ii) - Defective wrining harmess - Oxygen service before control modulu's tauk	V While an approximation of the second secon		Defactive wing harness     Oxyges senses before processing and there are a sensing with the sense between processing and the sense are and the sense of the sense are and the sense are as a sense a	Possible apparent symptoms: - ML tamp lights up after 2nd diving cycle - higher advant entralores - higher ful conservation	Breakdown notice: Continued driving is possible, but because the owgern senser is not weakly for disead-doop centred, convention of exhaust agains in the
80206 0x008 11511 onvertie schwing Dort incut to 5- onkylit onvertier. P020	Sensor 1) Oxygen Sensor, Front P	Nester Electrical catalytic converter delective memory immediately. non an activation signal is transmitted to the organ asenarc before the catalytic converter and an electrical	e Engine CN - None - 10 sec. after engine start oxygen sensor Voltage condition: - Orbitand electrical system voltage between 9 V and 15 V	ropriste texter	- Oditsche DME - Replace DME - CC measure, nove	none - Surge	catalytic convertier will be seriously impaired. None
The dispositic function motivat activation of the heart of the single means balance that the the single means balance the the single means balance the the single means balance the single means bal	HO25 Heater Control Circuit Low (Bank 1	defect is present. Potential problem accord(s): - Defective wring harmans - Organ senance before control module's fault	Other conditions: used to deactive	afety a it can only be juste the	Origina sense before catalytic converter     Origina sense be	Possible apparent symptoms: - ML lamp lights and driving cycle - Higher enhance emissione - Higher full consequiption	Breakdown notice: Continued driving in possible, bud because the anygen senser is not mady for dosed-boxp control, convention of exhause gass in the
BI000 0x000 11512 converte, extrator. Part must be write analysis converter. P0031	Sensor 1) Coppen Sensor, Front 1	Nealer Electrical celability: converter deluction memory invendiately. nove an exclusion regro in la manufacture of the company instruct barbs the collability: converter and an electrical oblicit a present.	e - Engles CM - None - 10 asc. after engine start organisation Voltage condition: - Ordeout electrical system - ordege between 9 V and 16 V		-Detective DME     -Replace DME     -Creasage now     -Detective DME     -Replace DME     -Creasage now     -EEE electronic angles     power relocation: on     -CCreasage on	none Surge	catalytic converter will be aerioually impaired. Norwe
The dispositic function monitors activation of MEUDITZ. Output same hashing balance displays and the hashing the hases of the hases of the hashing the monitor that any game associated balance displays are associated balance displays.		Potential problem source(s); - Defective writing harman. This fault is logged in the - Origen senarco before control module's fault	Tempendam confider: anr/os estata - None (GTEUERN, L) Three condition: maponae to sail - 10 sac, safe engine start Cener condition: used to death.	2H1) > in afety i it can only be take the	Defactive wintig harness     -Ourde wintig harness between pre-catalyst     -Organ sensor ballow catalyst converter     -Organs sensor and DME     -US electronic groups power     -Replace pre-catalyst converter     -Replace pre-catalyst conv	Possible apparent symptoms: - ML tamp liphs up when 2nd driving cycle - Higher software instances of the system - Higher fuel consumption	Breakdown notice: Continued driving is possible, but because the oxygen senser is not weakly for dosed-boop control, convention of exhaust gass in the
BY0200 0x200 11533 onvierte attivition Line disconnection califying converter. P1020	HQ25 Heater Control Circuit (Bank 1 Sensor 1) Oxygen Sensor, Front H	Nealer Electrical calabijic converter delactive mamory immediately. nonv enter electrical and electrical electrical and electr	e Engine CN - None - 10 sec. after engine start oxygen sensor Voltage condition: - Onboard electrical system voltage between 9 V and 15	rbeater Point IN	-Defective DME     -Replace DME     -CCmmassage row     -CCC massage row     -CCC massage row     -CCC entraining wanting     -CCC massage row     -CCC entraining     -CCC massage row     -CCC massage row     -CCC massage row	nore - Barge	catalytic converter will be seriously impaired. None
The disposite function monitors activation of		an skelnical dikati is prevani. Potential problem source(s); - Defective wintig hamasa - Organi amarko beland contra modulua is taut	V Temperature confider: -Nora Three confider: -To see, shere engine start STEUERN_LS	\$HZ,	- Inspect wiring harness between oxygen sensor     - Ut emissions warring     - Defective wiring harness     - beind catalytic converter and DME     - brance oxygen arrow beind catalytic converter     - Reside oxygen arrow beind catalytic - Ut electrone errors oxygen		Breakdown notice: Continued driving is preakable, tact because the conjugati named a not may for disave-boop control, commont or disaved grains to the form
MECH712- Organisation United and Code, Park Same President Code (Code), Park Same For the surgest search belief the BADDDD 5x200 11533 convertine advectors Data Introd to 3- onder convertine . P5028	HO25 Heater Control Circuit High (Bank 1 Server 2) Crygen Server, Rear 2	Name Chechod - Organization Addicts Control modulin Multi Name Chechod - Organization Addicts - oncore (modulin) - oncore me textores rays in the meterical set for humane for the set of the complex multiple of the complex multiple of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the set of the complex multiple of the complex multiple of the complex multiple of the set of the complex multiple of the complex multipl	Other condition:         Final         Final         Effective         Effective <th< td=""><td>NDE_LSH2, rome N</td><td>defactive constant reduction of</td><td>Possible apparent symptoms: none - MIL lamp lights up after 2nd diving cycle</td><td>centrel, conversion of exchanal gases in the cetablytic converter will be seriously regained. None</td></th<>	NDE_LSH2, rome N	defactive constant reduction of	Possible apparent symptoms: none - MIL lamp lights up after 2nd diving cycle	centrel, conversion of exchanal gases in the cetablytic converter will be seriously regained. None
The diagnostic function months activation of		Potential problem assurce(s):	vollage between 9 V and 15 V V Temperature condisor. - None Time condisor. - 10 asc. where expine start STEUERN_LSS		- Inspect wining harness between oxygen sensor     - US emissions warning     befred wining harness     befred wining harness		Breakdown notice: Continued driving is possible, but because the
MPIOT 7.5 Dogen encore hading after category in the State for the single instance hading the NO2000 ad200 11038 conserting activation 20nd results and an addition 20nd results and addition 20nd results and additional additionadditional additionad additionad additionad additionaddition	HO25 Healer Control Choult Low (Bank 1 Sensor 2) Orygen Sensor, Rear P	Corygen sensor behind control module's tault catalytic converter detective memory immediately. none an activation signal is transmitted to the basiser for	Other condition:         STELEBIN, EN           - Engine (N)         - None         - 10 aec. after engine start         STATUS_LEPE           Voltage condition:         Voltage condition:         -	NDE_LSH2,	Corgans samas behind califyi canvinite     - Replace express names behind califyi califyi canvinite     - Defective OME     - Defective OME     - Defective OME     - Replace DME     - Core massage: error     - CC entrautive savering     Leagues	Possible apparent symptoms: none - ML lamp lights up after 2nd driving cycle	organ server in or leady for dised-loop correct, convention of enhance graves in the catalytic converter will be seriously impaired. None
		the coyen series behind the calible (converter and an electrical detects in present. Petertial content sources):	- Orbani dictorial system indiga bases IV and 15 Very provide confident - Very Three confident - 10 tase, after engine start STELEPIN_LISS		power reduction: on - CC message: on UP and a second sec		Breakdown notice: Continued driving is possible, but becase the
WEVEY2     Organ associatating dar catalytic     BR0200     dsD11     1537     convertix activation     List     Convertix activation     List     Convertix activation     List     Convertix     Convert	HO25 Haster Control Circuit (Bank 1 Sensor 2) Oxygen Sensor, Rear a	- Defective wing harness     This fault is logged in the     - Oxygen series behind     control module tault     heater Electrical     cashiptic converted reflective     mony immately,     nony	- 10 size after expendant     Other condition:     STULURN, EN     Expendence     Chickned elactical system     robusty steam 0 V and 0	542, NDE_L542, 12 none N	Durkste withing tarness     Durkste withing tarness     Durkste withing tarness     Durges same tarbeing daily/constraints tarbeing adjace constraints of DBE     Durges same tarbeing daily/constraints     Durkste DBE     Durkste	Possible apparent symptoms: none - ML, kamp lights up after 2nd driving cycle	asygen senser is not ready for doaed-loop correct, conversion of exhaust gases is the onthights convertier will be sentously regained. None
The dispetitic function methods the difference		the actual internet institutions of the harder for the encygen senses behind the catalytic consolver array the sense of the sense the sense of the sense of the sense the sense of the sense of the sense the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the sense of the s	robugi extrant v v no to V Temporature conditor: - None Three conditor: - Engine of for langer than		tange on - CEC devotore region pour relation on - Orack wing hansas helesen organ search - Devoto wing		Because disgraphic relies on assessment of the post-stativity organisation of the following logging of a disgraphic fault code the
MICROIT-2         Doubling         Descent Processing of the standard stream         Instances Processing of the standard stream           MICROID         DOUBLING         Outpoint stream         Notification stream         PO141           MICROID         DOUBLING         Stream         PO141         PO141		Potential problem socicity; li logidi uhan he faut - Defactive witring harmens Heater Electrical - Oxygen sensor behind velayed Response	13 min. Other conditions: • Engine ON - None 13 min. none	none N	Defective wing harmess     Oxygen sensor beind catelytic converter	Possible apparent symptoms: none None	holowing opgyr or a sayroun: hav cool me exhault yeter mut be hereded for lake Breakdown rotics: and saxed any lakage is found (without None addecrait repart)
		the voltage of the corpora sensor behicd the costal/oc converter remains consistently too low.	Voltage condition: - Chicard electrical system voltage stetemen IV and 16 V Temporature condition:		ECE enlasions waning tamp: on     Check the connection between the DME and     ECE electronic engine		
		Potential problem successful - Matter too Isain - Laski na sharad system m - Sharkov writey humans - Onderse writey humans - Onderse writey humans - Onderse writey humans - Onderse write human - Sharkov - Sharkov - Sharkov - Onderse write human - Sharkov - S	Engine warrend to normal terry, below 80 °C Time condition: Norm		the cospera sense behind catalytic converter     power reduction: on     - Motore too lean     - Leak is softwart system on ergine-side of     the words monthly constant is on - CC message: on     the words monthly constant is on the sense of the		Breakdown nolos: Continued driving is possible, kut because the
KE/OT7-     Dogos anno she calify: converte,     We departe function unders where the     Organ anno she calify: converte,     Vege of the organ series she calify:     Doc000 (bx07)8 11547 system check Styred Seaf in texe.     P2270	02 Sensor Signal Based Stuck Lean (Bank 1 Sensor 2) Caygen Sensor, Rear	converter The diagraphic full code is - Order twing haves as - Organ sanso balled in unable - Organ sanso balled in unable - Signal Chack cabilityic converter delective than 10 min. more	Other conditions: - Ergine and the to - Standy-dask at here to - Standy-dask at here to - Bright partial bad temperature, more than 80°C None NO	none N	Output and put of the second sec	Possible apparent symptoms: MIL liphta op when fault is delected in two consecutive driving cycles	Continued driving to peakles, but Hoccase the anyon means that made for deal-loop control, conversion of andward gases in the onling/itic convertient will be seriously ingained. None

MEXCIT2-     Opportance after calcylic scinnars,     Sha adapted cyclol institution industrial as     withing of the region scinnes after calcylic     writing of the region scinnes after calcylic     write calcylic     writing o	Cit Server Styrd Baser(Shuck Hub Shuris 1 Server 2) Cryptor Sarrow Rear Styrd Creat	No indepartic regime         Observation stands of control system           Second that do confrict         Verpartic function stands           Constraint material         Verpartic function stands           Constraint material         Verpartic function stands           Panded regimes	-Marcin top that     -Marcin top     -Marcint top     -Marcintop     -Marcin top     -	None
		Tes hash sampiser and Tes hash sampiser and	- 152 empirios saving large m - 252 education for - 252 escape m - 252 escape m	
BEX0773         Corpus neuro adu catada consuro.         The departis function methods abated salar of no upper unare labeled participant in the same series and aduption of the consent.         P0138	D2 Senser Circuit High Volkige (Bank 1 Sensor 2) Drygen Sensor, Rear Electrical	Organ server Jahrel Than a langer free server	One was been and been a	None
MDOT7-J. DODD VDD 1952 VISS decision der cabije: converte, DODD VDD VISS visions der cabije: converte, visions de vergen senuer betre cabije: PSIST VISS VISS VISS VISS VISS VISS VISS	Or Sense Crost Law Yologe (Bark 1 Senser p Orygen Senser New Electrical	The bulk supported with an exceptor within a support with an exceptor within a support with a suport with a support with a support with a support wi	- Detection were press - Dete	Neos
NO017 3 Corgan server after cablytic convelier, The disputcit function motion for rangem B0000 GLC00 1155 electrica La disconnection enabled cable(c.convelier, PD105	Or Sever Oracl Best 1 Sever 2) Organ Saves Rear Electrical	The bulk surgestar share are leaf surgestar share parter 1.6 togothy and the surgestar share parter 1.6 togothy and the surgestar share parter 1.6 togothy and the surgestar share share bulk of the surgestar share shar	<ul> <li>- Department programmer - Department programmer - Department programmer - Department - Department</li></ul>	Norm
Oppget senses before stability convention, parage power calles, Oppget senses andreil MIG00172-3         The disputation, functions the writige at writing the three based base of the three based based oppgets assume taken the stability.           BND000         6x000         1955         cells         provide         P2018	02 Senar Landa Contoler Valar Rone Threaded and Open Punying Cancer Could (Bits 11 Senar 1) Organ Senar Free Pushin Cuneri	m / address         - Oscinar discritizaria         - Oscinaria         - Oscinari	Obstance         Obstance         Description         Basics         Basics         Basics           -Obstance	Norw
MINOT7.5 Organi serve belan cablyk samwala n The departs, fundom motion flav utga at management motio, figura atala fan	C2 Senar Out of Range During Destantion	Pastag pastag and pastag pa	- CEX ensures suring - CEX ensures suring - CEX ensures suring - CEX ensures suring - CEX ensures are -	
ENGINE         Col:S4         105         value         comprise         F227           File	Best Server ()     Organ Server, Port     Deceleration	Applicing DBC motion matrix most first programmed by the prog	Other and Constrained Research and Constr	Non
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MC077.2         Dogst starter and trading cardiation and the control shart and	Of Second York Control Control Charact Only Character Second Character Sec	cate/or constrained address         under catalactive         Object catalactive <th< td=""><td>Address         -Begins pre-stalpt argenerant         Indian off         -Higher Add argumption         control of shalp gains in the origin control of shalp gains in the -Commany.com           - Objects DDE         -Commany.com         none         -Segme         objects control of shalp gains in the origin control of shalp gains in the shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent c</td><td>None</td></th<>	Address         -Begins pre-stalpt argenerant         Indian off         -Higher Add argumption         control of shalp gains in the origin control of shalp gains in the -Commany.com           - Objects DDE         -Commany.com         none         -Segme         objects control of shalp gains in the origin control of shalp gains in the shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent control of shalp argent c	None
MDOT2- MD		An an apparts (above) V V V V V V V V V V V V V V V V V V V	Image: second	None
Mb0073_ b0000         6x000         1571         Coppe areas halos catalyc amerily optim deals figurit fuer false figurit fault false         The disputation nuclein her solid program man and in program false her solid program false her solid her solid program false her solid her solid her solid program false her solid her solid	Of Server Spirel Reset Stank Lian Blerk 1 Oxyan Server, Ferst Spirel Daub	The scale is a patient scale is a scale in the scale in the scale is a scale in the scale in the scale is a scale in the scale in th	- Juged origination between organ - unare defaulted ordatig converse - Obtaches werge neurons     - Obtaches mergen neurons     - Obtaches merge n	Nore
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RV000         0x003         1107         approximates Spyrified of general         Per catalysis consider (of lambda = 1)         77136	Enver(1) Doyan Server, Terr Egnel Clack	Congresses half me meny termediativy new term Valence stars terms, max, the Well set of the stars term of the stars Well set of the stars term of the star	- ECE criterium metring - ECE criterium europe - ECE dedictor europe per Cardination europe - ECE dedictor europe - ECE entre europe - ECE e	Nore
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MD/0712         Model         Valuation: adjustment regregation (solid) methods have be adjuster of regress with Shore beau being data straight error under Shore beau winners (b)         Photographics (solid) methods have be adjuster of regress (solid) methods have winners (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have been beauting the unitide's printers (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have been beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photographics (solid) methods have beauting the user of the unitide's printers (b)         Photograprinters (solid)         Photographics (solid) method ha	WT-Salt Learning Function Faulty Adjustment Velocities (VT) Salt Learning Function Regin (Back 1)	Packed pakes standy)         Imp, and to C         Imp, and to C         Imp, and to C         Imp, and to C           -Ware at the model         -Adjustment on pack         -Adjustment on pack         -Ditable packet on pac	Negative transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the transformation to the transformation         1-28 minutes wering the performance of the	None
KE/00172-1     Velenarcia, educationar range Range data,     Nor dependent, Ledicarmondine de adjustment     monge datage bis discut of a Velenarcia     Nortice     Nort	W1 dal Lasning Fundon Fundy Adjustment Bergel Bick 11 Velotizes (V07) Biblisenting Parties	Panded gathers sound()         These sound()         Againset range chast         Againset range chast         PSTEMD/RECK, VT, ARRC           - Were it is hand in the Vachersic         - Againset range chast         - Againset range chast         - PSTEMD/RECK, VT, ARRC         Vachanger ()	- New of Notice's Indiana Section and Sect	Non
MD/0712         Justice         MMOD Submini rules advanting Suit         Des disprate Social reveales the winit in the social table.         Proceeding social reveales the winit in the VMOD several rules.         F2300	A Censbut Puster Assain Center Crist Big Briel, D. Censbut Puster Advance Islan Electron	Packad projekti sucupity         V           - Dada ning packan sucupity         V           - Dada ning packan sucupity         Personality           - March ning packan sucupity         Personality           - March ning packan sucupity         Personality           - WOOD subord value         The ball is baged in the	- Deter to etter planess helland at - Deter to etter planess helland at - Deter to etter planess helland at - Deter helland at	None
MEDIOT/2-1         Fash VMOS shared value, shared value, shared set         The dispetitive function numbers fits with the set         P2008           MODIO         6x000         1002	A Cended Politic Acade Cond Crist Lee Rote 1) Cended Politic Acade Index Sector	Default and any houses     Imperator conducts     Imperator conducts     Imperator conducts     Imperator	- Deter in wing herman histowa DBE and - USE allowards warding - USE allowards and/or - USE allowar	None
MEXOT7.2     Heale VMXOS silverof valve, schuster. Une      Mexagenatic tontion monitors the winit the      MIXOS allocation      MIXOS      MIXOS     M	X Censhell Parton Acuter OnoxOgen (Bird 1). Censhell Paston Acuter Index Electrical	Paramet parlame strandy Definition of the strangest of t	Detect neurophic metabolismes Differed     Detection metabolismes     Detection metaboli	None
NE01772         Vesile cambititing condit/(MAC).         The disputs factor motion adjusted of the status cambit during bit cample.           80000         5x054         1504         enhall, ool and on ot combities.	Cold Start & Candwall Paration Transp Quar- Restored (Start 1) Common Paration Transp Quart Start	Adjust is for yourbul protecting protecting services of the service of the servi	-On-sket all weit, design soger soft soft stars -On-sket all weit, design soger soft soft stars -On-sket all weit, design soger soft soft stars -On-sket all weit, design soger soft soft soft soft -On-sket all weit, design soger soft soft soft soft -On-sket all weit, design soger soft soft soft soft -On-sket all weit, design soft soft soft soft -On-sket all weits soft soft soft soft soft soft soft so	Nova
No. 60772- No. 2009 (no.000 for the second strang control (VAND) No. 1999 (no.000 for the second stran	Cell Ser X Cambel Partin Tring Gase Restel Bits 1) Cambel Partin Tring Cell Set	algade for specified mathematical and an expected of the specified of the	- Octa de lord, chego argo al refferar a - Contentrate al ganzage al VIXOS allowed - Octamente al ganzage al vIXOS - Octamente al model ganzage - IXISO (SSS) - Octamente al vIXOS - Octamente al model ganzage - IXISO (SSS) - Octamente al vIXOS - Octamente al model ganzage - IXISO (SSS) - Octamente al vIXOS - Octamente al model ganzage al vIXOS - Octamente al model ganzage al vIXOS - Octamente al model ganzage al vIXOS - Octamente	Nene

		the actual argin fails to conform to the specified angle while the angles is naming.	Onboard electrical system     voltage between 9 V and 16     V     Temperature condition:		- Check of level, change ergine of and ther as indicated     - If suits related to the cardwid position	- ECE emissions warring large on - ECE declotic regine		
		Potential problem source(s): - Contaminated oil passage at VANDS solemoid valve - Oil pressure too low	Inframentario Contanta     Inframentario normal     Inframentario normal     Inframentario normal     Inframentario     Time condition:     - None     Obte conditions		- Ortanninated of passage at VANCIS selected     - Ortanninated of passage at VANCIS selected     amore Two bases figure 1, ore these first     - Orack writeg harmans batween VANCIS     - Orbit on two passars to to bas     - Orbit on two passars to VANCIS selected     - Orbit on two passars to VANCIS selected     - Orbit on two passars to VANCIS selected	ECE delations expine     power reduction: on     - CC message: on     -US emissions warring     Fault leads to ATLCTLmax (/C Test LEL4:	Breakdown notice:	
NECOT25 The displace sector restores the candidate sector restores the candidate sector restores the candidate sector sectores the candidate sector sectores the candidate sector sectores the candidate sectores and	Carrahalt Intaka Souck	Defect in wring harness to VANOS solenoid valve - VANOS solenoid valve selexed selexed than 1 min. none	Engine an     Specified/autual angle     difference exceeds 15"     Fingine warmed to normal     crankuhait     temperature, more than 80"C     - None     Yes	NO. N	Defect in withing harmass to WANDS sciencial valve     wave     VANDS sciencial valve saliced     VANDS sciencial valve defective     VANDS sciencial valve defective     valve	Import         78boot pressure control, deschration: Boot- pressure generation daskloff. / C Booc-Heig reductor: on         11.05:105200 / 0r120000, PC (Desc-Heig) / 4.         Pussbie apprent symptoms: 1.05:105200 / 0r120000, PC (Desc-Heig) / 4.           - CCT message: on         11.0322 / 0a20500         - Engine mm poorly.	The angine reverts to its emergency imp-home program, continued vehicle operation is possible, because power is reduced the driver should extrain from passing maneuvers.	Norm
		the actual angle assumes the apacified angle to story while the explosit as storing. Potential problem source(r)(:	Voltage condition: - Obboard electrical system voltage betwen 9 V and 15 V V Terrepresentare condition:		- Check of level, change engine of and filter as	- ECE emissions warring		
		Contaminated of passage at VANOS solenoid valve Oli passaure too low O befortive wints or plug	Engine warred to normal     Wrm, box 80 °C     Time condition:     None		indicated - If faults related to the cumshalt position aeroson have been logged, repair these finit sector have been logged, repair these finit - Conclaving harmas between VMXOS valve	lange on - ECE electronic expine power reduction: on - CC message: on		
MPC017.2         VMODIsate Control full, pasternet         The degradit function monitor the canalith         X Canada Turing Dava Reg.           800000         0x000         1011         maximal         The degradit function monitor the canalith         X Canada Turing Dava Reg.	led Carrahafi Position Timing Intaka	terminate on VANOS solanoid valve The diagnostic fault code is - VANOS solenoid valve seized remains present for longer		ENWS, INDE_ENWS,	Ol pressure too low     Ol pressure too low     Ol pressure too low     Orec carrantel and VANOS inter freedom     Orec carrantel and VANOS inter freedom     Oladod valve salarid     Oladod valve salarid     Oladod valve salarid	-US ensisten warring Faul kadu to ALTC/Tune V(C Test LGL4, Iany: cm - Boost systems control, disarcharitor, Boost- US electors: engine power reductors: on LG 105000 (or129408; FC (Dec.Hes) L4 CC message: on 11352 (aCC30) - Engine runs pooly	Breakdown notice: The engine reverts to its emergency imp-home program, continued vehicle operation is possible, because power in endocate the driver should whisin from passing maneuvers.	
BODD0         6xD08         11811         readwd         tirrig algubrest.         PO12         Bleix ()	Caracian Foreign Transport		- On-board electrical hystem voltage between 9 V and 16 V	ms nv n	-VANOE solmoid value defective meaned     -Check of level, change engine of and filter as     indicated	- FCE aminutes summer		PICAR
		Potential problem source(r): - Contentniand of parage at VANDS solatentid valve - Olip pressure too low	Inframenta containe     Inframenta containe     Inframenta containe     Inframenta containe     Inframenta containe     Inframenta containe     Obter conditione		- Certaininated of passage at VANCS seland     - Certaininated of passage at VANCS seland     valve     - Oteck wide parenate batterer VANCS     - Drack wide parenate batterer VANCS	lang: on ECE declarist engine power reduction: on - CC measage: on	Breakdown notice:	
NEVOT73 - S2000 11050 VXXX2 ensues control link, campet land. International Internatio	Carabali Esbaut Stock	- Letter in Wing harmas to VANOS solencid valve - VANOS solencid valve - VANOS solencid valve sejard present for longer sejard processor for longer sejard processor for longer processor for longer	Engine on     Opcified/actual angle     difference exceeds 15*     engine warmed to normal     difference exceeds 15*     termembre more than RVC binse     Yas	NO N	- Un pressults to low     - Defect in write parmeas to VMOS solenoid     - Defect in write parmeas to VMOS solenoid     - VANOS solenoid valve asized     - VANOS solenoid valve defective     respired	-US emissions warning Fault leads to ATLCTLess (FC Test LBL4: Tool-spease control, dead-rotator: Bool- last extensive regress pressure speasers deadlers dasbald?; FC (FDu-1He) reductor: on 10:103000 (nC12000; FC (FDu-1He) L4: CC massage: on 11:302.007/CBI - Engine non poort	breakopan holics: The engine reverts to its emergency larg-home program, continued vehicle operation is possible, because power is reduced the driver should athein from passing manevents.	Norm
		the actual angle assumes the specified angle too slowly while the angles to anony Potential problem scorce(h):	Voltage condition: - Chocurd electrical system voltage between 9 V and 16 V V Terresentum condition:			- ECE ensistons warring Large on		
		Contaminated of passage     at VANOS solenoid valve     Of pressure too low     Offerensure too low	Engine warmed to normal     term, slove 80 °C     Time condition:     None		Check of lower, dramper anyon of and filters as indicated - Contaminated of passages as VANOS scienced - Contaminated of passages as VANOS scienced value     value     value     value	- ECE electronic engine     power reduction: on     - CC measage: on		
MECOT7         VXOC, enland Control Rull, position not         The deparative function monitors the canalist         TC Canadia/Turbulins. Tring Dou-Rule           MECOT7         0x200         1017         executed         through address.         P0015         Balar 51	led Carsshalt Position Timing Eshavat	Iserninatic on VAHOC Sociencial valve - VAHOC Sociencial valve - VAH	Other condition: - Engine - Specifiedinitiati difference accesses 157 - Engine warmed to normal difference accesses 157 - Engine warmed to normal STELUENL_E - None - STATUES, With	NNVS, INDE_ANVNS, MS NO N	Our parameters too low     Our parameters too low     Ourse careful and the set of	-US ensisten warring Fault lands to ALTC/Trans (PC Text LGL4, Iany: cm - TBoots resume control, districtions: Root- US electoric angles power reductor on LG 105000 (cm 22400; FC [Dec./Mos) L4 CC massage on 10329 (20230) - Engine rans pooly	Breakdown notice: The engine reverts to its emergency: flip-home program, continued vehicle operation is possible, because power is neduced the driver should refrain from passing maneuvers.	Nerra
		the driver circuits diagnostic function.	Voltage condition: - Onboard electrical system voltage between 9 V and 95 V			Lang: on - ECE declarations on - CCC message: on		
ME/DIT2 Exhaul VMOS salenot win, shaular: The daptact: function months the area to the Transmission of Countral Particle Actuator Control C		Potential problem security: - Deflect in wing harman batesen DME and VMXOS solveroid walve - VMXOS axiencid walve - that fault is bagged in the control modules it fault	Temperature conditor: - None Time conditor: - None Other conditions: STEUERN_AI	NW/5, PWM schwiton signal,	Defect in wining harmess between DME and VANDS stored value -VANDS solencid value -VANDS solencid value -VANDS solencid value     -Replace VANDS solencid value	- US entializes warning lamp: on US ekotoric angine power reduction: on CC maximum, participant, subplicitors.	Breakdown notice:	
BO300         bit058         11075         Shorr cloud to B-         VAXOS scienal toles         P3001         High Bank I)	Cemehalt Position Aduator Esclarad	- Defective DME memory immediately. none the driver circuit's diagnostic function.	Engine ON - None - None STEUERN, El Voltage condition:     Onboard electrical system     voltage between 5 V and 15	INDE_ANWS Dele75 N	- Defective DME     - Replace DME	- CC massage: on none deadivation	Norm	Norm
		Potential problem source(µ): - Defect in winny hummas between DME and VANOS solenoid valve	V Tempenshare condition: - None The condition:		Defect in viring harness between DME and     Check wing harness between DME and	powr widudios on - CC message: on - US emission saving lamp: on		
ME(2017) 3 Cambrid Validation of the scatatory Te departed function reviews the test to the BIOGRO 0.2020 1070 Department of the scatatory VAIOS sciences and the science of the science	ult Carnahaft Position Actuator Exhaust Electrical	solveroid value     solveroid value     -VAVCG suinced value     order of the diverse of the control module to tage     order of the diverse of the div	Voltage condition:	NWS, PWM schwiton signal, NDE_AWVS 0x4a7b N	Dedict is wirtig humans bitwen DME and WANC stancist wire VANCD submits when VANCD submits when venture Detective DME     Over the standard stan	US electoric engine power reductor on CC message, performance reduction, tudo CC message on none deadowion lange on come deadowion	Breakdown notice: Norw	Norm
		Potential problem source(s): - Defect in wiring hameas between DME and VANOS	Choburd electricitystem     voltage stewers 9 V and 95     V     Tempenature conditor:     -None			Impro n ECE descrise regree power relation: on - CC measure: on -US emission: warring		
ME(X0773         Edward VARCS school rate, station: Une flag days for the site is the school rate, station: Une days for the site is the depreter backing region and the site is the depreter backing region and the site is the school rate, station: Une school rate, statio: Une school rate, statio: Une school rate, station: U	en Cartabelt Position Aduator Exclusion	solancid valve - VVAOC submick valve - VVAOC submick valve - Celective, DME - Celective, DME - remonor immediately, none. The engine is burning over	Time condition: - None STEUERN_AI Offer anditions: - Engine CN - None STEUERN_EI STEUERN_EI	NNVS, PWM activation signal, INDE ANV/S 0x467b N	Datket in wing harmas between DME and VANDS solenoid valve VANDS solenoid valve VANDS solenoid valve VANDS solenoid valve VANDS solenoid valve Replace VANDS solenoid valve Replace VANDS solenoid valve Replace VANDS solenoid valve Replace VANDS solenoid valve	lamp on US electronic angle power Possible apprent symptoms: reduction: on CC message, performance reduction, tubo - CC message: on none desclosion	Breakdown notice: Nore	Norm
		and carrahaft signals have been passent. Potential problem socion(s); - O-bleck in wing hamnas	Voltage condition: - Chocurd electrical system voltage servers 0 v and 05			ECE emissions warring     Lange on     - ECE decirate angle		
		between DME and cannahat continue and an annotation - Incommot gap between controllard position encourted and cannahat encourted	V V Temperature conditor: - None Time condition:		Defect in wiring hamess between DME and curraftalt paillon sensor	poer metalger on - CC metalger on - US entiations warning Fault lands to ATLCTL-max (PC Test LBL4: lang: on 7 20cot-presawa control, deschwistor. Boost- Possible apparent symptoms:	Breakdown notice: The angine reverts to its emergency imp-home	
NEX07.2 Department index and a second particular and a second particular and a second a secon	acri Carratati Position Sensor Intake Paualbility	and carefuld arrange function - <u>Server</u> containing and <u>an evolutions' fail is present</u> <u>none</u> the carefuld reference position date not align with the targetift position.	None     Ober randition:     Ober randition: <u>-Engine ON     -None     Oberne ND     Oberne ND     Oberne ND     Oberne ND     No </u>	NO N		Communication and a second secon	The engine reverts to its emergency imp-home program, continued vehicle operation is possible, because power ineduced the driver aboutd service from passing maneuvers.	None
		the specified position. Potential problem source(s): - Loose center bolt - Carrant position sensor	V Tempanshare condition: - Nonai Time condition:		- When intake and exhaust commands display     simultaneous angular offset error relative to	- ECE ministre saving large on - ECE decloses express power relation: on - CC manage on - CC manage on - CC manage on	Breakdown notice:	
BECOT7.3         Initial angle direct with respect to         The degressic function nursits the data         Central Plation Series X Fauly Pro           BECOZ         6x2002         10202         oxisization close to series         angle betwee central and combation         P122         Protect (bes 1)	e Carrahafi Position Sensor Intake Phase	visit and the second and the se	- Trova Offer conditions: - Engine on - After execution of community position sensor - None NO	none N	Carnahalt pasition sensor reluctor ring out of adjustment     Tring chain has jumped time     Delictive timing chain (stellicted)     Check tarnahalt pasition sensor reluctor ring     Check tarnahalt pasition sensor reluctor ring     Check tarnahalt pasition sensor reluctor ring	-US ensisten warring Fault lasks to ALTCLTsamp (C' Test LEL4: Imp: on Tboost systems convolt, discription: Road- US electors: engine power reductors on LL6: 105000 (or129408; PC (Dec:Mes) L4: -CC massage on 11522 (orCCS) Million on	The engine reverts to its emergency limp-home program, continued vehicle operation is possible, because power is reduced the driver should enfmin from passing managements.	None
		the engine is turning over and curshaft aignais have been passed. Potential problem source(s):	Voltage condition: - Onboard electrical system			- ECE emissions warring large on - ECE disclored regime		
		Coded in writing burness between DOM and command position sensor     Income age between     consubal position annor     and command annore makador	vollage between 9 V and 16 V Temperature condition: 		Defect in wining harmess between DME and     - Check wining harmess between DME and	power reduction: on - CC message: on	Breakdown notice:	
ME(017.5 La 1990) 11601 Education control Re ethical Control Re ethics Control Res (1)	Carrebult Position Sensor Exhaust Plausbilly	Sensor contaminated or revolutions' fault is present. none	Time condition: - None Other conditions: - Engine CN - Depart derived location - Depart derived location	N	Detail is write hanness DMB and created the patients means borned appetitions meanser borned appetitions meanser consult appetitions meanser borned appetitions meanser consult appetitions meanser	-US minimum sensing .     Final lands to ATS CTArus (FC Tota ULA .     Imp on .     Todo spanses control, catachardine front.     Stackstrow engines gover .     Stackstrow engines gover .     Let 1052020 / 0132048; FC Dac. Houg L4 .     statest possible is control-industriant with an exhaust     CE measure .     Let 105202 / 022058     minimum .     Statest possible is control-industriant with an exhaust     Statest possible is control-industriant     Statest possible is contr	The engine reverts to its emergency imp-home program, continued vehicle operation is possible, because power is reduced the driver should refrain from passing maneuvers.	Norm
		Peak cannabath in reference prosition does not align, with the specified position. Platestild problem source(s) - Losse center bot	Orband decida system     orbap decida system     orbap decida system     V e     V     Temperature condition:     Hone     The condition:		- When intake and exhaust carnshafts display	- ECE entrations suming lange on - ECE decorrise engine power reductors on - CC mensage on - CC mensage on		
NECOT2 Examination Angle share with regard to SISDID 1252 INSE examination and the second of angle before anything of second of anything of anythi		Carrahaft position sensor reluctor ing out of adjustment     Carrahaft reference position adjustment     has shifted by more than or - Timing chain has jumped     and the carrahaft has	- None     Other conditions:     - Engine on     - After resulting of		Loose center bolt simultaneous angular offset enors relative to crankahati: Check center bolt adjustment of the carehabati: Check center bolt of the carehabati: Check center bolt of the carehabati check train of the c	-US entiations warning Fault lands to ATLCTLmax (PC Text L&L+ lamp: on 750col-pressure control, discrimition: Boosi- le detochrise rings may be appresent aymptome: eduction: on boosing of the Context (PC (Porc.)Hea) eduction: on boosing of the Context (PC (Porc.)Hea) the Context (PC (Porc.)Hea) L+ Possible appresent aymptome:	Breakdown notice: The engine reverts to its emergency imp-home program, continued vehicle optimition is possible, because power is reduced the driver	
B0200         0-2012         1182         constant inducts bilance         applications contribut out simplifier         P130         Particip Best ()	Carrahaft Position Sensor Exhaust Phase	bitte carathalt is not fooded during starting. Potiential problem source(s):	ommhvil position sensor - None - None ND Voltage candition: - Ordicare alcholal system voltage between 9 V and 16 V		Defective timing chain (stretched)     - Check valve timing	- CC massage on 11352/0x7C58 Mill.comes on large of - CC electric region power reduction: of - CC massage: non	ahould whain from passing maneuvers.	That is a second s
MEGETZ VVXGE, exhaust Index cambalit not in		Engine oil dity, old on to to specification -VAVGD squattment unit dity     The fault is logged dity     The fault is logged	V Tergenskare conditor: - None Three condition: - None Other conditions:		- Chack engine oil, replace engine oil and filter as required     - Engine oil driy, old or not to specification     - VANOS adjustment unit driv     vANOS adjustment unit driv	- US entializers warning lamp: off US electrock angine power medicitor: of Possible apparent symptoms:	Breakdown notice:	
BIG00 0200 1055 teckng pailtin it list op pailtin lobing P125 (Besk 1)		the carehalt is not locked during an engine start. none the carehalt is not locked during starting.	Engine GN - None - None NO     Voltage condition:     -Onboard electrical system     voltage between 9 V and 95	ND Y	- VANOS adjustment unit delective     - Replace VANOS adjustment unit	-CCmassage.nore nore -Non-starter in softeme cases     Intro. of     -CCC reases     Intro. of     -CCC reases     -CCCC     -CCC reases     -CCCC reases     -CCCC reases     -CCCC     -CCC     -CCCC     -CCC     -CCCC     -CCCC     -CCC     -CCC     -CCCC     -CCCC     -CCC     -CCCC	- 10018	none
		Potential problem source(s): - E-signe i difw, old or not to specification - V-VAOG adjustment uit defy The fault is logged - V-VAOG adjustment uit - V-VAOG adjustment uit - V-VAOG adjustment uit - V-VAOG adjustment uit	V V Ferpershare condition: -None Three condition: -None		Check engine oil, replace engine oil and filter     as required     Engine oil drity, old or not to specification     VANOS adjustment unit drity     valves	- CC massage. now - CS mission working hang. of US without explain gour US without explain gouer reduction of Possible appoint symptome:		
ME(0173 V3302) state strate canduit for in bidog 20208 J2021 1097 pastien at airs o patient bidog P1229 (Bek 1) (Bek 1)	d	defective during an engine start. none	Other conditions: - Engine CN - None - None NO Voltage condition: - Other electrical system	NO	- VANOS adjustment unit drity     - VANOS adjustment unit defective     - Replace VANOS adjustment unit	CC message: none     Non-starter in extreme cases	Breakdown notice: - none	none
		The facil is receiptioned whan a short official to positive in detected whan activation vedtage is transmitted to be Valvetoreic relay.	vollage behaves D V and 16 V Temperature conditor: • None			power reduction: on If the metal-motion occurs while the VVF system C-CC message: on Is at meanimum strates demotion (put load, MY11 US: Vehicle parked, only instead or no effects will be appeared to the cubicnet. (Switching process		
NE-0012 ADD 1100 Vehicles Dest chost to B - double of the degradic lundin molecular data linear seturities and the linear	Valvetoric (VVT) Relay	Potential problem source(s): - Defective wrining humans. - Valvetrive relay defective - Defective DME: memory immediately. Terminal	Time condition: - None Other condition: 15 - none - None - None - None - None	none N	Outricitive wiring harmass     Outricities     Outricies     Outricities     Outricities	US electronic engine power reduction: on - CC message: on none fixed costs.	Breakdown notice: None	Norw
		The fault is recognized when a short circuit is ground is detected when activation voltage is transmitted to the Valvietnic relay.	Voltage condition: - Cistoard electrical system voltage stewers 9 V and 15 V Temperature condition:			ECE ensuitors wanning     Iwng cit     Totable appoint appropriate     Totable     Totabl		
NC017.5 Valueture wije, schwalter. Dant counts in schward with Valueture wije travet 90000 sc2000 11771 week how schward with Valueture wije travet 90000 sc2000 11771 week how schward schward schward 91000 1171 1171 1171 1171 1171 1171 1171		Potential problem source(x): - Defective withing hanness - Valvetoroic relay defective control modules it suit	- None - None - None Other conditions:		- Inspect wining harness between DME and     - Unspect wining harness between DME and     Valvetonic rollay     - Valvetonic rollay	-US emaisons warring     Ise apparent to the customer, Schridbing process     Iang; on     may be fail after GCI, sarring response),     US electroic engine power     Observices breakdown vehice, as power in no     longer transmitted to the VVT splaten, which	Breakdown notice:	
BD200         0.0285         11701         meth         dradit legeod         F307         W15day Onal Lee	Valvetoric (VVT) Relay	The hash is recovering if an	15 - rome None None none none	none N	Obtiective DME     Peplace DME	- ECE emissions warring	Nors	11608
The disputitive function markets elected		open circuit la delactid ellen activation voltage la transmittide bite Valvetoric milay Potential problem socra(i); - Detiction vering humana This fault la logged in the	V Temperature conditor: - None Time conditor: - None		- Impect wing harress between DME and     - Defective wing harress     Valvetronic wing	ECE discourse ongin     ECE discourse ongin     Formation depresent symptome     Prover relations:         Merit use         recent assays on         and maximum strate activation (M IStat,         Merit US:		
INFORT23     INTEL     Videosciences     Vi	Valvetoric (VVT) Relay	- Lesscove uning ranness     - Unit status is adjeto in the     - Unit sharp discribution on the control module is fault     - Defective, DEE     memory immediately,     Terminal     terparature rises above     store:     sore:	- None -	none N	- Latenciole wing paramata variante may     - Valuencione Indiago     - Valuencione Magazia     - Defeccive DME     - Replace DME     - Replace DME	reduction on longer transmitted to the VVT system, which -CC nearage: on none thus closes. MY10 ECE:	Breakdown notice: None	Norse
		Potential problem assurce(s): - Valvetonic system consume excessive energy	Voltage condition: - Chotward electrical system voltage between 9 V and 95 V		Valvetronic system consumes excessive     Chack electrical system vallage	-ECE ensuitors wanting hamp; off -ECE discharsc engine power reductions on - CC message: on Mr11US:		
MEGITZ Valence, composer protection, sayul angel The degress's function monitors the VVT Overlass Protection Output Steep 5	aam	owing to: - Stiction and high resultances is the Valuetonic system - Asses ("bipping" the accelerator peaks, etc.)	Temperature conditor: - None Time conditor: - None Other conditions:	iv/tumper[_w	energy controp to: I offer disposite fund, codes related to - Stiction of rely sensitions in MV selections: Usedworks the sensitive for - Shares (Stipper) for acceleration (sensitive) - Onder Validatoric metaman for freedom of - Abases (Stipper) for acceleration (sensitive) - Onder Validatoric metaman for the selection - Abases (Stipper) for acceleration (sensitive) - Onder Validatoric metamatics are and acceloration be selected - Abases (Stipper) - Stop or selection (sensitive)	MYT US: - US ensaions wemp lenso in Selections: enginessions: Reduction: enginessions: - CC message on none Parable sparent symptoms: - CC message on none reactionstations	Breakdown notice:	
MCOSE SO206 11795 Weinterschaft geste auf der Bergenschaft auf der Bergenschaft der Bergenschaft auf der Bergenschaft aund der Bergenschaft auf der Bergenschaft auf der Berge	Name Valvetronic (VVT) Overload Protection	the calculated temperature of the calculated temperature of the Valvetroric actuator motor tises above 200°C /	15 - None - None STEUERN, VI	VT vvidget.w Y	- rrequest open-cop operation (imp-nome mode/learning routines)     - Replace components with mechanical wear	Necusion on range rom no encosi to power	VVT driver circuit component protection	None
		ECC33 (temperature in the winding of the Valvetronic aeron motion). Potential problem source(p); - Valvetronic system	Voltage condition: - Otheored electrical system voltage between 9 V and 15			MY10 ECE: - ECE entailors working Inrop. of - ECE elucitoric angine		
		consumes excessive energy owing to: - Stiction and high resistance	V Terperature condition - None Time condition:		- Valvehroric system consumes excessive energy oning to: - Stiction and high resistance in the Valvehroric system     - Stiction and high resistance in the Valvehroric and logand, work through them first system     - Check electrical system     - Check electrical system voltage	- Conversion - Co		
ME(b)172- B0200 b208 11102 Speter antih-of Protein annual to dispute Lockie neeken the VIT Owned Protein Good Mar S B0200 b208 11102 Speter antih-of Break of the Lockies of the Lockies and the P165 Dobation	tern Valvetoric (VVT) Overload Protection	In the Valvetonic partern - About (Stipping" the accelerator pedds (ec.) - Prequest open-bog none Terminal	- None Other conditions:	VT vidged_w Y	system     - Check Valuaterics (mechanism for freedom of     - Abuse ("bipping" the acceleratory padal, etc.)     - Prequest oper-boop operation (time-home     voltage source connected as required)     - Replace components with mechanical ware	US electrical regise power production register of production: reduction: on Range from on effects to power <u>CC message on none reduction breakdown</u> large of - CC electrics regise	Breakdown notice: VVT system component protection	Nore
		The fault is recognized when 7	Voltage condition: Temperature condition:			power resolution: off - CC measurements - CE measurements - CE analysis exercise - CE analy		
845/017.3 0x286 11798 Websine; eccente del adquitor Lower 95/020 0x286 11798 mit substat		Potential problem source(p): -7 -7 deactivated when a facil is	The condition: Other condition: Viblage condition:	- None	-7 -7 -7 -7	terry off US electronic engine power     induction of     reading off	Breakdown notice: - none	
		International when a statute management of the statute logged when the measured diagnosts when the stream of the then 1.2 V 7.2.3 V and the voltage behind	- Onboard electrical system voltage between 9 V and 16 V Temperature conditor: - None			Lo balage role were on-use-du     Lasser properties in your process     The array of the ar		
ME(d)172. Valetinic servendar, indicator. Diot deca. Insultan technic her planatic la advertication	Visionera Al **	voltage bahled the Valvetonic rally exceeds 10 V. Peteretail problem secure(h) ontrol modelshi's fault	None     None     None     None     None     None     None     None		- Detective wing homes     - Detective wing     - Detective wing     - Detective wing     - Detective wing     - Detective     - Detective wing     - Detective     - Detective	lamp: on deactivated and the VVT system revents to US electoric engine power minimum strates. If the fluid occurs at reduction: on maximum tracks, unrestraticated thatfaid operation	Breakdown notice:	
BN2000 0x208F 11711 to 8+ to positive. P1047 WT-Control Circuit High Blank 1)	, ververves (v/l)   Control Molor	<ul> <li>scenare were recesting in memory intractability. J Terminal</li> </ul>		pase (N	- varverous, assessor oreas, TVB     - resplace Valvetonic actuator motor	CC message: on none is possible.	No continued driving possible.	- 10 C

		deactivated where a trust supported. The disposit hald code is logged whene voltage manused during disposits in laws fam co 2 and the voltage hashed the Voltage hashed the		Voltage condition: - Orboard electrical system voltage between 0 V and 15			ECE entitations warring barp: off ECE electronic engine power reduction: on - CCE massage: on MY11 UE:		Possble apparent symptoms:		
		voltage measured during diagnosis is less than 0.2 and the voltage behind th Volumetric ratio is result.		V Temperatures condition: - Nonea Time condition:			power reduction: on - CC message: on MY11 US: - US emissions service		If the mailwork of the VVT driver chout is not at its maximum shoke breaks down. Engine will not restart, as the VVT driver chout is		
MEV017.2- Valvetronic servemotor, activator: Short circuit actuator monitors the Va	t circuit	Valvetronic relay is greate than 6 V. Potential problem source()	This fault is logged in the control module's fault	- None Other conditions: - Voltage behind motor relay		Defective wing harness     Defective wing harness	- US entraitors warning lamp: on tween Valvetonic - US electonic engine power ned UNE neduction: on		minimum stroke. If the fault occurs at maximum stroke, unrestricted throttled operation	Breakdown notice:	
BN2000 0x2DO0 11712 to earth to ground.	P1046 VVT-Control Circuit Lew Bank. 1) Valvetorie; (VVT)	Control Motor - Defective wiring herman The driver circuit is deactivated when a facil suspected. The fault is	memory immediately.	Terminel 15 b 5/V - None - None rome Voltage condition: - Orbitand staticitical system voltage between 0 and 15	none N	Valvetronic actuator defective     Paptace Valvetronic	actuator motor - CC message: on - ECE entaxics warring large: off - ECE electronic engine	none	is possible. Possible apparent symptoms:	Continued driving is usually not possible.	Norm
		diagnostics rimit in logged when the measure diagnostis voltage is lease than 0.35 V 7 0.51 V.	d	V Temperature condition: - None			- CC message: on		If the mailunction occurs while the VVT system is not at its maximum stroke position, the envire stallababicle breaks down. Envire will		
MEVD17.2- Valvetorsic servendor, activation: Line auctation monitors the Va	vetraric	Potential problem source) - Defective wining harman - Valvetoric actuator	This fault is logged in the control module's fault	Time condition: - None Other conditions: - Unline which enter relay:		- Check wing harness be     - Defective wing harness	- US emissions warning lamp: on - US electoric engine power and DMP		not restart, as the VVT driver circuit is deactivated and the VVT system reverts to minimum stroke. If the fault occurs at maximum stroke, unreatricted throttlied operation	Breakdown notice:	
MEVD17.2. Valvetoric servender, advatoric time advator hotor's fires phases for an BN0000 0x00C3 11/715 disconscion could in one of the wins.	P1050 VVT-Centrol Circuit (Bank 1) Valvetoric (VVT)	Control Molor detective the calculated driver circulated driver c	memory immediately.	Terminal 15 > 5V - None - None rpns	none N	- Valvetronic actuator defective     - Replace Valvetronic	actuator motor - CC message: on	none	is possible.	Continued driving is usually not possible.	None
		120°C. Potential problem source) Valentearie exertien	1	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V			- ECE emissions warning lamp; off     - ECE electronic engine power reduction; off     ences     ences     core massage: none     rock				
		Puterital problem source) - Valvetoric pythem consumes ascossible events on the tail - Stocken and high mailtain in the Valvetorics system - Assoc (Volparger) for	r n	v Temperature conditor:		Valvetronic system consumes ascessive energy owing to: - Exicit on and thip insistance in the Valvetronic yation - Abcas "bilipping" the ascellantor peak, etc.)	k through these first - US emissions warning				
MEVD17.2- NEXD0 0x20CA 11722 overficial protection: culput stage The diagnostic function monitors bN0000 0x20CA 11722 overficialed temperature of the down circuit	he PISE7 VVT-Overlasd Protection Dutput Stage Overlasd Valvetoric (VVT)	in the Valvetonic system - Abuse ("bilgping" the accelerate pedal, etc.) Overload Protection - Frequent open-koop		Time condition: - None Other conditions:	iv/sumpert_w ERN_VVT vv/dpert_w	System - Check Valvetroric mechan - Abuse ("bipping" the accelerator pedia, etc.) - Prequent open-loop operation (imp-home voltage source consect mode/learning routines) - Replace components wit	ted as required) reductor: off	0778	Possible apparent symptoms: VVT reverts to imp-home mode, minor effects can be feit	Breakdown notice: The engine runs in throthied mode, full drivability/power	Norm
		the calculated temperature the Valvetronic actuator motor rises above 190°C	1								
		Was calculated responsibles the Valvetraries includer motor mass above 1970° (Interpretation as in the working of the Valvetraries about the Valvetraries about the Valvetraries about	р. 	Voltage condition:			- ECE emissions warning				
		Potential problem source) - Valvetoric system consumes excessive energy	2	Voltage condition: - Orbecard electrical system voltage between 9 V and 95 V		Valvetronic system consumes excessive     Check electrical sys	lamp: off - ECE electoric engine power reduction: off dem voltage - CC massage: none				
		owing to: - Sticton and high resistant In the Valuescoic system - Abase ("Valgerge" the accelerator peakle, etc.)	30	Improvementaria conditor: - None Time condition: - None Other conditions:		energy outing to:         - Bitcles and high netalistance in the Vulvetoric and stogent, were syntam         - Abuses ("Abgreged openation (Imp-home avoid age acoust a connect         - Prequest open-toop openation (Imp-home         voltage acoust a connect	through these first		Prophie arrowed survivors:	Brank-fram rotine:	
MEVDIT2- BN2000 0x2DCB 11723 overlead protection: Actuator motor The diagnostic bancion monitors BN2000 0x2DCB 11723 overleaded temperature of the Valvetmotic actuator		Overload Protection     Overload Protection     Coverload Protecti	none	Other conditions: Terminal 15 - none - None STEL	ERN_VVT vvidperf_w Y	- Obsck Valvetronic mechar - Absone ("bipping" the accelerator pedial, etc.) - Frequent open-loop operation (Imp-home modelearning routines)     - Replace components wit		none	Possible apparent symptoms: VVT revents to limp-home mode, minor effects can be felt	Breakdown notice: The engine runs is throttled mode, full drivability/power	None
		fault threahold of 10 000. The counter is incommentalized when the cleaned-how content		Voltage condition: - Onboard electrical system - voltage between 9 V and 16		- Check wiring harmess and	MY10 ECE: - ECE emissions warning lamp: off with				
		Intel Telefondo di 10 UAL Tel contella Incomentiata dans fito differenza conseduta appendimento accenda a Unaverso in sinuale na retori Valentero in sinuale na retori	e	- "Unitability terminal and any sensitive voltage the terminal and 16 V Verreparature condition:		Chack wining humana and electrical i I electrical i Valveterici are logged, wor - Chack Valveterici methani	In the second se		Possible apparent symptoms: Unrestricted, throtted operation remains available if the VVT system's stroke is at maximum extension.		
MEVD17.2-	vetronic VVT-Ackarer Monterina Position Control: Tist.	atationary. Potential problem source) - Defective winty harnes	k	Temperature condition: - Nona Time condition: - Nona Other conditions:	instamper	Check Valuetoric mechanismos Defective wining harness voltage source convect Valuetoric adautor defective - Replace Valuetoric Valuetoric system sticking - Replace to properties with	actuator motor - US electronic engine power		maximum extension. If maximum stroke is not achieved, results ranging from a power loss to breakdown can occur depending on the VVT position that the	Breakdown notice:	
MEVU/1/2-     BNDDDD     DzDDE 11726 Velvetranic system: Control deviation too great     system's control pectator.	veronic VVV-x-calater Monitoring reason Compc. Lign, P1020 ro. Adjustment possible (bank 1) Valvetheric (VVT).	- Lessards simily surveys     Position Control     - Valencies actuator     neither upward nor downw     motion of 0 <sup>+</sup> is possible     during imiliazzion of the	none	Terminal 15 - rome - None - None STEL - Orboard electrical system - Orboard sectrical system yoltage between 9 J and 15	ERN_VVT widgef_w N	- Valvemene system storing     - Replace component w     - Defective DME     - Check wing hamesa and     - Check wing hamesa and     - Check wing hamesa and	OME - CC message: on	none	accur depending on the VV1 possion that the system does reach.	None	None
		Valvetronic system.		V V Tengenature conditor: - Engine warmed to normal terrp, above 80 °C		- If other diagnostic fault Valvetoric are logged, wor	codes related to power reduction: off k through these first - CC message: none		Possible apparent symptoms: Once the VVT has reached its emergency running position, unlimited throttled operation is		
The diagnostic function determines any	that the	Plannia problem source) - Datactive winning harmas - Valvebronic schafter - Stellen - Stellen Diff.		Time condition: - None Other conditions:		Otek Valvetoric michter Defective wing harness Valvetoric zubater defective Valvetoric zystem sticking Valvetoric zystem sticking Paglace components wi Replace Components with Paglace components with Pag	ism for freedom of ion (with external loc (with external loc as required) loc (of actuator motor - US electronic engine power		running position, unlineted throtted operation is possible. If it tails to reach the emergency running position, results ranging from a power loss to breakdown vehicle can occur depending on the IV/7 excites the time souther down such		
MEVD17.2- BN2000 0x20CP 11727 Valvetoric system: no movement identified valvetoric system moves feely and resistance during the initialization re	nthod drine. P10E1 VVT-Syntem No Trevel Detected Valvetoric (VVT).	Valvetonic system alche     System - Defective DME     all three position sensor     have the same level.	none	When the Valvetronic     Engine warmed to normal	ERN_VVT vvtdperf_w N	Valvetronic system sticking     Replace components wit     Defective DME     Replace t	h mechanical wear reduction: off DME - CC message: none	none	breakdown vehicle can occur depending on the VVT position that the system does reach.	Breakdown notice: None	None
		Retarial and law encode		Voltage condition:			- ECE emissions warning lamp: of				
		<ul> <li>No power supply voltage memory</li> <li>One or average days to be position same and the position of the position of the shering to position or average and position</li> <li>One or average position</li> </ul>		Voltage condition: - Orberon et alcoholi system voltage between V and 15 V V Temperature condition:		. No resume survey a second second	lamp: off - ECE electronic angine power reduction: off - CC message: none				
		abretied to positive or group - One or answerid position assence where is open - One or more position assence in the Valvebeet	d The diagnostic fault code is logged when the fault remains present for longer	- None Time condition: - None		No power-supply voltage to sensors     One or several wreat to the position sensors     Islaws shorted to positive or ground     One or several position-sensor wreas is open     - One or several position-sensor wreas is open	- US emissions warning lamp: off		Possible apparent symptoms: VVT reverts to imp-home mode, minor effects	Breakdown notice: The engine runs is threatiled mode, full	
MEVD17.2- Valvetoric surverenze, position sursam: Short- The diagnostic function members the will BN2000 0x0202 11724 citruit or line break lopen citruit the gostion sensors.	es to the P10E2 VVT-Sensors Supply Voltage Circuit Electrical Valentsceic (VVT)	Sensors in the Valvebori Annors in the Valvebori Excessors and the recognized with the DME Interdeend educed	than 1 min.	Other conditions:         - None         - None         none           Vallage condition:         - Others of decircul system         -         -         -	none N	Ore or several position-sensor wins is open Ore or more position sensors in the Valvetonic actuator motor is detective Chack wring harmas be actuator motor relations Chack wring harmas be actuator motor relations Chack wring harmas be	actuator motor - CC message: none	Done	WT reverts to imp-home mode, minor effects can be felt	The engine runs in throttled mode, full dhobbilty/power	Norm
		fault in the voltage supply t the Mail-effect sensors.		voltage between 9 V and 16 V Ternevrature condition:		Check Valvetronic a     Check Valvetronic actu	ctuator motor power reduction: off ator motor with - CC message: none				
		Potential problem source() - Defective wining harness - Valvetronic actuator		- None Time condition: - None		Pin 11 to Pin 10: rou Pin 11 to Pin 10: rou	phy 1 mOhm - US emissions warning large: off infinite maintance - US electronic engine power actuator motor reduction: off		Possible apparent symptoms:	Breakdown notice:	
MEVD17.2- Valvetroris sevennese, position sensors: The diagnostic function monitors the BN2000 0x2007 11725 Supply voltage faulty supply winss to the position sensor	oseer- ns. P1QES VVT-Sensors Supply Vultage Circuit Open Valvetonic (VVT).	defective OME Power Supply Sensors  Power Supply Sensors  The fault is recognized wh the recognized wh the recognized sensors infer	none	Oter condition:     Terminal 15     Oter condition:     Intere     None     None     None     None     None     None     None	none N	Defactive wining harmans     Defactive wining harmans     Valvetronic actuator defactive     Defactive DME     Defactive DME	actuator reduction: off DME - CC massage: none lamp: off - FCF alectoric ancies	none	WT reverts to imp-home mode, minor effects can be felt	Breakdown notice: The engine runs in throttied mode, full dhrobility/power	None
		The fault is recognized wh the politics seriors indice an income which sequence.		Voltage condition: - Onload dearchical system voltage between 3 V and 16 V V temperature condition:			lamp: off - ECE electronic engine power reduction: off - CC message: none				
MEVD17.2- Valvetroric servorrelor, position sensors: Signal The dispositic function mentions the a		Potential problem source) - Defective wintig harness - Valvitoric actuator defective	The diagnostic fault code is logged when the fault remains present for longer	Temperature condition: - None Time condition: - None Char condition:		Defective wining harmess     - Check wining harmess be     - Valvetronic actuator defective     actuator motor :	- US emissions warning large: off tween Valvetonic - US electronic engine power and DME reduction: off		Possible apparent symptoms: WT revents to imp-home mode, minor effects	Breakdown notice: The engine runs in throtfiled mode, full	
BN2000         0x2DDS         11736         implauable         sequence of the position sensor           MEVD17.2         BN2000         0x2DE1         11745	P1017 V/T-Servaora Plazability (Back 1) Valvetonic (V/T)	defective Sensors - Defective DME	nemaina present for longer than 1 min.	Terminal 15 - none - None - None rone	none N	- Valvetronic actuator delective actuator motor :	Ind DME reduction: of actuator motor - CC message: none	none	WT reverts to imp-home mode, minor effects can be felt	The engine runs in throtfiled mode, full drivability/power	None
BN2000 0x2DE2 11746 MEV00172- BN2000 0x2DE3 11747	P10F4         VVT-Control Prese U Circuit Open (Bank 1)           P10F5         VVT-Control Prese V Circuit Open (Bank 1)										
MEVD17.2-											
MEV017.2- BNC000 0x20E4 11748 MEV017.2- BNC000 0x20E5 11749	P10/6 WT-Control Phase W Circuit Open (Bank 1) P10E8 WT-Overload Protection Control Motor Overload Valvebonic (VVT)	Overfoad Protection									
8N2000 0x20E5 11749 MEVDIT2- 8N2000 0x20E8 11752	P105         V/Y Covine Phase X Cost Q cond. Block 1)           P1058         V/Y Covine Phase X Cost Q cond. Block 1)           P1059         V/Y Covine Phase X Cost Q cond. Set Q covine.           P1059         V/Y Covine Phase X Cost Q covine.           P1059         V/Y Covine Phase X Cost Q covine.           P1050         V/Y Covine Phase X Cost Q covine.	Overload Protection Overload Protection Overload Protection Overload Protection									
BN2000 0x2DE5 11749	P1028     VVT-Overtad Protection Control Mater Overtaat     Valvetroet: (VVT)     VVT-Overtad Protection Cognit Stage System     VVT-Overtad Protection Control Mater System     VVT-Overtad Protection Control Mater System	Overfead Postection Overfead Protection Overfead Protection Overfead Protection	n	Vinge andian Vinge andian Vinge andian Vinge andian			ing d				
80000 0.0055 11140 MEGDT2 B0000 0.0056 11722 MEGDT2 B0000 0.0056 11722 MEGDT2 B0000 0.0056 11723	Pr025 VVT-Overlaal Protection Control Motor Overlaad     Vid-Overlaad Protection Control Motor Overlaad     Vid-Overlaad Protection Control Motor System     Vid-Overlaad Protection Control Motor System     Pr020     Pr020     Pr020     Dutotom     Vid-Overlaad Protection Control Motor System     Videnterics (VVT)	Overland Protection Overland Protection Overland Protection The last is recognized and the current fills belies C2 amp angebraic overlange Protection		Orbizand electrical system     voltage between 9 V and 16     V     Terrementare condition:			Large of the second sec				
B0000         AGR5         1178	P188         VYC Savital Products Carlow Like Owned Vietnemer         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)	Oracled Distances Outline Distances Outline Distances Outline Distances The fault in Security	Dagweie lank onde in Bagge data montem -	- Ordeord exteriorial hydram voltages between P V and 50 V Teoperature condition: The condition: Here:		.Outside stig turns	power reduction: off - CC message: none - US emissions werning terren Valvetonic large: off		Penalo agonet arquiene. Regularge en dere so come	Beakton notes Ergen on an Intellia question Namedy n	
B0000         AGK5         1178	P188         VYC Savital Products Carlow Like Owned Vietnemer         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)	Optimiz Tatelina     Optimiz Tatelina     Optimiz Tatelina     Optimiz Tatelina     Optimiz Tatelina     Optimiz Tatelina     The same statement of the second statement	Diagranis fault code is bugget drive code in parset for al load 1 m. parset for al load 1 m.	- Orbizand alexifical system voltage between 9 V and 15 V V Temperature condition: - None	N9. N9.	- Otack wing haves - Otack wing haves - Velocities and ar default - Otack wing haves - Velocities and ar default - Species Velocities - Repeat Velocities	power reduction off     - CC message: none     - US ensistation warring     develop Lamp: off     dotter     dotter     dotter     dotter     comessage: none     lamp: off     lamp: off     lamp: off     lamp: off	058	Possible apparent symptome Respiration on addicts to yourst reductor/backform	Exclusion rates. Exclusion rates Fager on a feedback of the second of th	Norm
WEW // Local         Units         Implementation           B0000         ADDE         Implementation         Implementation	P188         VYC Savital Products Carlow Like Owned Vietnemer         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)           P189         VYC Savital Products Carlow Like Owned Vietnemer (VY)         Vietnemer (VY)	Onded Trates     Orderid Trates     Orderid Trates     Orderid Trates     Orderid Trates     The fast a suggest dis     The	present for at least 5 ms.	Constraint Alburg any any event of the any any event of the any any the sector of the any the sector of the any Descent of the any the sector of the any Descent of the any the sector of the any of the sector of the any the sector of the any		- Otación utili paras - Otación utili paras - Vulentra cadar debas - Una del debas	Anser Valuation: eff - CC massage norm - US estations warning metal DML - US estations engine power reduction: eff - CC massage nore - CC massage nore			limitations will be noticed. However continued	Nex
W0000         ADDR         1176           M0000         ADDR         1173           W0000         ADDR         1174           W00000         ADDR         1174           W000000         ADDR         1174           W000000000000000000000000000000000000	PIEB         VY Or durate House Cancel and an Owned Weberson COVI         Veberson COVI           PIED         VY Or durate House Cancel and an Owned Weberson COVI         Selection COVI           PIED         VY Or durate House Cancel and Ano System COVI         Belleting         Selection COVI           PIED         VY Or durate House Cancel and Ano System COVI         Belleting         Selection COVI           Image: Selecting Covid Ano System COVI         Belleting         Selecting         Velocities (VY)           Image: Selecting Covid Ano System Covid Ano	Optimize Transition         -           Optimize Transition         -           Optimize Transition         -           Optimize Transition         -           Provide Transition         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         - <tr< td=""><td>present for at least 5 ms.</td><td>Colour dealer any one of the second and any one of the second and any of the second and any of the second any of the sec</td><td>N9 N9</td><td>Obtective DDB     Obtective DDB     Obtective using homean     Obtecti</td><td>new relation of comments of the second sec</td><td></td><td>reduction/braikforym Peaable apprent symptoms: Range from no effects to power</td><td>Initiators will be noticel: Howard continued driving is impossible in work-case accessio Drawldown notice Engine nor in instation dispersion. Normally no Engineers in the notice Howard continued</td><td>New</td></tr<>	present for at least 5 ms.	Colour dealer any one of the second and any one of the second and any of the second and any of the second any of the sec	N9 N9	Obtective DDB     Obtective DDB     Obtective using homean     Obtecti	new relation of comments of the second sec		reduction/braikforym Peaable apprent symptoms: Range from no effects to power	Initiators will be noticel: Howard continued driving is impossible in work-case accessio Drawldown notice Engine nor in instation dispersion. Normally no Engineers in the notice Howard continued	New
WE/007_2         SOCIE         1178         Image           B0000         SOCIE         1173         Image           B0000         SOCIE         1173         Image           B0000         SOCIE         1173         Image           B0000         SOCIE         1173         Image           B0000         SOCIE         1174         Image: Image           B0000         SOCIE         1175         Image: Image: Image           B0000         SOCIE         1176         Image: Image: Image: Image: Image           B0000         SOCIE         1176         Image: Im	PIEB         VY Or durate House Cancel and an Owned Weberson COVI         Veberson COVI           PIED         VY Or durate House Cancel and an Owned Weberson COVI         Selection COVI           PIED         VY Or durate House Cancel and Ano System COVI         Belleting         Selection COVI           PIED         VY Or durate House Cancel and Ano System COVI         Belleting         Selection COVI           Image: Selecting Covid Ano System COVI         Belleting         Selecting         Velocities (VY)           Image: Selecting Covid Ano System Covid Ano	Ontice Transfer     O	present for at least 8 ms.	Observations of your of the sector of your of the sector of your of the sector of your of the sector of t		Othective DME     Othective DME     Othective DME     Othective store terms accurate motor in	per ar valution of - Company, non- - US ensains wavely large all - US ensains wavely - US ensains wavely - Company, non- - Company	058	reduction/basekdown	Initiations will be noticed. However, continued driving is impossible in wards case a control Breakfarm control. Engine num in theritide gearstan. Normally no	Nos
W0000         ADDR         1176           M0000         ADDR         1173           W0000         ADDR         1174           W00000         ADDR         1174           W000000         ADDR         1174           W000000000000000000000000000000000000	PIEB         VY Or durate House Cancel and an Owned Weberson COVI         Veberson COVI           PIED         VY Or durate House Cancel and an Owned Weberson COVI         Selection COVI           PIED         VY Or durate House Cancel and Ano System COVI         Belleting         Selection COVI           PIED         VY Or durate House Cancel and Ano System COVI         Belleting         Selection COVI           Image: Selecting Covid Ano System COVI         Belleting         Selecting         Velocities (VY)           Image: Selecting Covid Ano System Covid Ano	Optimiz Training         -           Optimiz Training         -           Optimiz Training         -           Image: State of the state	present for al least 8 ms.	Constrained and a set of the set		Obtective DDB     Obtective DDB     Obtective using homean     Obtecti	seen Volken of Generation of Constraints of the second s	2018	reduction/braikforym Peaable apprent symptoms: Range from no effects to power	Initiator with ordinate Howare protocol delega impendian supression account Development of the second second second Experiments in Redict granution. Namely no Experiments in Redict granution. Namely no Experiments in Redict granution. Second second delega impendials in work care supression	Nos
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NECODI         DODE         1110         Image: Control of the second s	Marine Protect Construction of Advancement of Ad	Optional Training         Optional Training           Optional Training         In which responses           Image: Ima	amount of sharts the second	Aber of a set of a se	11 64 40 20 11 6440 N 지 44 41 40 11 6440 N 지 44 41 41 41 41 41 41 41 41 41 41 41 41	Obtics 02	Bare velocition of the set of th		restrictionabalay     restrictionabalay     Possible apparent symptome     Varies south symptome     Possible apparent symptome	Initial will be actual these or printed along a provide is notice to serve on Print a first served in source on server Print and source on the server Print and source on the server Print and the server of the server Print and the server Print and the server of the server Pr	Nrs

								a short circuit is present in he wire to the radiator vent slats.		Volt - Or	tage condition: tboard electrical system age between 9 V and 16							lamp: off - ECE electronic engine				
							- P	Potential problem source(s):		Terr	rperature condition:							lamp: off - ECE electronic engine power reduction: off - CC message: none				
							b	Defect in wiring harness between radiator vent slats and DME logger	cetic fault code is swhen the fault	- No	ane e condition: ane				- D	elect in wiring harness between radiator vent	- Check wiring harness between radiator vent	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x2E81 11905	Radiator shutter, activation: Short circuit to earth	The diagnostic function monitors the wiring harness to the radiator vent stats.	P3008	Controlled Air Shutter Circuit Low			assembly is defective f	present for longer han 1 min.	Terminal 15 - nor	er conditions: ne - N tage condition:	ns - Nons	systemcheck_gif	none	N -	slats and DME - Rediator vent slat assembly is defective	slats and DME - Replace radiator vent stat assembly	eduction: off - CC message: none lamp: off	none	Possible apparent symptoms: Engine overheating is possible	Breakdown notice: Radiator vent alata should open automatically. No	one
								the wiring harness to the radiator vent slats.		- On volte V	tage condition: nboard electrical system age between 9 V and 15							temp: off - ECE electronic engine power reduction: off - CC message: none				
							P - b	Potential problem source(x): - Defect in wiring harness between radiator vent slats The diago	costic fault code is	Terr - No Tirre	rperature condition: zne e condition: zne er conditiona:						-	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x2E82 1190	Rediator abutter, activation: Line disconnection	The diagnostic function monitors the wiring harmess to the radiator vent alute.	Patoc	Controlled Air Shutter Circuit/Open			assembly defective f	roatic fault code is I when the fault present for longer han 1 min.	- No Othe Terminal 15 - ros	er conditions: pe - N	ns - Nons	systemcheck_gif	none	- Di	lefect in wiring harness between radiator vent slats and DME - Radiator vent slat assembly is defective	Check witing harness between radiator vent slats and DME     Replace radiator vent slat assembly	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Engine overheating is possible	Breakdown notice: Radiator vent slats should open automatically. No	ione
							a is	short to positive or ground a present on the activation wire for the lower radiator										- ECE emissions warning				
								vent slats or the wire is open.		- On volta	tage condition: sboard electrical system age between 9 V and 16							ECC electronic regime     power reduction: off     - CC message: none				
								Defect in wiring harness between radiator vent stat ssembly (upper radiator stat		- No	rperature condition: ane e condition:				- 0	efect in wiring harness between radiator vert	- Check wiring harness between radiator vent slots (unrear radiator vent slat assemble) and	- US emissions warring lamp: of				
MEVD17.2- BN2000	0/2514 1190	Badatorshellar boltom alectical melloncion	The diagnostic function monitors the activation wire leading to the lower radiator vent stat assembly	P14/25	Controlled Lower & Station Flantical		83	asembly) and passive cold- This faul	t is logged in the I module's fault ry immediately	- No	er conditions:	na . Nroa	natambark of		N	cold-air flap system (lower radiator vent slat assembly) Defect in lower radiator vent slat assembly	alais (upper radiator vent stat assembly) and passive cold-air flap system (lower radiator vent stat assembly) - Replace lower radiator vent stat assembly	- US electronic engine power reduction: off     - <u>CC message: none</u>	0.00	Possible apparent symptoms:	Breakdown notice:	Q-rea
										Volt - On	tage condition: rboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine				
							T	The fault is recognized when combustion miss is present on at least two cylinders.		V	menal as conditory							power reduction: on - CC message: on				
MEVD17.2-		Combustion misfring, several cylinders: Fuel	The diagnostic function monitors whether multiple "combustion miss" mailunctions are					An an ease two cynoles.		- No - No	ane e condition: ane er conditions:							- US emissions warning lamp: on - US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2EE0 12000	injection deactivation	logged in the course of a single driving cycle.	P0300	Random/Multiple Cylinder Mafire Detected	Mafre	Multiple	- see Individual fault see b	ndividual fault	none - En	rgine CN - N tage condition: rboard electrical system	ns - Nons	NO	none	Y	- see Individual fault	- see Individual fault	- CC message: on lamp: on - ECE electronic engine	none	see Individual fault	None ni	278
							T	The fault is recognized when combustion miss is present		volta V	age between 9 V and 16							- ELE electric engine power reduction: on - CC message: on				
			The descentic function mentions whether				-	on at least two cylinders.		- No	e condition:							- US emissions warning lamp: off				
MEVD17.2- BN2000	0x2EE1 1200	Combustion misfiring, several cylinders: damaging exhaust gas	The diagnostic function monitors whether multiple "combustion miss" maifunctions are logged in the course of a single driving cycle.	P0300	Random/Multiple Cylinder Mafire Detected	Mafre	Multple	*otential problem source(s): - see Individual fault see 8	ndividual fault	none - En	er conditions: rgine ON - N	na - Nona	NO	none	Y	- see individual fault	- see Individual fault	US electronic engine power reduction: of - CC massage: none	none	Possible apparent symptoms: see individual fauit	Breakdown notice: None no	one
										- On volta	tage condition: nboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
							مر ت ا	The fault is recognized when combustion miss is present on at least two cylinders.		Terr - No	rperature condition: ane							- CC message: on - US emissions warning lamp: off				
MEVD17.2- BN2000	0x2EE2 1200	Combustion misfiring, several cylinders: damaging exhaust gas after start sequence	The diagnostic function monitors whether multiple "combustion miss" mailfunctions are logged in the course of a single driving cycle.	P3300	Random/Multiple Cylinder Mafire Detected	Mafre	Multiple	Potential problem source(x): - see Individual fault see I	ndividual fault	Oth	e condition: zne er conditiona: rgine CN - N	ns - Norw	NO	none	Y.	- see Individual fault	- see individual fault	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: see individual fault	Breakdown notice: None no	1016
							P	the combustion stroke in a particular cylinder is slower han the combustion strokes		Volt - On	tage condition: record electrical system age between 9 V and 15							lamp: on - ECE electronic engine				
							5	on the other cylinders. The data	costic fault code is when within 200 :	V Terr	nperature condition:							CC message: on - US emissions warring			Breakdown notice: The engine revents to its imp-home program,	
MEVD17.2-		Combustion misfiring, cylinder 1: Fuel interview	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm				-	Potential problem source(s): logged i Defect in mixture formation (KPIKS - Defect in ignition system revolut - Mechanical defect number - Defective DME even	when within 200 : WP) crankahaft ions a specified r of ignition miss	- No Othe	ane e condition: one er conditions:					Defect in mixture formation     Defect in ignition system     Mechanical defect	- Because this is a secondary fault, start by	- US emissions warning lamp: on - US electronic engine power reduction: on		Possible apparent symptoms:	The engine rewerks to its imphone program, continued whick operation is possible but drivability is readirate. because power is reduced the driver aboutd refrain from passing	
BN2000	0x2EE4 1200	desclivation	signals (segment periods).	P0301	Cylinder 1 Miafire Detected	Maire	Cyl 1	the combustion stroke in a particular cylinder is slower	is is detected.	none - En Volt	rgins CN - N bage condition: hboard electrical system age between 9 V and 15	ne - None	NO	- None	Y	- Defective DME	repairing the primary faults	- CC message: on	none	Reduced engine power	manazora. N	.08
							P		ostic fault code is when a specific f combustion miss	- De volte V *	age between 9 V and 16							lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of the combustion strokes and compares them with				P.	Defect in mixture formation effect Defect in ignition system emission	f combustion miss with their negative ts on exhaust is, are recognized		rperature condition: ane e condition: ane					Defect in mixture formation     Defect in ignition system		- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x2EE5 1200	Combustion mistring, cylinder 1: damaging exhaust gas	the remaining cylinders by assessing the rpm algoals (segment periods).	P0301	Cylinder 1 Minfre Detected	Matre	0/1	- Mechanical defect within	1000 crankahaft molutiona.	none - En	ane er conditions: rgine CN - N tage condition:	ne - None	NO	- None	Y	Defect in ignition system     Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults.	reduction: off - CC message: none	name	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: Norm Ni	<u>608</u>
							i P Bi	particular cylinder is slower The diago han the combustion strokes logged	ostic fault code is when a specific f combustion miss	Vali - On valis V	tage condition: sboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of				P.	Potential problem source(s): effect Defect in mixture formation Defect in mixture formation during	combustion miss with their negative ts on exhaust is, are recognized gifte first 1000 both exact bioson	Terr - No Terr	rperature condition: ane e condition: ane					- Defect in mixture formation		- US emissions warning lamp: off				
MEVD17.2- BN2000	0+2555 1200	Combustion mistiring, cylinder 1: damaging exhaust gas after start sequence	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0301	Cylinder 1 Misfire Detected	Mafre		Defective DME follow	g the first 1000 half revolutions wing the start.	none -En	er conditions: Igine ON - N	ne - None	NO	- Norm	Y	Defect in mixture formation     Defect in ignition system     Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults.	US electronic engine power reduction: off     CC message: none	nore	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None Na	ione
						I T	i i P	the combustion stroke in a particular cylinder is slower		Volt - On	tage condition: nboard electrical system age between 9 V and 16							lamp: on - ECE electronic engine	T	T		_
1							p	Potential problem source/s/c number of	ostic fault code is when a specific f combustion miss	v	rperature condition: ane e condition:							cover reduction: on - CC message: on - US emissions warring			Breakdown notice: The engine reverts to its imp-home program,	
MEVD17.2-		Combustion misfiring, cylinder 2: Fuel injection	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).				- c for	Collateral fault logged, from events an problem with mixture 200 crank president system or mechanism. and an an a	shaft revolutions. er depends on rpm	- No Oth	er conditions:					Collateral fault logged, from problem with mixture formation, ignition system or mechanism.	- Because this is a secondary fault, start by	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms:	continued vehicle operation is possible but drivability is restricted, because power is reduced the driver should refrain from passing	
BN2000	0x2EE7 1200	deactivation	signals (segment periods).	P0302	Cylinder 2 Misfire Detected	Matre	C)12	the combustion stroke in a maticular colorder is stroker. The diam	t load factor.	none - En Volti - On	rgine CN - N tage condition: rboard electrical system age between 9 V and 15	ns - Nons	NO	- Norxe	Y	mechanism.	repairing the primary faults	CC message: on     lamp: on     ECE electronic engine	none	Reduced engine power	maneuvera. N	278
							'n	the combustion stroke in a particular cylinder is slower tan fre combustion strokes on the other cylinders. The diagonal logged number o events, v	when a specific I combustion miss with their negative		age between 9 V and 16 rperature condition: ane							lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of the combustion strokes and compares them with				P) - C		ts on exhaust is, are recognized 1000 crankshaft ions. This must	Time No.	e condition:					Collateral fault logged, from problem with mixture formation, ignition system or		- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000	0x2EE8 1200	Combustion mislining, cylinder 2 damaging exhaust gas	the remaining cylinders by assessing the rpm signals (segment periods).	P0302	Cylinder 2 Mafire Detected	Modre		mechanical components procee the combustion stroke in a	d in 4 intervals.	none - En Volt	rgine CN - N tage condition:	ns - Nons	NO	- Norw	Y	mixture tormation, ignition system or mechanical components	Because this is a secondary fault, start by repairing the primary faults	reduction: off - CC message: none lamp: on	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None N	one
							p.	han the combustion strokes logged	ostic fault code is when a specific f combustion miss	- On volta V	rboard electrical system age between 9 V and 15							ECE electronic engine power reduction: on CC message: on				
			The diagnostic function monitors the duration of				P1-0	Potential problem source(s): Collateral fault logged, from problem with mixture ormatice, ignition system or manhanism amounter form	with their negative to on exhaust is, are recognized gifte first 1000 heift result first	Terr - No Time	rperature condition: one e condition:							- US emissions warning lamp: of				
MEVD17.2- BN2000	0x2EE9 1200	Combustion mistiring, cylinder 2: damaging exhaust gas after start sequence	the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0302	Cylinder 2 Matire Detected	Mafre	Cyl 2	mechanical components follow	g the first 1000 halt revolutions ving the start.		e condition: me er conditions: ngine CN - N	ne - None	NO	- Nores	Y	<ul> <li>Collateral fault logged, from problem with mixture formation, ignition system or mechanical components</li> </ul>	Because this is a secondary fault, start by repairing the primary faults	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None No	icra
							i P Pa	the combustion stroke in a particular cylinder is slower han the combustion strokes		Volt - On volt	tage condition: nboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of					on the other cylinders. Potential problem source(s): The diago	cetic fault code is	Terr - No	rperature condition: ane e condition:					- Defect in mixture formation		- CC message: on     - US emissions warning     lamp: on			Breakdown notice: The engine reverts to its imp-home program,	
MEVD17.2- BN2000	0-2554 12010	Combustion misfiring, cylinder 3: Fuel injection	the combuston strokes and compares the dutation of the combuston strokes and compares them with the remaining cylinders by assessing the rpm simple (semant netroth)	81303	Culturer 3 Ministre Datastard	Motor	043	Defect in mixture formation - Defect in ignition system - Mechanical defect - Defective DME 200 crani	recognized within	- No Othe	e conditions: er conditions: noine ON - N	na . Nroa	NO	- Norm	,	Detect in fronture formation     Defect in ignition system     Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults.	- US electronic engine power reduction: on	0.75	Possible apparent symptoms:	continued vehicle operation is possible but drivability is restricted, because power is reduced the driver about retrinin from passing missioners bit	urra .
							d P	the combustion stroke in a meticular cylinder is slower		Volt	tage condition: nboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine				
								han the combustion strokes on the other cylinders. The diago logged number o	estic fault code is when a specific combustion miss with their negative									power reduction: on - CC message: on - US emissions warning				
MEVD17.2-		Combustion mistiring, cylinder 3: damaging	The disgrostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm						with their negative ts on exhaust is, are recognized 1000 crankshaft	Oth	e conditions:					Defect in mixture formation     Defect in ignition system     Mechanical defect	- Because this is a secondary fault, start by	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2EEB 1201	exhaunt gas	signals (segment periods).	P0303	Cylinder 3 Misfire Detected	Matre	C)13	the combustion stroke in a	notic fault code is	Volt	rgine ON - N tage condition: rboard electrical system	ns - Nons	NO	- None	Y	- Defective DME	repairing the primary faults	- CC message: none lamp: on - ECE electronic engine	none	Combustion miss may be noticed.	Norm No	208
							p.	on the other cylinders. logged number of events, v	when a specific f combustion miss with their negative	volta V	age between 9 V and 16							- CC message: on				
			The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm				P) - C -	Potential problem source(s): effect Defect in mixture formation emission	ts on exhaust is, are recognized g the first 1000 haft revolutions	- No Time - No	rperature condition: ane e condition: ane er conditions: voine CN - N					Defect in mixture formation     Defect in ignition system		US emissions warning lamp: off     US electronic engine power reduction: off				
MEVD17.2- BN2000	OvZEEC 12012	Combustion misfiring, cylinder 3: damaging exhaust gas after start sequence	the remaining cylinders by assessing the rpm signals (segment periods).	P0303	Cylinder 3 Matire Detected	Maire	Cyr3	- Defective DME follow	haft revolutions ving the start.			ne - None	NO	- None	Y	Defect in ignition system     Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults	- CC message: none	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None Ne	one
							P	the combustion stroke in a particular cylinder is slower han the combustion strokes on the other cylinders. The diago	ostic fault code is when a specific	- On volte V	tage condition: nboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
1			The diagnostic function monitors the duration of				Pi - C	Potential problem source(s): number of Collateral fault logged, from events an	recognized within	Terr - No Tim	nperature condition: ane e condition: ane er conditiona:							- US emissions warning lamp: on			Breakdown rotice: The engine reverts to its Imp-home program, continued vehicle operation is possible but downline workford homore preserve in	
MEVD17.2- BN2000	0x2EED 1201:		the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0304	Cylinder 4 Misfire Detected	Modire	Cyl 4	problem with midure 200 crank preation, ignition system or The numb mechanism. and	shaft revolutions. er depends on rpm i load factor.	none - En	igine ON - N	ne - None	NO	- Norse	Y	Collateral fault logged, from problem with mixture formation, ignition system or mechanism.	Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: on CC message: on	none	Possible apparent symptoms: - Reduced engine power	drivability is restricted, because power is reduced the driver should refrain from passing maneuvers. No	lone
							P	the combustion stroke in a particular cylinder is slower The diago han the combustion strokes on the orthogo of strokes method and the strokes the strokes of strokes of the strokes of strokes the stroke strokes the stroke stroke in a logged the stroke stroke in a logged the stroke stroke in a logged the stroke in a logged the stroke s	cetic fault code is when a specific	Volt - On	tage condition: sboard electrical system age between 9 V and 16							lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The disprcatic function mentions the destinant				P	on the other cylinders. number o events, v otential problem source(x): Collateral fault logged, from	with their negative ts on exhaust	V Terr - No	rperature condition: ane e condition:							- CC message: on - US emissions warning lamp: off				
MEVD17.2- BN2000	0x2EF#	Combustion misting, cylinder 4: damaging	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the pro- signable (second).	01104	Cylinder 4 Mafire Detected	Main	- C for	Collateral fault logged, from problem with midure similion, ignition system or mechanical components proper	vith their negative to on exhaust is, are recognized 1000 crankshaft ions. This must d in 4 intervals.	Oth	e condition: zne er conditions: rgine CN - N		NC-	- Norma		Collateral fault logged, from problem with mixture formation, ignition system or mechanical components	Because this is a secondary fault, start by receiving the primary faults	- US electronic engine power reduction: off	Date	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None No	icra
344000	12015	exhaust gas	signals (segment periods).	1000	operate of many pdf80003		i gra	include componing proces	d in 4 intervals. nostic fault code is when a specific		rgine ON - N tage condition: rboard electrical system age between 9 V and 15	- NORB		10.00			repairing the primary faults	- CC massage: nore     lamp: on     - ECE electoric engine     power reduction: on     - CC massage: on		and an an and a state may be (00000).	Norm Ne	
							n		when a specific f combustion miss with their negative ts on exhaust	Tart	nperature condition:							- CC message: on - US emissions warning				
MEVD17.2-		Combustion midition, cylinder & demantic	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm				P - C	Collateral fault logged, from emission	ts on exhaust is, are recognized gifte first 1000 haft revolutions	- No Oth	er conditions:				.	<ul> <li>Collateral fault logged, from problem with mixture formation, ignition system or</li> </ul>	- Because this is a secondary fault, start by	- US emissions warning lamp: off     - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	Gx2EF0 1201	exhauat gas after start sequence	signals (segment periods)	P0304	Cylinder 4 Mafre Detected	Matre	Cy14 d	macor, ignicon system or cranks mechanism. folio the combustion stroke in a particular cylinder is slower	wing the start.	none - En	ar conditions: rgine CN - N tage condition: rboard electrical system	ne - None	NO	- None	Y	mechaniam.	Decause this is a secondary taut, start by repairing the primary faults	- CC message: none lamp: on - ECE electronic engine	none	Combustion miss may be noticed.	None No	208
							P	an the combustion strokes on the other cylinders.		veita V	age between 9 V and 15							power reduction: on - CC message: on			Breakdown notice:	
			The diagnostic function monitors the duration of the combustion strokes and compares them with				P) - C	Potential problem source(x): The diago Defect in mixture formation - Defect in ignition system	estic fault code is when a specific f combustion miss recognized within	- No Time	rpensiture condition: e condition: ane er conditions:					Defect in moture formation     Defect in ignition system		US emissions warring lamp: on     US electronic engine power			Dreadoown roccu: The engine revents to its Imp-home program, continued vehicle operation is possible but drivability is restricted, because power is	
MEVD17.2- BN2000	0x2EF1 1201	Combustion misfiring, cylinder 5: Fuel injection desctivation	the remaining cylinders by assessing the rpm signals (segment periods).	P0305	Cylinder 5 Misfire Detected	Modire	Cyrs		recognized within shaft revolutions.	none - En	igine ON - N	ns - Nons	NO	- Norm	Y	Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults	- CC message: on	none	Possible apparent symptoms: - Reduced engine power	reduced the driver should refrain from passing manauvers. No	208
							i P Bi	particular cylinder is slower han the combustion strokes on the other cylinders. logged	estic fault code is when a specific	volta V	tage condition: nboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of				P.	Potential problem source(s): Defect in mixture formation effect	f combustion miss with their negative ts on exhaust	Terr - No Tirre	rperature condition: me e condition:					- Defect in mixture formation		- US emissions warning lamp: off				
MEVD17.2- BN2000	0x2EF2 1201	Combustion mistiring, cylinder 5: damaging exhaust gas	I he augnose: function increases the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0305	Cylinder 5 Minfre Detected	Mafre	- 0/15	Defect in ignition system     Mechanical defect     Defective DME     n	is, are recognized 1000 crankshaft evolutions.	- No Othe none - En	er conditions: rgine ON - N	ne - None	NO	- None	Y	Defect in ignition system     Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: off     CC message: none	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None Na	ione
							l l	the combustion stroke in a maticular colorder is slower. The deput	creatic fault code is	Volt - On	tage condition: nboard electrical system age between 9 V and 15							- ECC electronic warrang lamp: on - ECC electronic engine - CC message: on				
								Potential problem source(s): effect	when a specific f combustion miss with their negative ts on exhaust	Volta V Terr - No	rperature condition:											
MEVD17.2-		Combustion misfiring, cylinder 5: damaping	The diagnostic function monitors the duration of the combustion strokes and compares them with the remaining cylinders by assessing the rpm				-	Defect in mixture formation emission - Defect in ignition system - Mechanical defect cranks	is, are recognized g the first 1000 haft revolutions	Tim - No Oth	nperature condition: ane e condition: ane er conditiona:					Defect in mixture formation     Defect in ignition system     Mechanical defect	- Because this is a secondary fault, start by	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2EF3 12011		signals (segment periods).	P0305	Cylinder 5 Mattre Detected	Matre	P	Defective DME folio	ving the start.	Volt	rgine ON - N tage condition: nboard electrical system	ne - None	NO	- None	Y.	- Defective DME	repairing the primary faults	- CC message: none	none	Combustion miss may be noticed.	Norm N	2798
							p.	on the other cylinders.		volta	age between 9 V and 16							ECE electoric engine power reduction: on - CC message: on			Breakdown notice:	
			The diagnostic function monitors the duration of the combustion strokes and compares them with				P - C -	Potential problem source(s): The diago Defect in mixture formation Defect in ignition system - Mechanical defect events are	testic fault code is when a specific f combustion miss recognized within	- No Time - No	nperature condition: zne e condition: zne er conditions:					Defect in mixture formation     Defect in ignition system     Mechanical defect		US emissions warning lamp: on     US electronic engine power reduction: on     Of measurements			The engine rewerks to its imphone program, continued whick operation is possible but drivability is readirate. because power is reduced the driver aboutd refrain from passing	
MEVD17.2- BN2000	0x2EF4 12020	Combustion misfring, cylinder 6: Fuel injection deactivation	the combustion strokes and compares them with the nematining cylinders by assessing the rpm signals (segment periods).	P0305	Cylinder 6 Miafire Detected	Mafre	Cyrs		recognized within shaft revolutions.	none - En	cine ON - N	ne - None	NO	None	Y	Mechanical detect     Defective DME	Because this is a secondary fault, start by repaining the primary faults	· co message. on	none	Possible apparent symptoms: - Reduced engine power	reduced the driver should refrain from passing maneuvers. No	<u>one</u>
							P B	the combustion stroke in a particular cylinder is slower han the combustion strokes on the other cylinders. logged	ostic fault code is when a specific		tage condition: hboard electrical system age between 9 V and 15							lamp: on - ECE electronic engine power reduction: on - CC message: on				
1			The diagnostic function monitors the duration of				P.	Potential problem source(s): events, v	t combustion miss with their negative ts on exhaust	Terr - No Tirr	nperature condition: ane e condition:					- Defect in mixture formation		- US emissions warning lamp: off				
MEVD17.2- BN2000	0+2EF5 1202	Combustion mistiring, cylinder 6: damaging exhaust gas	the combustion strokes and compares them with the remaining cylinders by assessing the rpm signals (segment periods).	P0306	Cylinder 6 Minfre Detected	Mafre	Cyl6	Defect in ignition system     Mechanical defect     Defective DME	ta on exhauat Ia, ane recognized 1000 crankshaft wolutions.	- No Othe none - En	e condition: ane er conditions: rgine CN - N	ne - None	NO	- None	Y	Defect in mixture formation     Defect in ignition system     Mechanical defect     Defective DME	Because this is a secondary fault, start by repairing the primary faults.	US electronic engine power reduction: off     CC message: none	Date	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None Ne	ione

								the combustion stroke in a particular cylinder is slower than the combustion strokes	The diagnostic fault code is	Voltage condition: - Onboard electrical system					lamp: on - ECE electronic engine power reduction: on - CC message: on				
			The diagnostic function monitors the duration of					than the combustion strokes on the other cylinders. Potential problem source(s): - Defect in mixture formation - Defect in ignition system	The diagnostic fault code is logged when a specific number of combation misa events, with their negative effects on exhaust emissions, are recognized during the final 1000 crankdulat revolutions following the start	voltage between 9 V and 10 V Temperature condition: - None Time condition:			- Defect in mixture formation		power reduction: on - CC message: on - US emissions warning lamp: of				
MEVD17.2- BN2000 MEVD17.2-	0x2EF6 12	2 exhaust gas aren stan sequence	the combustion strokes and compares them with the remaining cylinders by assessing the rpm alignals (segment periods).	P0306	Cylinder 6 Mafire Detected	Matre	Cyl 6	Defect in ignition system     Mechanical defect     Defective DME	during the first 1000 crankshaft revolutions following the start.	- None Time condition: - None Other conditions: - Engine CN	- None NO	- Nores Y	- Defect in mixture formation     - Defect in priction system     - Mechanical defect     - Defective DME	- Because this is a secondary fault, start by repairing the primary faults	US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Combustion miss may be noticed.	Breakdown notice: None	None
BN2000	0x2EFE 12 0x2EFF 12 0x2F00 12			P0300 P0301 P0302	RandomMultiple Cylinder Maline Detected Cylinder 1 Maline Detected Cylinder 2 Maline Detected	Matre Matre Matre	O/1 C/12												
BN2000 MEVD17.2- BN2000	0x2F01 12 0x2F02 12	а.		P0303 P0304	Cylinder 3 Mafre Detected Cylinder 4 Mafre Detected	Mafre Mafre	0/3 0/4												
BN2000 MEVD17.2-	0x2F03 12	15		P0305 P0305	Cylinder 5 Mafre Detected Cylinder 6 Mafre Detected	Matre Matre	0/15 0/16												
								The fault is recognized when the spark duration is too		Voltage condition: - Onboard electrical system voltage between 9 V and 10 V Temperature condition:					lamp: of - ECE electronic engine power reduction: off - CC message: none				
MEVD17.2-		Ignition circuit, supply voltage: Bank or engine	The diagnosis function simultaneously monitors					short in all cylinders at once. Potential problem source(x): - Defect in central voltage	If the fault 7, then it is	- None Time condition: - None Other conditions:					US emissions warning lamp: on     US electronic engine power reduction: on	antion failure encompassing all cylinders, fault	Possible apparent symptoms:	Breakdown notice:	
BN2000	0x2F44 12	0 failure	the spark dutation in all cylinders.					augply	logged.	Terminal 15 - Ergine ON	- None NO	none N	Defect in central voltage supply	Check power supply of ignition cols	CC massage: on     ECE emissions warning	detected when all combustion durations = 0 ma,	Motor dass not run	Nore	Norm
								The fault is recognized when		Voltage condition: 0 Temperature condition: 0					ECE electronic engine     power reduction: off     US electronic engine				
MEVD17.2- BN2000	0x2F45 12	Imegular operation, single cylinder filling: Torque	The diagnostic function monitors the 7					Potential problem source(x): . 7 . 7	If the fault 7, then it is logged.	Time condition: 0 Other conditions: 0	o 0	0 0	-7 -7	- 7 - 7	US emissions warring larep: off - ECE electoroic engine power reduction: off - US electoroic engine power reduction: off - CC massage: none No	0 Cur	Possible apparent symptoms: domer perception in prose at this juncture	Breakdown notice: 0	0
								a high number of intense knock events is detected during engine operation in the upper end of the load range.		Onboard electrical system voltage between 9 V and 10 V Temperature condition:					ECE emissions warning larsp: off     ECE electronic engine power reduction: off     CC message: none				
								Potential problem source(s): - Mause, terminal status switch during vehicle	The diagnostic fault code is	- Engine warmed to normal temp, above 80 °C Time condition: - None			- Misuse, terminal atatus switch during vehic	If the diagnostic tault code has been logged once, clear the ECU tault memory	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x2F76 12	0 Super-knocking, cylinder 1: Injection awtich-off	The diagnostic function responds to extreme combustion knock by deactivating the injection at the fat cylinder.	P1340	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 1			operation - Temporary contamination in combustion chamber or a high number of intense	logged when the fault remains present for longer than 1 min.	Other conditions: - Engine on, in upper load sange - Onboard electrical system	temperature, more than 80°C  - None NO	none Y	operation - Temporary contamination in combustion chamber or intake passages	If the tault has been logged multiple times, check the spark plug, injector and ignition coil on the cylinder	US electronic engine power reduction: off     CC message: none     ECE emissions warning	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	None
								a high number of intense knock events is detected during engine operation in the upper end of the load range.		Onboard electrical system voltage between 9 V and 10 V Temperature condition: - Engine warmed to normal					lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function responds to extreme evolution bands build and units time the intention		Knock Control Fuel Cut-Off due to Super			Potential problem source(x): - Misure, terminal status switch during vehicle operation - Temporary contamination in	The diagnostic fault code is logged when the fault remains present for longer	V Temperature condition: - Engine seamed to norma serre, below 80 °C Time condition: - None Other conditions:			Mause, terminal atatus switch during vehic operation     Temporary contentination in combustion	If the diagnostic fault code has been logged once, clear the ECU task memory     If the diagnostic fault code has been logged to the binner, chart code has been logged	US emissions warning lamp: off     US electronic engine power				
MEVD17.2- BN2000	0x2#77 12	Super-knocking, cylinder 2: Injection switch-off	combustion knock by deactivating the injection at the 2nd cylinder.	PIJAI	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 2			a high number of intense knock events is detected	remains present for longer than 1 min.	Engine on, in upper load none tange     Onboard electrical system voltage between 9 V and 10	- Engine warred to normal temperature, more than 80°C - None NO	none Y	Temporary contamination in combastion     dhamber or intake passages	multiple times, check the injector and ignition coil at cylinder 2	reduction: off - CC message: none - ECE emissions warning lamp: off	none	Possible apparent symptoms: Engine runa poofly with power loss	Breakdown notice: None	None
								during engine operation in the upper end of the load range. Potential problem source(s):		V Temperature condition: - Engine warmed to normal temp, above 80 °C Time condition:				<ul> <li>If the discrossic fault code has been loosed</li> </ul>	ECE electronic engine power reduction: off - CC message: none     - US emissions warning				
MEVD17.2- BN2000	0.2578 **	2 Super-knocking, cylinder 3: Injection switch-off	The diagnostic function responds to extreme combustion knock by deactivating the injection at the 3rd cylinder.	P13A2	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 3			Mause, terminal status switch during vehicle operation     Temponary contamination in combustion chamber or	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	Time condition: - None Other conditions: - Engine on, in upper load none sange	- Engine warmed to normal temperature, more than 80°C - None NO	none	- Misuse, terminal atatus switch during vehic operation     - Temporary contemination in combustion dramber or testes passages	de once, clear the ECU taut memory	US emissions warning lamp: off     US electronic engine power reduction: off     CC message: none	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	Norw
		a contraction of the						a high number of intense knock events is detected during engine operation in the upper end of the load range.		Onboard electrical system voltage between 9 V and 10 V V					ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC message: none				
								Potential problem source(x): - Mause, terminal status switch during vehicle	The diagnostic fault code is	- Engine warmed to normal temp, above 80 °C Time condition: - None			- Mause, terminal atatus switch during vehic	If the diagnostic fault code has been logged once, clear the ECU huit memory     If the diagnostic fault code has been logged     if the diagnostic fault code has been logged	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x2F79 12	3 Super-knocking, cylinder 4: Injection switch-off	The diagnostic function responds to extreme combustion knock by deactivating the injection at the 4th cylinder.	PIJAJ	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 4			Temporary contamination in combustion chamber or	logged when the fault remains present for longer	- Engine on, in upper load itange - Onboard electrical system		none Y	operation - Temporary contamination in combustion chamber or intake passages	If the diagnostic fault code has been logged multiple times, check the injector and ignition     coll at cylinder 4	- US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	Noras
								a high number of intense knock events is detected during engine operation in the upper end of the load range.		voltage between 9 V and 10 V Temperature condition					ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC message: none				
MEVD17.2			The diagnostic function responds to extreme combustion knock by deactivating the injection		Knock Control Fuel Cut-Off due to Super			Potential problem source(x): - Misuse, terminal status switch during vehicle operation - Temporary contamination in membrasing obtained as a	The diagnostic fault code is logged when the fault remains present for longer	Engine warmed to normal temp, above 80 °C Time condition: None Other conditions:			Mause, terminal atatus switch during vehic operation     Temporary contension in combustion	If the diagnostic fault code has been logged once, clear the ECU taut memory     If the fault has been logged multiple times, check the spark plug, injector and ignition coll on	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible accorent symptoms:	Breakdown notice:	
MEVD17.2- BN2000	0x2F7A 12	Super-knocking, cylinder 5: Injection switch-off	combustion knock by deactwating the injection at the 5th cylinder.	PIJA4	Knock Control Puel Cut-Off due to Super Knocking Cylinder 5			Temporary contamination in combustion chamber or a high number of intense knock events is detected during engine operation in the upper end of the load range.		Engine on, in upper load     none     strop     Onboard electrical system     voltage between 9 V and 10     V	temperature, more than 80°C I - None NO	7078 Y	Temporary contamination in combustion     chamber or intelle passages	the cylinder	CC message: none     ECE emissions seminer	none	Possible apparent symptoms: Engine runs poorly with power loss	Nora	None
								during engine operation in the upper end of the load range. Potential problem source(x): - Misuse, terminal status		V Temperature conditor: - Engine warmed to normal temp, above 80 °C Time condition:				- If the diagnostic fault code has been logged	lamp: off - ECE electronic engine power reduction: off - CC message: none - US emissions warring				
MEVD17.2- BN2000	0128778 17	5 Super-knobing, cylinder 5; Injection switch-off	The diagnostic function responds to extreme combustion knock by deachisting the injection at the Eth cylinder.	P1345	Knock Control Fuel Cut-Off due to Super Knocking Cylinder 6			switch during vehicle operation - Temporary contamination in combustion chamber or	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	- None Other conditions: - Engine on, in upper load cone sage	- Engine warmed to normal temperature, more than 80°C - None NO	7028 V	Mause, terminal status switch during vehic operation     Temporary contamination in combustion during or initiate passages	cle once, clear the ECU tault memory	- CC message: none	none	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	None
								a high number of intense knock events is detected during engine operation in the upper end of the load range.		Onboard electrical system voltage between 9 V and 10 V Temperature conditor:					ECE emissions warning lamp: off     ECE electronic engine power reduction: off				
								Potential problem source(s):	The diagnostic fault code is	- English water Columnia temp, above 80 °C Time condition: - None Other conditions:			- Mause, terminal atatus switch during vehic	- If the disgnostic fault code has been logged once, clear the ECU fault memory	- CC message: none - US emissions warning tamp: off				
MEVD17.2- BN2000	0x2F7C 12	6 Super knocking: Injection switch-off	The diagnostic function responds to extreme combustion knock by desclosing the intection.	P137F	Knock Control Fuel Cut-Off due to Super Knocking	Knock Control System	Super Knocking	switch during vehicle operation - Temporary contamination in combustion chamber or	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	- Engine on, in upper load     none     Orboard electrical avatem	Engine warmed to normal     Itemperatures, more than 80°C     None     NO	none Y	operation - Temporary contamination in combustion chamber or intake passages	cle once, clear the ECU fault memory - If the tauth has been logged multiple times, check the spark plug, injector and ignition coil on the cylinder.	US electronic engine power reduction: off     CC message: none	nore	Possible apparent symptoms: Engine runs poorly with power loss	Breakdown notice: None	Norm
								The fault is recognized when		voltage between 9 V and 10 V Temperature condition: - None Time condition: - 5 acc. after engine on Other condition:					ECE emissions warning lamp: on     ECE electronic engine     power reduction: on     CC message: on				
MEVD17.2-		Ignition timing advantment in inter-road entert	The diagnostic function monitors the ignition angle while the catalytic converter is being					The fault is recognized when the ignition-angle adjustment is outside the tolerance range. Potential problem source(s):	The diagnostic fault code is logged when the fault remains present for longer	Time condition: - 5 sec. after engine on Other conditions: - Engine on and running at idle					- US emissions warning lamp: off - US electronic engine power reduction: off	US only, fault based on legislative requirement,	Possible apparent symptoms:	Breakdown notice:	
	0x2F83 12		ange whee the catalytic conversion is being heated.	PoscB	Cold Start Ignition Timing Performance	Ignition Timing	Cold Start	Poor fuel quality	than 2 min.	- Catalyst heating (skeays - Catalyst heating (skeays - Onboard electrical system voltage between 9 V and 10 V	- None - 5 sec. after engine on None	None Y	- Poor fuel quality	- Replace fuel	- CC message: none     - ECE emissions warning     lamp: of     - ECE electronic engine	US only, suit dasks on signative requirement, probably will never occur	- sone	- none	- 1018
								The fault is recognized when the ignition-angle adjustment is outside the tolerance		V Temperature condition: - None Time condition: - 5 sec. after engine on					- CC message: none				
MEVD17.2- BN2000	0x2F84 12	Ignition timing adjustment at partial load, cold 4 start: Ignition timing too early	The diagnostic function monitors the ignition angle while the catalytic converter is being heated.	PISEA	Cold Stati Ignition Timing Parlomance Of Ida	Ignition Timing	Cold Start	range. Potential problem source(s): - Poor fuel quality	The diagnostic fault code is logged when the fault remains present for longer than 2 min.	- 5 sec. after engine on Other conditions: - Engine on and running at atte - Catalyst heating (always	- None - 5 sec. after engine on None	None Y	- Poor fuel quality	- Replace fuel	- US electronic engine power	US only, fault based on legislative requirement, probably will rever occur	Possible apparent symptoms: - none	Breakdown notice: - none	- 7576
								votage is present at the DME input (E_U_IGN) although the overload- protection neilay for givition and injection has aveliched off.	7	Voltage condition: - Onboard electrical system voltage between 9 V and 10 V									
								Potential problem source(s):		Temperature condition: - None Time condition: - 5 sec. after deactivation of			- Wring harness between DME and overloo	<ul> <li>Inspect wiring harmons between overload- extension over to be invited and intension and</li> </ul>	ELE emission warning lamp: off     ECE electoric engine power reduction: off     CC message: none				
MEVD17.2- BN2000	0x2F8A 12	<ol> <li>Ignition, voltage supply: Short circuit to B+</li> </ol>	The diagnostic function monitors the power- supply wire providing voltage to the individual ignition colls from the overload-protection relay for ignition and ignication, heading for open wires and shorts to ground.					Wring harness between DME and overload-protection relay for ignition and injection is defective Defect in overload-	This fault is logged in the control module's fault memory immediately.	overload-protection relay to ignition and injection Other conditions: - Shutdown phase (Termins form (87)	- 5 sec. siter deactivation of overload-protection relay for gation and rejection NO	U N	protection relay for ignition and injection is detective - Defect in overload-protection relay for igniti and injection - Defective DME	DME	US emissions warning lamp: off     US electronic engine power reduction: off     CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	Norw
		a contraction of the second se						- Detect in oversize no voltage is present at the DME input (E, U_JGN) although the overload- protection relay for ignition and injection has switched	(		Second Se		Concern Date.						
								and injection has switched on. Potential problem source(s): - Fuse defective		Voltage condition: - Onboard electrical system voltage between 9 V and 10					ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC message: none				
			The diagnostic function monitors the power- supply wire providing voltage to the individual invition on the form the owner/and-content on allow					Defect in wiring harness between overload-protection relay for ignition and	This fact is how to the	V Temperature condition: - None Time condition:			Prase defective     Defect in wiring harman between overload protection relay for inguitor and njection, as     DME     DME     Defect in overload-contaction relay for ioniti	<ul> <li>Replace coefficient entertion rates for ignition</li> </ul>	- US emissions warning				
MEVD17.2- BN2000	0x2F85 12	Ignition, voltage supply: Line disconnection or abort circuit to earth	ignition colla from the overload-protection relay for ignition and injection, checking for open wires and shorts to ground.					injection, and DME - Defect in overload- protection relay for ignition the spark duration is below a value stored in the program	This fault is logged in the control module's fault memory immediately.	- None Other conditions: Terminal 15 - none Voltage condition:	- None ND	u N	Defect in overfoad-protection relay for lights     and injection     Defective DME	on - Replace overload-protection relay for ignition and injection - Replace DME	US electronic engine power reduction: off - CC message: none - ECE emissions warning large: off	none	Possible apparent symptoms: Non-starter	Breakdown notice: None	Norse
								map.		Onboard electrical system voltage between 9 V and 10 V				- Replace spark plug	lamp: off - ECE electronic engine power reduction: off - CC message: none			Breakdown notice:	
MEVD17.2-		Combustion miss, cylinder 1: Speek duration too	The diagnostic function monitors the spark					Potential problem source(x): - Defective spark plug - Defect in wiring harness between ignition coll and DME	The diagnostic fault code is logged when the fault counter	Temperature condition: - None Time condition: - None Cher conditions:			Defective spark plug     Defect in wining harness between ignition is     wing dotted     Defective ignition col	Check wring harness between ignition coil and DME Check ignition coil Replace DME if the fault code remains logged	US emissions warning lamp: on     US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice: Continued dhiving possible if only the one cylinder is affected. The ignition miss detection should recognise the affected cylinder and deactivate the injection to protect the catalytic	
BN2000	( 0x2FA8 12	80 ahort	duration.					Defective ignition col     the spark duration is below a     value stored in the program     map.	total is above 320.	none - Engine CN Voltage condition: - Onboard electrical system voltage between 9 V and 10	- None ND	none N	- Defective DME	continuocaly	- CC message: on     - ECE emissions warning     lamp: of     - ECE electronic engine     power reduction: off	none lg	pilion miss and hard starting can occur.	convertier.	None
								Potential problem source(s):		V Temperature condition: - None			- Defective spark plug	Replace spark plug     Check wing harness between ignition coll and     DME	- CC message: none			Breakdown notice: Continued driving possible if only the one	
MEVD17.2- BN2000	0x2#A9 12	Combustion miss, cylinder 2: Spark duration too short	The diagnostic function monitors the spark duration.					Defect in wiring harness between ignition col and DME     Defective ignition col     the spark duration is below a	The diagnostic fault code is logged when the fault counter total is above 320.	Time condition: - None Other conditions: - Engine ON	- None - None rome	noze N	Defect in wining harrwase between ignition of and DME     Object via galaxies of the object of	col DME - Check (pition col - Replace DME if the fault code remains logged continuously	lamp: on - US electronic engine power reduction: on - CC message: on - ECE emissions warring	none la	Possible apparent symptoms: nition mias and hard starting can occur.	cylinder is affected. The ignition miss detection should recognize the affected cylinder and deactivate the injection to protect the catalytic converter.	Noras
								the spark duration is below a value stored in the program map.		Voltage condition: - Onboard electrical system voltage between 9 V and 10 V					ECE emissions warning lamp: off     ECE electronic engine power reduction: off     CC message: none				
								Potential problem source(x): - Defective spark plug - Defect in wiring harness between ignition coll and DME	The diagnostic fault code is	V Temperature condition: - None Time condition: - None			- Defective spark plug - Defect in wing hermas between ignition a and DME	Replace spark plug     Check wing harness between ignition coil and     DME     Check ignition coil	- US emissions warning lamp: on - US electronic engine power			Breakdown notice: Continued driving possible if only the one cylinder is affected. The ignition miss detection should recognize the affected cylinder and	
MEVD17.2- BN2000	0x2FAA 12	Combustion misfiring, cylinder 3: Spark duration too short	The diagnostic function monitors the spark distation.					Defective ignition coll     the spark duration is below a     value stored in the program	logged when the fault counter total is above 320.	Cher conditions: - Engine CN Voltage condition:	- None - None NO	none N	- Detective lysition col     - Detective DME	Replace DME if the fault code remains logged continuously	reduction: on     - CC message: on     - ECE emissions warning	nome la	Possible apparent symptoms: nition miss and hard starting can occur.	deactivate the injection to protect the catalytic converter.	None
								Potential problem source(s):		- Onboard electrical system voltage between 9 V and 10 V Temperature condition				- Replace spark plug	lamp: of - ECE electronic engine power reduction: off - CC message: none			Breakdown notice:	
MEVD17.2-			The diagnostic function monitors the spark					Defective spark plug     Defect in wiring harness     between ignition coll and     DME     Defective institute coll		- None Time condition: - None Other conditions: - Encine (N	- Norma		Otherstive spark plug     Otherst in wing harness between ignition of and DME     Othersting in the second se	Check wing harness between ignition coil and DME     Check ignition coil     Replace DME if the fault code remains logged     rendmannix	US emissions warning lamp: on     US electronic engine power reduction: on     CC message: on		Possible apparent symptoms:	Continued driving possible if only the one cylinder is affected. The ignition miss detection about necognize the affected cylinder and deactivate the injection to protect the catalytic crossible.	
<u>8N2000</u>	12	3 abot	duntion.					Defective lightion coll     the spark duration is below a     value stored in the program     map.	total is above 320.	none - Engine CN Voltage condition: - Onboard electrical system voltage between 9 V and 10	- NEOB 0008	none N	- Defective DME	continuously	- CC message: on     - ECE emissions warning     lamp: of!     - ECE electronic engine     power reduction: of!     - CC message: none	nore ig	nition miss and hard starting can occur.	converter.	NC08
								Potential problem source(x): - Defective spark plug - Defect in wiring harness		V Temperature condition: None			- Defective spack plug - Defect in wing harman between spation :	Replace spark plug     Check wiring harness between ignition coil and     DNE	cCC message: none - CC message: none - US emissions warning lamp: on			Breakdown notice: Continued driving possible if only the one cylinder is affected. The ignition miss detection	
MEVD17.2- BN2000	0x2FAC 12	Combustion miss, cylinder 5: Spark duration too short	The diagnostic function monitors the spark duration.					Detective ignition col     Defective ignition col	The diagnostic fault code is logged when the fault counter total is above 320.	Time condition: - None Other conditions: none - Engine CN	- None NO	none N	- Lease: In wining naminal between granter is and DME     - Defective lightfor col     - Defective DME	- Check ignition coll - Replace DME if the taut code remains logged continuously	- US electronic engine power reduction: on - CC message: on	none lg	Possible apparent symptoms: nilion miss and hard starting can occur.	cylinoir a microite. I milligneon mas execution should recognize the affected cylinder and deactivate the injection to protect the catalytic converter.	None

				the spark duration is below value atoms in the progr	••					ECE emissions warning		
				value stored in the progra map.	87	- Undeard electrical system				lamp: off - ECE electronic engine power reduction: off - CC message: none		
				Defect in wiring harnes between ignition coil an	a The diagnostic fault code is	- None		- Defect in wiring harness between ignition coll and DME	Check wring harness between ignition coil and DME     Check ignition coil     - L	lamp: on S electronic engine power		cylinder is affected. The ignition miss detection should recognize the affected cylinder and
	MEVD17.2- BN2000 0x2#AD 12			DME - Detective ignition col	logged when the fault counter total is above 320.	rone - Ergine ON - None - None - None	ND none N	Defective ignition col     Defective DME	continuously	- CC message: on lamp: on	Possible apparent symptoms: none Ignition miss and hard starting can occur.	
				seraor signal is detecte athough a signal from th careabalt position senaor research	d, na ita	v				power reduction: on - CC message: on	Prosble arrowed symptomy	
				Potential problem asurce	(8):	- None Other conditions:		- Defect in wiring hameas between DME and	<ul> <li>Check wining harness between DME and</li> <li>L</li> </ul>	- US emissions warning lamp: on IS electronic engine power	Plauti leads to ATLCTLmax (I/C Text L&L4: 7Boost-pressure control, descivation: Boost- pressure generation disabled?; FC (Dec./Hes) can be feit / it is possible to restart engine when	Breakdown notice: The engine reverts to its emergency imp-home program, continued vehicle operation is
	MEVD17.2- BN2000 0x2FDA 12	The diagnostic function monitors the carekahelt Crankahelt sensor, signet: missing sensor. P0335	Crankshaft Position Sensor W Circuit Crankshaft Position Sensor	Electrical sensor	revolutions	none - engine on, with engine - None - None	NO NO N	csarkahaft sensor - Crankshaft sensor delective	Replace crankshaft sensor	- CC message: on	LS: 1105080 / 0x129408; PC (Dec./Hex) L4: the fault is present (starting takes longer), 11352 / 0x2C98) engine runs in Imp-home mode	possible, because power is reduced the driver should refrain from passing maneuvers.
				Potential problem assurce	(8)	V V				ECE emissions warning lamp: on - ECE electronic engine		
				Defect in wing harnes between DNE and cranted sensor     Oacitation in reluctor in	na hadt	- None Time condition: - None		- Defect in wiring hameas between DME and crankshaft sensor	- Check wiring harness between DME and	- CC message: on	Possible apparent symptoms: Fault leads to ATLCTLmax (PC Text LSL4: When the fault is loosed the ensine shifts at	Breakdown notice:
	MEVD17.2-		Crankahaft Position Sensor 'A' Circuit	(for instance, when start engages) - Reluctor rise contamina	er ted	Other conditions: - Terminal 50 (stanter) or, - engine cr., with engine		starter engages) - Reluctor ring contaminated or defective	crankshaft sensor	Lamp: on S electronic engine power reduction: on	7Boost-pressure control, descrivation: Boost- pressure generation disable/2°; FC (Dec./Hea) L6: 1180260 / Ox129400; FC (Dec./Hea) L4: the fault is present particing takes longer),	The engine reverts to its emergency imp-home program, continued vehicle operation is possible, because power is reduced the driver
	BR2000 BR200B 12	231 California surace Leasted conscient ages amos. PU.36	Pangervenomance Crankaner Position Sensor	the engine is synchronize using a secure initial posit	tion	none ispee > sou rpm - none - none - none	NU INU IT	- Crankshart sensor denective			113527 (82C58) engine runs in empireme mose	should remain from passing manauvers.
				sensor was permanent		Onboard electrical system				lame: eff		
				Potential problem source - Defect in wining harnee between DME and crankal sensor	(A): In haft If the reference mark was	V Temperature conditor: - None Time conditor:		Defect in wiring harness between DME and crankabalt sensor     Oscillation in reluctor ring (for instance, when				
	MEVD17.2- BN2000 0x2#DD 12	The diagnostic function monitors the crankshaft P13CE	Crankahalt Parking Position Implausible Crankahalt	Oacillation in reluctor in (for instance, when start Parking Position engages)	ng incomect by during the er MSA automatic engine start/stop.	- None Ober conditions: none - Engine on with MSA start - None - None	NO NO N	- Defective relactor ring	crankshaft sensor - L - Inspect installation of crankshaft sensor - Replace crankshaft sensor	S electronic engine power reduction: off - CC message: on	Possible apparent symptoms: none Extended starting times	Breakdown notice: None
				the engine is turning ow and no fault related to th	er Ne	Voltage condition: - Onboard electrical system voltage between 9 V and 95 V				ECE electronic engine power reduction: on - CC message: on		
				Potential problem source	(n): m	- None				US amiasions warning	Fault leads to ATLCTLmax (IfC Text L&L4: Possible apparent symptoms: 7Boost-pressure control, descivation: Boost- Extended starting times and power loss, if it	Breakdown notice: The engine revents to its emergency imp-home
				position sensor or cranket Intake Electrical sensor. The fault is recognized wi	salt signal from carrahaft reluctor	none - Engine CN - None - None	NO NO N		camphaft position sensor - Camphaft sensor defective	- CC message: on	pressure generation disassion (* 14 (uiez.mai) L6: 118560 / 0x120408; 17C (Dec./Hoi) L4: 11352 / 0x2058) possible possible	program, contrued version operation is possible, because power is reduced the driver should refrain from passing maneuvers.
				the engine is turning ov and no fault related to th crankahaft sensor is prese	er Na Ird.					ECE electronic engine power reduction: on - CC message: on		
				Potential problem source	(8)	- None Time condition:				- US emissions warning lamp: on S electronic engine power	Fault leads to ATLCTLmax (FC Text LSL4: 7Boost-pressure control, deactivation: Boost- pressure control, deactivation: Boost- pressure control, dealed/17 FC (Dec./Hea) appears in combination with an exhaust	The engine reverts to its emergency imp-home
	MEVD17.2- BN2000 0x300D 12	201 Istale carrabalt senso: Signal low constant function monitors the Istale carrabalt senso: Signal low constant position sensor. PO342	Camahafi Position Sensor W Circuit Low (Bank 1 or Single Sensor) Camahafi Position Sensor	Intake Electrical position sensor or crankat sensor. The fault is recognized wi	hait signal from carnahait reluctor	Other conditions: - Engine CN - None - None	NO NO N	Defect in wiring harness between DME and carreliant position sensor or crankahaft sensor.	camahaft position senaor - Camahaft sensor defective	reduction: on - CC message: on	L6: 1100580 / 0x120408; FC (Dec./Hoo) L4: camabalt sensor fault then no restart is 11352 / 0x2058) possible	possible, because power is reduced the driver
				the engine is turning ow and no tauk related to th crankshaft sensor is prese	67 16	voltage between 9 V and 95 V Temperature condition:				- CC message: on		
				Potential problem source; - Defect in wining harmes between DME and camab	(s): is nait 1 Carrishaft rotates but no	- None Time condition:				- US emissions warning lamp: on IS electronic engine power	Pault leads to ATLCTLmax (PC Text L&L4: 7Boost-pressure control, desctivation: Boost- pressure generation databate?; PC (Dec./Has) Extended sturting times and power loss, if it	Breakdown notice: The engine reverts to its emergency imp-home program, continued vehicle operation is
			Universities and a sensor of Circuit High (Bank Carrahoft Position Sensor.			none - Engine CN - None - None	NO NO N	Defect in wring harness between DME and carrohalt position sensor or cranishaft sensor.	Carrahaft sensor defective	- CC message: on	Instantial Contractives; the precirities (L4: appears in combination with an intake careabatt     11352 / 0/2026)     annor fault then no restart is possible	posses, because power is reduced the driver should refrain from passing managores.
						voltage between 9 V and 95 V Temperature condition:				ower reduction: on - CC message: on		
No. 10.	MURITY 2		Consultable Denaision Researce W. Consult I are (Barch	Defect in wiring harnes     between DME and carrait	at 1 Camahaft rotates but no	Time condition: - None		Parlant in uniting between bottoms DME and	- Check wiring harness between DME and - L	lamp: on S electronic engine power	7Boost-pressure control, deactivation: Boost- pressure generation disabled?; FC (Dec./Hes) Extended starting times and power loss, if it	The engine reverts to its emergency Imp-home program, continued vehicle operation is
	BN2000 0x300F 12	176 aagraate turkoon monton tee anual     176 aagraate turkoon monton tee anual     203     204 Euhaust cumshell sensor: Signal low     20267     20267     20267		Exhaust Electrical sensor. The fault is recognized wi	reluctor	none - Engins CN - None - None Vollage condition: - Orbitage for a factorial avatem	NO NO N	<ul> <li>Lenct in wring nameas between Unit: and carrahaft position sensor or crankshaft sensor.</li> </ul>	- Carrahaft sensor defective	- CC message: on	Lic: 1100607 (Xr.22400; PC, (Disc.Philo) Lic: 113527 (bi2C58) aeraor fault then no restart is possible	
				rings run through the adaptation routine durin initial start or following	10	vollage between 9 V and 16 V Temperature condition:				power reduction: off - CC message: on		
	MEVD17.2-	The dispressic function monitors the installation		Potential problem sources - Incorrect installation o	(s): f When assembly test is	- None Other conditions:			- Install intake carsshaft correctly	lamp: on S electronic engine power reduction: on	TBoost-pressure control, deactivation: Boost- Pressure generation disabled? (FC (Dec./Hea) L6: 1100600 / 0x120400; FC (Dec./Hea) L4: Possible apparent symptoms:	program, continued vehicle operation is possible, because power is reduced the driver
	BN2000 0x3011 12	205 Intake carrahaft, mechanics: Assembly Isulty position of the intake carrahaft. P13CA	W Carrahaft Incorrect Assembly Carrahaft	The fault is recognized with the camphaft sensor relac	hen for	Voltage condition: - Onboard electrical system	NO NO N	- Incorrect installation of intake carrahalt		Lamp: of ECE electronic engine	11352 / 0x2C58) None	should refrain from passing maneuvers.
				adaptation routine durin initial start or following	a .	V Temperature conditor: - None				US amiasions warning	Fault leads to ATLCTLmax (FC Text LSL4:	Breakdown notice:
			W Combrid Jacometry	- Incorrect installation of		None     Other conditions:					7Boost-pressure control, descrivation: Boost- pressure generation disabled?; FC (Dec./Hes) L0: 180680 / 0x120400; FC (Dec./Hes) L4: Possible apparent symptoms: 1974 / co-free     None	The engine reverts to its emergency imp-home program, continued vehicle operation is possible, because power is reduced the driver
		den deng pandur is in Konton Linnings. F1240	General Inconcreteness	The fault is recognized with the signal from the know	ken k	Comment of the second store      Construction     Construction     Construct second system     Voltage between 92 van 55			- Pagaa vare ann g	Lamp: off - ECE electronic engine power reduction: off	Trade / Miladag	
				Potential problem source	(a):	V Temperature condition: - None			- If faults related to the knock sensors have	- US emissions warning		
No.         No. <td>MEVD17.2- BN2000 0x303E 12</td> <td>Krock control, tault check: Malkundion, system 50 tault - The diagnostic function monitors the quality of the signals from the knock semion. P0224</td> <td>KnockCombustion Vibration Control System Error Knock Control System</td> <td>- Defective wiring harnes</td> <td>is control module's fault</td> <td>Other conditions:</td> <td>NO none Y</td> <td>- Defective wiring harmess</td> <td>Check wiring harness between knock sensor . L     and DME</td> <td>S electronic engine power reduction: on</td> <td>Possible apparent symptoms: none Engine runs poorly with power loss</td> <td></td>	MEVD17.2- BN2000 0x303E 12	Krock control, tault check: Malkundion, system 50 tault - The diagnostic function monitors the quality of the signals from the knock semion. P0224	KnockCombustion Vibration Control System Error Knock Control System	- Defective wiring harnes	is control module's fault	Other conditions:	NO none Y	- Defective wiring harmess	Check wiring harness between knock sensor . L     and DME	S electronic engine power reduction: on	Possible apparent symptoms: none Engine runs poorly with power loss	
Normal         Normal<						Voltage condition: - Orbicard electrical system				ECE emissions warning lamp: off - ECE electronic engine		
No     <				ECU fault memory when I knock sensor's signal	e be	V Temperature condition: - None				MY11 US: - US emissions warning		
		Knock sensor, electrical: Signal, input A, short The diagnostic function monitors the sensor wire		Potential problem source - Defective wining harmes	(s): This fault is logged in the control module's fault	- None Other conditions:			and DME - L - Replace knock sensor	S electronic engine power reduction: on	Possible apparent symptoms:	
Mark Mark Mark Mark Mark Mark Mark Mark	BN2000 UKBUSF 12	as 1 crourts passive tor short oncurs. P1,54P	Mook Sarater 1 Circuit: A righ (bank 1) Mook Sarater	Sensor 1 - Knock sensor denotive	nemory immediately.	Voltage condition:	NU (NONE N	- KNOX SERVIC GENERAVE		ECE emissions warning	none Possicie reduction in power	None
Mark Mark Mark Mark Mark Mark Mark Mark				ECU tault memory when t knock sensor's signal	e be	V Terment recording				power reduction: on - CC message: on MY11 US:		
Image         Image <th< td=""><td>MEVD17.2-</td><td>Knock sensor, electrical: Signal, input A short The diagnosis: function monitors the sensor whe</td><td></td><td>Potential problem source - Defective writing harmen</td><td>a control module's fault</td><td>Time condition: - None</td><td></td><td>- Defective wiring harmens</td><td>Check wining harmass between knock sensor and DME     - Replace knock sensor</td><td>lamp: on S electronic engine power</td><td>Possible apparent symptoms:</td><td>Breakdown notice:</td></th<>	MEVD17.2-	Knock sensor, electrical: Signal, input A short The diagnosis: function monitors the sensor whe		Potential problem source - Defective writing harmen	a control module's fault	Time condition: - None		- Defective wiring harmens	Check wining harmass between knock sensor and DME     - Replace knock sensor	lamp: on S electronic engine power	Possible apparent symptoms:	Breakdown notice:
	BN2000 0x3040 12	352 decut to ground for short decuts. P13AE	Knock Sensor 1 Circuit W Low (Bank 1) Knock Sensor	Senaor 1 - Knock senaor defective	e memory immediately.		NO none N	- Knock sensor defective		ECE emissions warning lamp: off	none Possible reduction in power	None
				ECU tauk memory when t	te	voltage between 9 V and 16 V Temperature condition:				- CC message: on		
	MURITS.							Defection white because	Check wiring harmans between knock sensor and DME     Control of the sensor	- US emissions warning lamp: on IS electronic engine power		
	BN2000 0x3041 12	253 Oncommunity effective adjust, repeat, and     immunity effective adjust, repeat, and     for short clouds.     P1207	Knock Sensor 1 Circuit 10 High (Bank 1) Knock Sensor	Senaor 1 - Knock senaor defective	e memory immediately.		NO none N	- Knock sensor delective			none Possible reduction in power	Norse
				The fault is logged in th ECU fault memory when t	:	V Transmission constitue				ECE electronic engine power reduction: on - CC message: on MYTH 110-		
No. 10       No. 10				Potential problem source		- None Three condition: - None			Check witing harness between knock sensor and DME     - L	- US emissions warning lamp: on S electronic engine power		
	MEVD17.2- BN2000 0x3042 12	Knock sensor, electical: Bigual, lepat B, sheet         The diagnostic function monitors the sensor wire origin to ground         P1305           254         cincuit to ground         for short cincuits.         P1305	Knock Sensor 1 Circuit & Low (Bank 1) Knock Sensor	- Defective wiring harnes	a control module's fault	Other conditions: - Engine CN - None - None	NO none N	Defective wining hameas     Knock sensor defective	- Replace DME	reduction: on - CC message: on ECE emissions warning	Possible apparent symptoms: none Possible reduction in power	Breakdown notice: None
				The fault is logged in th ECU fault mercory when it	e bu	voltage between 9 V and 15 V				power reduction: on		
						Norm			- Check witing harmess between knock sensor	- US emissions warning lamp: on		
	MEVD17.2- BN2000 0x3043 12		Knock Sensor 2 Circuit 'A' High (Bank 1) Knock Sensor	Potential problem source - Defective wining harmon Sensor 2 - Knock sensor defective	e memory immediately.	none - Engine CN - None - None	NG none N			S electronic engine power reduction: on - CC message: on		
				The fault is logged in th	.	Voltage condition: - Onboard electrical system voltage between 9 V and 95				lamp: of ECE electronic engine power reduction: on		
				ECU fault memory when t knock sensor's signal voltage is below -0.7 V.	ha .	v Temperature condition: - Nome Time condition:			- Check within hamasa batween knock sensor	- US emissions warning lamp: on		
	MEVD17.2- BN2000 0x3044 12	Knock sensor 2, electrical: Signal, input A, short i The diagonatic function monitors the sensor wire 356 document to ground for short circuits. P1386	Knock Semer 2 Circuit /K Low (Bark 1) Knock Semer	- Defective wiring harnes	(x): This fault is logged in the control module's fault memory immediately.	- None Other conditions:	NO none N		and DME - L - Replace knock sensor - Replace DME	S electronic engine power reduction: on - CC message: on		Breakdown notice: Note
Image: second				The fact is lowed in th		Voltage condition: - Onboard electrical system voltage between 9 V and 15				ECE emissions warning lamp: off - ECE electronic engine power reduction: on		
No     <				ECU fault memory when t knock sensor's signal votinge is above 1 V.		V Temperature condition				- CC message: on MY11 US:		
No.         No. <td>MEVD17.2- BN2000 0x3045 17</td> <td>Kook samor 2, electrical: Signal, input 8, short 27. cecult to positive for short circuits. P1X*X</td> <td>Knock Sensor 2 Circuit '8' High (Bank 1) Knock Sensor</td> <td>Potential problem sources - Defective wining harnes</td> <td>(s): This fault is logged in the control module's fault memory immediately.</td> <td>Time condition: - None - None - None - None - None - None</td> <td>NO none N</td> <td></td> <td>- Replace knock sensor - Replace DME</td> <td>reduction: on - CC message: on</td> <td>Possible apparent symptoms: none Possible reduction in sover</td> <td></td>	MEVD17.2- BN2000 0x3045 17	Kook samor 2, electrical: Signal, input 8, short 27. cecult to positive for short circuits. P1X*X	Knock Sensor 2 Circuit '8' High (Bank 1) Knock Sensor	Potential problem sources - Defective wining harnes	(s): This fault is logged in the control module's fault memory immediately.	Time condition: - None - None - None - None - None - None	NO none N		- Replace knock sensor - Replace DME	reduction: on - CC message: on	Possible apparent symptoms: none Possible reduction in sover	
Normal										ECE emissions warning lamp: off - ECE electronic engine		
N         N				ECU fault memory when t knock sensor's signal	he	V Temperature condition: - None				CC message: on MY11 US:     US emissions warning		
N 1         N 1 <td>MEVD17.2-</td> <td>Kook senor 2, deciral Sgral, input B, shot The diagonalic function monitors the sensor wire</td> <td>Kanada Barana di Canada Maria da Maria</td> <td>Potential problem source - Defective wining harnes</td> <td>(s): This fault is logged in the control module's fault</td> <td>Time condition: - None Other conditions:</td> <td></td> <td>- Defective wiring harmens</td> <td>and DME - L - Replace knock sensor</td> <td>lamp: on S electronic engine power reduction: on</td> <td>Possible apparent symptoms:</td> <td>Breakdown notice:</td>	MEVD17.2-	Kook senor 2, deciral Sgral, input B, shot The diagonalic function monitors the sensor wire	Kanada Barana di Canada Maria da Maria	Potential problem source - Defective wining harnes	(s): This fault is logged in the control module's fault	Time condition: - None Other conditions:		- Defective wiring harmens	and DME - L - Replace knock sensor	lamp: on S electronic engine power reduction: on	Possible apparent symptoms:	Breakdown notice:
No. 100         No. 100 <t< td=""><td>BN2000 0x3046 12</td><td>diruti la gound for short circuits. P13C7</td><td>Knock Sensor 2 Circuit 15' Low (Bank 1) Knock Sensor</td><td></td><td></td><td>Chibbard electrical system     voltage between 9 V and 16     V</td><td>NO none N</td><td>- Knock sensor defective</td><td>- Replace DME</td><td></td><td>none Possible reduction in power</td><td>Nors</td></t<>	BN2000 0x3046 12	diruti la gound for short circuits. P13C7	Knock Sensor 2 Circuit 15' Low (Bank 1) Knock Sensor			Chibbard electrical system     voltage between 9 V and 16     V	NO none N	- Knock sensor defective	- Replace DME		none Possible reduction in power	Nors
No. 100         No. 100 <t< td=""><td></td><td></td><td></td><td>ECU fault memory when t</td><td>te l</td><td>Temperature condition: - Engine warmed to normal temp, above 80 °C The normal</td><td></td><td></td><td></td><td>ECE emissions warning lamp: off - ECE electronic engine</td><td></td><td></td></t<>				ECU fault memory when t	te l	Temperature condition: - Engine warmed to normal temp, above 80 °C The normal				ECE emissions warning lamp: off - ECE electronic engine		
Normal Sector				Potential poblem source - Knock senacr is detectiv	(n): n	i ime constion: - None Ofere constions: - Engine on			Check installation torque and installation     position of sensor     Check wiring harness	- CC message: on MY11 US: - US emissions warning		
Normal Sector		Knock sensor, signal Engine mechanically into     hour or Knockie between teachingh     the diagnostic bencion monitors the anglesia		or installed incorrectly - Engine too loud owing mechanical detect	to ot Debource via avant country	Relative charge factor     Engine warmed to normal		incorrectly - Engine too loud owing to mechanical detect	Check engine for mechanical defects (chain, crankshaft assembly)     Refuel with RCN 25 or higher     Benires dependence	lamp: on S electronic engine power reduction: on	Possible apparent symptoms:	
Vertical         Particular         Particula	013046 12	Intel Automotion Antonion Letterational TODIS TODIS TODIS	(Topic Service, L. N. Len, Diff. Service) Knock, Service			Onboard electrical system     voltage between 9 V and 95     V	1054 10001E N	- Low-quarity hall < RON 91		MARK BOD	vorum Possible reduction in power	NDOR
Vertical         Particular         Particula				The fault is logged in th ECU fault memory when t inference level is too low	e 240 W 200	Temperature condition: - Engine warmed to normal temp, above 80 °C Time conditions			- Check installation formus and installation	ECE electronic engine power reduction: on - CC mercane		
MEV/07.2 Mode wanter, trapit Bledical fault K3 (low and press Linden molton the hood molton fault and press Linden molton the hood molton fault and press Linden molton the hood molton fault and press Linden molton fa				Potential problem acurce	043	- None Other conditions: - Engine on	0:6437		position of sensor - Check wiring harness - Check engine for mechanical detects (chain,	<ul> <li>US emissions warning</li> </ul>		
	MEVD17.2- BN2000 0x3049 12			Knock sensor is detectly     or installed incorrectly     Sensor 1     - Wring harness defectly	ve Debource via event counter	- crigne speed above 2000 pom Engine warmed to normal none - Relative charge factor: > temperature, more than 80°C - None	0:5438 0:5439 NO 0:581E N	Knock sensor is defective or installed incorrectly     Wring herness defective	cranvahaft assembly) - L - Rebail with RCN (25 or higher - Replace knock sensor	- electronic engine power reduction: on - CC message: on	Possible apparent symptoms: none Possible reduction in power	Breakdown notice: None

Breakdown notice: Contraved diving possible if only the one finder is alfected. To any then mass detection absolds reception the alfected cylinder and exclusive the reports to protect the catelytic converties.	Nore
Breakdown rotice: w ergine reverts to its energinor, knychome program, contracted which operation its osabib, bacase power is reduced the driver about which from passing maneuvers.	À terminal status aveich mait be conducted before this fault can be disided.
Braikdoan rotice: w ergine werkt is its ansegrony imp-honse mogane, contrave which operation is osabite, because power is induced the driver about which from passing maneuvers.	A terminal status welch mait be conducted before this fault can be divided.
Breakdown notice: None	Norm
Breakdown notice: w ergine newrit to is emergency krep-home program, coefficial which expension is osable, because power is reduced for driver should refrain from passing maneuvers.	Norm
Breakdown rotics: w angline neverta to its emergincy inter-home program, confined vehicle operation it costible, because gover its net-code the chiver about seturin from passing maneuvers.	Norm
Breakdown notice: w engine revents to its emergency into-home program, continued whiche operation is analish, because gover is net-code the chrun about other in the continue management.	Non
Breakdown rotics: w argine reverts to its energyncy larg-home program, confinued whicks operation is anable, because power is reduced the driver ahould when hom passing maneuvers.	None
Breakdown rotics: w angine revents to its emergency inre-home program, confinced witcle operation is analish, because gover is net-code the chrun about refrain from passing maneuvers.	None
Breakdown notice: w anglen reverts to its energyncy larg-home program, confinued whicks operation is coable, because power is reduced the driver aboutd when hom passing maneuvers.	None
Breakdown notice: None	None
Brasildown rollos: None	None
Breakdown rotice: None	None
Brasildown rotics: None	None
Breakdown rolice:	
Breakdown nolice-	1600
None	Norm
Breakdown notice: None	Nern
Breakdown notice:	
None	None

								The fault is logged in the		Onboard electrical s     voltage between 9 V     V	stem nd 16					MY10 ECE:				
								ECU fault memory when the reference level is too high relative to the program map.		Temperature conditio - Engine warmed to n temp, above 80 °C Time condition:	c ormal									
								Potential problem source(s): - Knock sensor is defective							Check installation torque and installation     position of sensor     Check wing harness	ECE electronic engine     power reduction: on     - CC message: on     MY11 US:     US				
MEVD17.2-		Knock sensor 2. sjonal: Engine mechanically too	The disgnostic function monitors the engine's		Knock/Combustion Vibration Sensor 2 Circuit			Knock sensor is detective or installed incorrectly     Engine too loud owing to mechanical detect		Other conditions: - Engine an - Engine apsed above pm - Relative charge fact	1600 r - Engine warmed to normal		0x5A37 0x5A38 0x5A39	Knock sensor is defective or installed incorrectly     Engine too loud owing to mechanical defect	Check wiring harness     Check engine for mechanical detects (chain, crankshaft assembly)     Retual with RON S5 or higher	US emissions warning lamp: on     US electronic engine power reduction: on		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x304C 12364	loud or KS outside tolerance (sensitivity)	noise level.	P1328	High (Bank 1)	Knock Sensor	Sensor 2	- Low-quality feel < RON 91	Debource via event counter	none above 30% Onboard electrical s voltage between 9 V :		NO	0x581E N	- Low-quality fael < RON 21	- Replace knock sensor	- CC message: on	none	Possible reduction in power	None	None
								The fault is logged in the ECU fault memory when the reference level is too low		V Temperature conditio - Engine warmed to n temp, above 80 °C Time condition: - None						ECE emissions warning lamp: off     ECE electronic engine power reduction: on				
								relative to the program map.							Check installation torque and installation position of sensor     Check wiring harness	- CC message: on MY11 US: - US emissions warring				
MEVD17.2- BN2000	0/1040 17365	Knock sensor 2, signal: Electrical fault KS (loose contact) or KS loose	The diagnostic function monitors the knock sensor's electrical signal.	P1377	Knock/Combustion Vibration Sensor 2 Circuit Low (Bank 1)	Knock Service	Ranser 2	Potential problem source(s): - Knock sensor is detective or installed incorrectly - Wring heroesa detective	Debrurre via event counter	Engine on     Engine speed above pm none Relative charge fact	<ul> <li>Engine warmed to normal</li> </ul>	NO	0:65437 0:65438 0:65439	Knock sensor is defective or installed incorrectly     Write horsess	Check engine for mechanical defects (chain, crankshaft assembly)     Retual with RCN S5 or higher     Replace knock sensor	lamp: on - US electonic engine power reduction: on - CC message: on	2028	Possible apparent symptoms: Prosible reduction in reven	Breakdown notice:	Norm
								the catalytic converter loses the ability to store sufficient levels of oxygen.		Onboard electrical a voltage between 9 V	stem nd 16					lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s): - Collateral fault stemming from defective caygen		v Temperature conditio - Engine warmed to Temp, above 30 °C Teme condition: - None	c ormal				If faults related to the coypen sensor or mixture adaptation have been logged, repair these first (collateral fault)     Check exhaust system for leaks	- US emissions warning				
MEVD17.2- BN2000	0x3106 12550	Catalytic converier: Efficiency below limit	The diagnostic function monitors the ability of the catalytic converter to store oxygen.	P3420	Catalyst System Efficiency Below Threshold (Bank 1)	Catalyst	Etidency	sensor or mixture adaptation fault - Leak in exhaust system	This fault is logged in the control module's fault memory immediately.	- None Other conditions: none - Engine CN	Engine warmed to normal temperature, more than 80°C     - None	STEUERN_DKAT, STEUERN_ENDE_DKAT, STATUS_DKAT	none Y	Collateral fault stamming from defective corgan sensor or mintus adaptation fault Lask in schaust system     Catalytic converter defective	Check eccased system for seals     If the fault is continuously present or has multiple log entries respond by replacing the catalytic converter	lamp: off - US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: - none	Breakdown notice: - none	- 1009
								the driver circuit diagnostic function.		Voltage condition: - Onboard electrical a voltage between 9 V						Lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s): - Defect in wiring harness between DME and EVAP		V Temperature condition - None Time condition: - None Other conditions:				- Defect in wring harness between DME and		CC message: on     US emissions warning     lamp: off				
MEVD17.2- BN2000	0x3155 12629	Tank vent valve, activation: Short circuit to B+	The diagnostic function monitors the control wire to the EVAP valve for short circuits to positive.	P0459	Evaporative Emission System Purge Control Valve 'A' Circuit High	EVAP System	Valve	Defect in evaporative emissions valve     Defective DME	This fault is logged in the control module's fault memory immediately.	none - Ergine UN	- NOTE - NOTE	STEUERN_TEV, STEUERN_ENDE_TEV	PWM activation signal, 0x4a77 N	EVAP evaporative emissions valve - Defect in evaporative emissions valve - Defective DME	emissions valve and DME - Replace EVAP evaporative emissions valve - Replace DME	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: MIL on, customer proceeds to service facility	Breakdown notice: None	None
								the driver circuit diagnostic function.		Voltage condition: - Onboard electrical a voltage between 9 V :	stem nd 16					lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s): - Defect in wiring harness between DME and EVAP evaporative emissions valve		V Temperature conditio - None	c.			- Defect in wiring harness between DME and	- Check wiring harness between evaporative	- CC message: on     - US emissions warning     lamp: of				
MEVD17.2- BN2000	0x3156 12630	Tank vent valve, activation: Short circuit to earth	The diagnostic function monitors the control wire to the EVAP valve for short circuits to ground.	P0458	Evaporative Emission System Purge Control Valve '&' Circuit Low	EVAP System	Valve	Defect in evaporative emissions valve     Defective DME	This fault is logged in the control module's fault memory immediately.	Time condition: - None Other conditions: none - Engine CN	- None - None	STEUERN_TEV, STEUERN_ENDE_TEV	PWM activation signal, 0x4a77 N	EVAP evaporative emissions valve - Defect in evaporative emissions valve - Defective DME	emissions valve and DME - Replace EVAP evaporative emissions valve - Replace DME	US electronic engine power reduction: off     CC message: none	none	Possible apparent symptoms: MIL on, customer proceeds to service facility	Breakdown notice: None	None
								the driver circuit diagnostic function.		Voltage condition: - Onboard electrical a voltage between 9 V :	stem nd 16					lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Defect in wiring harness between DME and EVAP evaporative emissions valve		V Temperature conditio - None Time condition: - None	c .			- Defect in wiring harmass between DME and	- Check wiring harness between evaporative	- US emissions warning lamp: of				
MEVD17.2- BN2000	0x3157 12631	Tank vent valve, activation: Line disconnection	The diagnostic function monitors the control wire to the EVAP valve for an open circuit.	P0444	Evaporative Emission System Purge Control Valve 'A' Circuit Open	EVAP System	Valve	Defect in evaporative emissions valve     Defective DME	This fault is logged in the control module's fault memory immediately.	none - Ergine CN	- None - None	STEUERN_TEV, STEUERN_ENDE_TEV	PWM activation signal, Dorks77 N	Defect in wiring hamness between DME and EVAP exponsitive emissions valve Defect in evaporative emissions valve - Defective DME	Check wiring harness between evaporative emissions valve and DME     Replace EVAP evaporative emissions valve     Replace DME	US electronic engine power reduction: off     CC message: none	none	Possible apparent symptoms: MIL on, customer proceeds to service facility	Breakdown notice: None	Norm
								there is no drop in the current consumed by the leakage diagnosis pump.		Voltage condition: - Onboard electrical a voltage between 9 V o	stem nd 16					lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s): - EVAP evaporative emissions valve seizes in closed position - Obstruction		V Temperature conditio - None Time condition:	с					- CC message: on     - US emissions warning     lamp: off				
MEVD17.2- BN2000	0x315A 12634	Fuel tank vent valve: jammed open	The diagnostic function monitors the flow through the fael text's EVAP vent line.	P2421	Evaporative Emission System Vent Valve Stack Open	EVAP System	Valve	in path between intake manifold and tank	This fault is logged in the control module's fault memory immediately.	- None Other conditions: none - none	- None - None	START_SYSTEMCHECK	TE note N	EVAP evaporative emissions valve seizes in closed position - Obstruction in path between intake manifold and tank	Replace EVAP evaporative emissions valve     Check flow in lines between intake manifold     and tank	US electronic engine power reduction: off - CC message: none	new for I-11-03-300	Possible apparent symptoms: None	Breakdown notice: None	None
								the diagnostic fault code for the sensor is logged on the PT CAN (OBD services							If diagnostic fault code 'LIN bus communications: signal missing' (nmLINBusBik; 0x2897) is logged, start by					
								ECU (ECU for tank's electronic functions).							repairing this problem, then clear the ECU fault memory, switch on the ignition, then wait at least 1 minute before checking to determine					
								Potential problem source(s): - Global LIN bus fault 'LIN bus communications: signal		Voltage condition: - Onboard electrical a	stern				whether the fault has been logged again - Check pump plug (also for corrosion)	ECE emissions warning lamp: on     ECE electronic engine				
								missing (InmLINbustik; 0x3897) - Defective fune - Defective func - Defective func		voltage between 9 V / V Temperature conditio - None	na 16			Global LIN bas fact TLN bas connervications: aigrad mixing (InnLINBusBit) 0x2807 - Defective face - Defect in the LIN bas wire, ground wire or Terminal 30 wire (open wire, school or ground, abort to LIBas)	Chack powersuppy voltage to intermine 30 / Terminal 31     H no voltage is present, check the fuse - If the fuse is detective, replace it and check power supply for short and open decisits - Check the LIN wire for opens and shorts to Utatis and ground     Portrom totate is if and unreased: If molece	CC message: on				
MEVD17.2-		Tank safety valve shut-off valve, activation:	The diagnostic function monitors electrical		Evaporative Emission System Shutoff Valve 2					None     Time conditions:     Other conditions:						- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000	0x3160 12640	Short circuit to 8+	activation of the tank cutoff value.	P149C	Control Circuit High	EVAP System	Shutoff Valve 2	Contain on plug     the diagnostic fault code for     the sensor is logged on the     PT CAN (OBD services	than 45 sec.	Terminal 15 - none Voltage condition: - Onboard electrical x voltage between 9 V :	- None - None	NO	none N	Electric water pump component fault	EWP electric water pump	- CC massage: none lamp: on - ECE electronic engine power reduction: on - CC massage: on	none	ML comes on	None	Norse
								ECU (ECU for tank electronic functions).		Voisige between 9 V 1 V Temperature conditio - None Time condition:						- US emissions warning				
MEVD17.2- BN2000		Tank safety valve shut-off valve, activation: Short circuit to earth	The diagnostic function monitors electrical activation of the tank cutoff value.	P1408	Evaporative Emission System Shutoff Valve 2	EVAP System	Partiel Velow 7	Potential problem source(s): - Defective wiring harness Tank a shell when	This fault is logged in the control module's fault	Time condition: - None Other conditions: Tassing 19		800		- Delective wintig harness	Check wiring harmess at TFE1 ECU and tank cutoff valve     Replace tank cutoff valve	Lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice: None	
54000	0.0101 12041	Circle Cricker of Balan	accession of the lank could value.	PHU	Control Circuit Low	Live Spann	UNICE VIEW 2	Tank cutoff valve the disgnostic fault code for the sensor is logged on the PT CAN (OED services message) from the TFE1 ECU (ECU for tank choices feetimes)	interiory introducity.	Voltage condition: - Onboard electrical x voltage between 9 V	stern			- Tank cutoff valve defective	· ropping talk court save	CC message: none     Iamp: on     ECE electronic engine     power reduction: on     CC message: on	1008	ML comes on	10.0	PRATE
								massige) from the TFE1 ECU (ECU for tank electronic functions).		V Temperature conditio						- US emissions warning				
MEVD17.2-	0x3162 12542	Tank safety valve shut-off valve, activation: Line disconnection	The diagnostic function monitors electrical activation of the tank cutoff value.	P140A	Evaporative Emission System Shutoff Valve 2 Control Circuit	EVAP System	Shutoff Valve 2	Potential problem source(s): - Defective wiring harness - Tank cutoff valve	This fault is logged in the control module's fault memory immediately	Time condition: - None Other conditions: - Terminel 15	None None	NO	www. N	- Defective wiring harmess - Tank cutoff valve defective	Check wiring harmess at TFE1 ECU and tank cutoff valve     Replace tank cutoff valve	lamp: off - US electronic engine power reduction: off - CC message: none	2028	Possible apparent symptoms: ML comes on	Breakdown notice: None	Norm
																lamp: on - ECE electronic engine power reduction: on				
										Voltage condition: Temperature conditio						CC message: on     US emissions warning     lamp: off				
MEVD17.2- BN2000	0x3163 12643	Tank safety valve shut-off valve: jammed open		P142D	Evaporative Emission System Shutoff Valve 2 Stuck Off	EVAP System	Shutoff Valve 2	Potential problem source(x) - none	If the fault 7, then it is logged.	Time condition: none Other conditions:			- None	- None	- None	US electronic engine power reduction: off     CC message: none	new for I-10-03-450, diagnosis is currently in preparation.	Possible apparent symptoms: Customer perception in prose at this juncture	Breakdown notice:	
																lamp: on - ECE electronic engine power reduction: on - CC message: on				
								The fault is recognized when 7		Voltage condition: Temperature conditio						- CC message: on     - US emissions warning     lamp: of				
MEVD17.2- BN2000	0x3164 12644	Tank safety valve: mathanction	Open	P3440	Europrative Emission System	EVAP System	Flow Check	Potential problem source(x): - 7 - 7	If the fault 7, then it is logged.	Time condition: none Other conditions.			- Norm	.1	-7 -7	- CC message: none	new for I-10-03-450, diagnosis is currently in preparation.	Possible apparent symptoms: Customer perception in prose at this juncture	Breakdown notice:	
								there is no drop in the current consumed by the leakage diagnosis pump.		- Onboard electrical a voltage between 9 V V Temperature conditio						lamp: on - ECE electronic engine power reduction: on - CC message: on				
								Potential problem source(s): - Tank EVAP evaporative emissions valve sticks in closed position		- Engine warmed to r temp, above 80 °C Time condition: - None	ormal			- Tank evaporative emissions valve seizes in closed position		- US emissions warning lamp: off				
MEVD17.2- BN2000	0x3165 12545	Tank safety valve: malhanction	The diagnostic function monitors the flow through the fuel tank's EVAP vent line.	P0440	Evaporative Emission System	EVAP System	Flow Check	- Obstruction in line between tank and intake manifold	The diagnostic fault code is logged once the fault appears four times.	none - Engine ON	temperature, more than 80°C - None	START_SYSTEMCHECK	TE none N	closed position - Obstruction in line between tank and inteloe manifold	Replace EVAP evaporative emissions valve     Check flow in line between intake manifold and     tank and replace as indicated	reduction: of - CC message: none	Data content defined	Possible apparent symptoms: None	Breakdown notice: None	None
								The fault is recognized when the output signal from the tank fuel-level sensor		Voltage condition: - Onboard electrical a voltage between 9 V o V						lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the bank fuel- level sensor for a valid output signal within					exceeds a specified level. Potential problem source(x):	The diagnostic fault code is	Temperature conditio - None Time condition:	c.					- US emissions warning lamp: off				With the JPE Terminal 15 is adequate to blocer
MEVD17.2- BN2000	0x3183 12675	Fuel level sensor, right, signal: Short circuit to B+	specified limits. The fault is first stored in the junction box electronics and then relayed to the DME.	P2068	Fuel Level Sensor 'B' Circuit High	Fuel Level Sensor	Electrical	Open electrical circuit to fuel-level sensor on right (looking toward front)	logged when the fault remains present for longer than 3 min.	None     Other conditions:     Engine ON     Voltage condition:	- None - None	Yes + JBB/FE raw values t tank fuel level	r none N	Open electrical circuit to fuel-level sensor on right (boking toward front)	Read out and work through diagnostic fault codes in instrument cluster and in junction box	US electronic engine power reduction: off     CC message: none lamp: off	none	Possible apparent symptoms: Possible problem with fuel gauge display in i- cluster	Breakdown notice: None	With the JPE Terminal 15 is adequate to trigger entry of a fault code, with the DME the engine must also be running.
								The fault is recognized when the output signal from the tank fuel-level sensor is below a specified level.		Voltage condition: - Onboard electrical x voltage between 9 V x V	ntern nd 16					lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the tank fuel- level sensor for a valid output signal within specified limits. The fault is first stored in the					Potential problem source(s):	The diagnostic fault code is logged when the fault remains present for longer	V Temperature condition - None Time condition: - None Other conditions:						- US emissions warning lamp: off		Possible apparent symptoms: Possible problem with fuel gauge display in i-		With the JPE Terminal 15 is adequate to higger entry of a fault code, with the DME the engine
MEVD17.2- BN2000	0x3154 12575	Fuel level sensor, right, signal: Short circuit to earth	junction box electronics and then relayed to the DME.	P2067	Fuel Level Sensor 'B' Circuit Low	Fuel Level Sensor	Electrical	Open electrical circuit to fuel-level sensor on right (looking toward front) the right-side fuel-level	nemaina present for longer than 3 min.	Voltage condition:	- NEDE - NEDE	Yes + J207E raw values t tank fuel level	r none N	Open electrical circuit to fuel-level sensor on right (booking toward front)	Read out and work through diagnostic fault codes in instrument cluster and in junction box	US electronic engine power reduction: off CC message: none lamp: off	none	Possible problem with fuel gauge display in I- cluster	Breakdown notice: None	entry of a fault code, with the DME the engine must also be running.
								sensor transmits correct data, but the processed fuel level is too high to be plausible.		Onboard electrical a voltage between 9 V a V     Temperature conditio	nem nd 96					ECE electronic engine power reduction: off - CC message: none				
		Fuel level sensor, right, signal: CAN value	The diagnostic function monitors the message on the CAN bus to assess the plausibility of the fuel level indicated by the right-side fuel-level					Potential problem source(s): - Problem with CAN	The diagnostic fault code is logged when the fault remains present for longer	Temperature condition - None Time condition: - None Other conditions:				Problem with CAN communications between	. Read not and much through the set	US emissions warning lamp: off     US electronic engine power reduction: off		Possible apparent symptoms: Possible problem with fuel gauge daplay in I-	Breakdown notice: Tank may be empty. Please refuel using fuel capitals and services to seaved survive station	
MEVD17.2- BN2000	0x3185 12677	Puel level sensor, right, signal: CAN value implausible	fuel level indicated by the right-side fuel-level asrsiot.	P1408	Fuel Level Signal 2	Fuel Level Sensor	Signal	communications between instrument cluster, junction The fault is recognized when the output signal from the tank fael-level sensor	than 3 min.	Terminal 15 - none Voltage condition: - Onbeard electrical s voltage between 9 V r	- None - None	NO	none Y	instrument cluster, junction box and DME	Read out and work through diagnostic tault codes in instrument cluster and in junction box	<ul> <li>CC message: none</li> </ul>	none	Possible problem with fuel gauge daplay in I- cluster	canisher and proceed to marent service station. Then proceed to BMW Service facility.	None
			-					exceeds a specned level.								lamp: of - ECE electronic angine power reduction: off - CC message: none - US emissions warning				
MEVD17.2-			The diagnostic function monitors the tank fuel- level sensor for a valid subput signal within apecided limits. The fault is first stored in the junction box electronics and then relayed to the					Potential problem source(s): - Defective wiring harness - Tank fuel-level sensor on left (looking toward front) is	This fault is logged in the ECU fault memory if it remains present for longer	Temperature condition - None Time condition: - None Other conditions:		Yes + JBBFE raw values !		- Defective wiring harness - Tank fusi-level sensor on left (looking toward	- Read out and work through diagnostic fault	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: Possible problem with fuel gauge display in I-	Breakdown notice:	With the JPE Terminal 15 is adequate to trigger entry of a fault code, with the DME the engine
5N2000	0x3187 12679	Fuel level sensor, left, signal: Short circuit to B+	DME.	P0463	Fuel Level Sensor 'A' Circuit High	Pael Level Senace	Electrical	defective The facilitie recommined when	Pan 3 sec.	Voltage condition: - Onboard electrical a	- Norm - Norm	tank faal level	none N	front) is defective	codes in instrument cluster and in junction box	- CC message: none lamp: off	none	chatter	Norm	must also be running.
			The diagnostic function muniters the task to a					the output signal from the tank fuel-level sensor is below a specified level. Potential problem source(s):		voltage between 9 V	nd 16					power reduction: off - CC message: none				
MEVD17.2-		Fuel level sensor, left, signal: Short circuit to	The diagnostic function monitors the tank fuel- level sensor for a valid output signal within specified limits. The fault is first stored in the junction box electronics and then relayed to the					Potential problem source(s): - Defective wiring harness - Tank fuel-level sensor on left (looking toward front) is	The diagnostic fault code is logged when the fault remains present for longer	V Temperature condition - None Time condition: - None Other conditions:		Yes + J207°E raw values t	*	- Defective wiring harness - Tank fael-level sensor on left (looking toward	- Read out and work through diagnostic fault	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: Possible problem with fuel gauge display in I-	Breakdown notice:	With the JPE Terminal 15 is adequate to trigger entry of a fault code, with the DME the engine
BN2000	0x3188 12580	earth	DME.	P0462	Fuel Level Sensor 'X' Orouit Low	Fuel Level Sensor	Electrical	defective the left-side fuel-level sensor	than 3 min.	none - Ergine CN Voltage condition: - Onboard electrical s voltage between 9 V :	- NOR8 - NOR8	tank fael level	none N	front) is defective	codes in instrument cluster and in junction box	- CC message: none lamp: off - ECE electronic engine power reduction: off - CC message: none	none	cluster	New	must also be running.
								transmits conect data, but the processed fuel level is too high to be plausible. Potential problem source(s):		voltage between 9 V / V Temperature condition - None Time condition:						- US emissions warning				
MEVD17.2-	0-31F	Fuel level sensor, left, signal: CAN value	The diagnostic function monitors the massage on the CAN bus to assess the plausibility of the fael level indicated by the left-side harl-level			Real Provide Land		Problem with CAN communications between	The diagnostic fault code is logged when the fault remains present for longer	- None Other conditions:				Problem with CAN communications between instantian device burging has and PME	- Read out and work through diagnostic fault	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: Possible problem with fuel gauge display in i-	Breakdown notice: Tank may be empty. Please refuel using fuel cantater and proceed to nearest service station. Then accessed to BBM/ Service facility	
BN2000	- ukanaA 12582	implausble	BEFRIOT.	P1407	Fuel Level Signal 1	Fuel Level Sensor	Signal	the tank of the second	than 3 min.	Terminal 15 - none - Onboard electrical a voltage between 9 V o V	i - None - None	NO	Indiae Y	instrument cluster, junction box and DME	codes in instrument cluster and in junction box	- CC message: none	none	cluster	Then proceed to BMW Service facility.	Norm
								starkly from the actual gauge reading appearing in the instrument cluster.		V Temperature conditio - None Time condition:	с —					- ECE emissions warning				
								Potential problem source(s): - Fuel level sensor sticking - Fuel level sensor		- None Other conditions: - Engine on - No fault related to be	k faal-					tamp: off - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the drop in the					Poel evel serior sticking     - Puel level serior sticking     - Puel level serior sticking     - Puel level serior     mechanically damaged     Poequent refueling with     mention of late them F	The diagnostic fault code is logged the first time (pending FC) and then confirmed the second time (confirmed fault	Temperature confide - None These confidence - Diverse confidence - Diverse confidence - Register on - No fast multiple of Reveil sensors in current present - All all so contented in multiple confidence - All all so contented in - All all so contented i	V al			Fuel level sensor sticking     Fuel level sensor machanically damaged     Float on fuel level sensor is damaged		- US emissions warning lamp: off		Possible apparent symptoms:	Breakdown notice: Tank may be empty. Please refuel using fuel	
MEVD17.2- BN2000	0x318D 12585	Fuel level sensor: Deviation between consumption and fil-level change	The diagnostic function monitors the drop in the tank's fuel level and compares it to the quantity of fuel injected into the engine during the same period.	P1448	Fuel Level / Fuel Consumption Correlation	Fuel Level	Correlation	Frequent refueling with quantities of less then 5 liters (as with rental vehicles)	FC) and then confirmed the second time (confirmed fault code).	none possible) Voltage condition:	na - None - None	NO	none Y	- Float on hall level server is damaged     - Frequent refueling with quantities of less than     5 liters (as with rental vehicles)	Read out instrument cluster ECU fault memory and work through logged faults	US electronic engine power reduction: off CC message: none	none	Possible apparent symptoms: - Fuel gauge tails to read full after rehailing. - Tark is empty although gauge indicates that fuel is still present.	Tank may be empty. Please refuel using fuel cariater and proceed to nearest service station. Then proceed to BMW Service facility.	Norm
								The fault is recognized when a short circuit is present between the DME and the		- Onboard electrical a voltage between 9 V :						lamp: off - ECE electronic engine power reduction: off - CC message: none				
								electric fan.	This fault is logged in the	Temperature condition - None Time condition: - None	к	Yes+ STEUERN E LUEFTER.			Check wiring harness     Check electric fan (specified resistance betreen PWM pin and Terminal 30 pin with electric fan plug disconnected: greater than 10	US emissions warning lamp: off     US electronic engine power reduction: off		Possible arranged sur-	Rendelevan	
MEVD17.2- BN2000	0x31E7 12775	Electric fan. actuation: Short circuit to B+	The diagnostic function monitors the wire between the electric fan and the DME.	P0602	Fan 1 Control Circuit High	Coolina System	fan 1	Potential problem source(s):     Defective wiring harness     Electric fan defective	This fault is logged in the control module's fault memory immediately.	- None Other conditions: none - Engine ON	- None - None	STEUDIN, E LUEFTER, STEUERN, ENDE_E_LUI ER, STATUS E LUEFTE	FT PWM activation signal 0x4A79 N	Defect in wiring harness     Electric fan defective	electric fan plug disconnected: greater than 10 ohma) - Replace electric fan	reduction: off - CC message: none	An inoperative electric fan can also cause the ensine to overheat.	Possible apparent symptoms: Engine can overheat, breakdown in extreme clases	Breakdown notice: Probably not possible to activate electric fan, continued driving at reduced power possible.	none

								Voltage condition:			large off			
						The fault is recognized when a short circuit is present between the DME and the		- Onbound electrical system voltage between 9 V and 16 V			Check wing harness     Check wing harness     Check wing harness     Check wing harness     Check wind harness			
						electric fan. Potential problem source(s):	The diagnostic fault code is	Tempanature condition: - None Time condition: - None	Yes + STEUERN, E_LUEFTER,		Chack electric tan (specified resistance     US emissions warring     between PWM pin and Terminal 30 pin with     large: cfl     electric tan pig disconnected: creater than 10     US electronic engine power	Possible apparent symptoms:	Breakdown notice:	
MEVD17.2- BN2000 0x31E8 12776 Electric fan, actuation: Short circuit to earth	The diagnostic function monitors the wire between the electric fan and the DME.	P0591	Fan 1 Control Orcuit Low	Cooling System	Fan 1	Defective wiring hamess     Electric fan defective	logged when the fault remains present for longer than 1 min.	Other conditions: - Engine ON - None - None	STEUERN, E_LUEFTER, STEUERN, ENDE_E_LUEFT ER, STATUS_E_LUEFTER 0x4A79 N	Defect in wiring harness     Electric fan defective	ohms) reduction: off An inoperative electric fan can also cause the - Replace electric fan - CC message: none engine to overheat.	Engine can overheat, breakdown in extreme Probably	preaktown notice: not possible to activate electric fan, ad driving at reduced power possible.	none
						The first is successived ober		Voltage condition: - Onboard electrical system voltage between 5 V and 15			lamp: off - ECE electronic engine			
						the electric fan has no power supply. Potential problem source(s):		V Temperature conditor: - None			Chuck wining harmass     Chuck wining in an and a second sec			
MEVD17.2-	The diagnostic function monitors the wire					Defect in wiring harness     Outoff relay for electric fan     defective	This fault is logged in the control module's fault	Time condition: - None Other conditions:	Yes + STEUERN_E_LUEFTER, STEUERN_ENDE_E_LUEFT   PVM activation signal	Defect in wiring harmens     Cutoff relay for electric fan defective	Oracle wing homes     Oracle wing homes	Possible apparent symptoms: Engine can overheat, breakdown in extreme Probably	Breakdown notice: not possible to activate electric fan,	
BN2000 0x31E9 12777 Electric fan. actuation: Line disconnection	between the electric fan and the DME.	P0480	Fan 1 Control Circuit	Cooling System	Fac 1	Electric fan defective	memory immediately.	none - Engine CN - None - None	ER, STATUS, E, LUEFTER 004A79 N	Electric fan defective	Replace electric fan     - CC message: none     engine to overheat.	cistes contrast	ed driving at reduced power possible.	none
											Standi Cocco Mandini di monimi el l'uni i forni al rigordi sono ligitari la la -fina i tranglazzi ante ligitari la -fina tranglazzi ante ligitari la la suno 35,4 c. e.			
						The fault is recognized when unit fails to reach the		Voltage condition: - Chiboard electrical system voltage between 9 V and 16			The stand and states and a state of a s			
						specified rotation rate within the specified period.		voltage between 5 V and 15 V Temperature condition:			warms to normal temperature (above 80 °C), power reduction: off read out diagnostic fault codes from ECU; if - CC message: none			
						Potential problem source(s): - Fan shows resistance to rotation	This fault is logged in the	- None Chine condition: - None	Yes,		read out diagnostic fault codes from ECU; if lamp: off			
MEVD17.2- BN2000 0x31EA 12778 hardware fault MEVD17.2-	The diagnostic function monitors operation of the electric fan.		Evaporative Emission System Switching Valve			Electric fan is defective     (electronics)	control module's fault memory immediately.	- None - None - None - None	0x2FE0DA03_STELEFIN_E_ LUEFTER_RAdvals electric ter? Increa	Fan shows resistance to rotation     Electric fan is defective (electronics)	tan fault is spein present: Replace fan - If no sew diagroutic fault code has been in no sew diagroutic fault code has been enteurd: Tear CK - CC massage: norse to overhaat.	Possible apparent symptoms: None	Breakdown notice: None	nore
		P2420	Control Circuit High Evaporative Emission System Switching Valve	EVAP System	Switching Valve									
MEV017.2- BN2000 0:4221A 12826 MEV017.2- BN2000 0:421B 12827 MEV017.2-		P2419 P2418	Control Circuit Low Evaporative Ernission System Switching Valve Control Circuit/Open Evaporative Ernission System Leak Detected	EVAP System EVAP System	Switching Valve Switching Valve									
BN2000 0x321C 12828		P0442 P0455	(small leak) Evaporative Emission System Leak Detected	EVAP System	Leak Detection									
MEVUIT.2- BA2000 0+321D 12829 MEVDT72- BA2000 0+321E 12830 MEVDT72-		P1442	(very small leak) Disgnostic Module Tank Leakage (DM-TL) Pump Current Too High Disgnostic Module Tank Leakage (DM-TL) Pump	EVAP System EVAP System	Leak Detection Pump Current									
MEV017.2- BN2000 0x321F 12831 MEV017.2- BN2000 0x3220 12832 MEV017.2-		P1445 P1434	Current Too Low	EVAP System EVAP System	Pump Current Pump Current	-								
BN2000 0x3221 12833		P1447	Disgroatic Module Tank Leakage (DM-TL) Disgroatic Module Tank Leakage (DM-TL) Pump Current Too High during Switching Solanoid Test Evaporative Emasion System Leak Detection	EVAP System	Pump Current									
NEVD17.2- Bi02000 0x3222 12834 MEVD17.2- Bi02000 0x3223 12835 MEVD17.2-		P2400 P2408	Pump Heater Control Circuit High Evaporative Emission System Leak Detection Pump Heater Control Circuit Low Evaporative Emission System Leak Detection	EVAP System EVAP System	DMTL Heater									
		P240A	Pump Heater Control Circuit/Open Evaporative Emission System Leak Detection	EVAP System	DMTL Heater									
MEUDITZ- BRODO 0-0225 12837 MEUDITZ- BRODO 0-0225 12838 MEUDITZ- 10000 0-0225 12838		P2402 P2401	Parep Control Circuit High Evaporative Emission System Leak Detection Pump Control Circuit Low Evaporative Emission System Leak Detection	EVAP System EVAP System	Ратр									
MEVD17.2- BK42000 0x3227 12839 MEVD17.2- BK42000 0x3228 12840		P2400	Pump Control Circuit/Open Evaporative Emission System Attemurning	EVAP System	Pump		+							
anal 1290		P143F	Diagnosia	EVAP System	Leak Detection		1	Onboard electrical system     voltage between 9 V and 16			- ECE entastors warring Larp; off     - ECE decisionic engine			
								V Temperature conditor: - None Time condition:			ECE electronic englise     power reduction: off     - CC massage: none			
						The fault is registered when a message error is present.	The diagnostic fault code is	Time condition: • None Other conditions: • Engine of			- US emissions warning large: off			
MEVD17.2- BN2000 0x32AB 12971 EVIS-DME message incorrect Frame error	The diagnostic function monitors communications on the CAN bus to assess electronic immobilizer messages.	U1165	Message Monitoring EWS (Electronic Immobilizer) - Frame Error			Potential problem source(s): - Defective CAS - Defective DME	logged when the fault remains present for longer than 3 min.	Engine all     Vahide key recognized and     none wall to the duration of the - None - None	NO CAN bus teleprama ita	- Defective CAS - Defective DME	- US electronic engine power     - Replace CAS reduction: of     - Replace DME - CC missings: none none	Possible apparent symptoms: In wost case the starter tams but the engine fails to start	Breakdown notice: None	None
								Voltage condition:			Logical Lots     Logical Lots     Logical     Log			
						The fault is recognized when one peripheral wheelspeed is too high.								
	The diagnostic function monitors the signals					Potential problem source(s):	This fault is logged in the control module's fault	Temperature condition: - Nane Time condition: - Nane Other conditions:			- US analisins warning lamp: off - US alconnic angles power			
MEVD17.3- BN2000 0x32CB 13000 Poor-road-surface detection: Wheel speed too high	from the wheelspeed sensors to determine if they are valid.	P1518	Rough Road Detection Wheel Speed Too High			- Vehicle speed signal implausible	control module's fault memory immediately.	none Ergins ON - None - None	NO rone N	Vehicle speed signal implausible	reduction: off - Continue fault diagnosis with DSC - CC message: none none	Possible apparent symptoms: None	Breakdown notice: None	None
						The fault is recognized when		Vollage condition: - Onboard electrical system vollage between 9 V and 16 V			large, eff     - CEC addictories engine     power reduction: eff     - CE message: norw			
						the message is not received in the specified time.		0 Temperature condition: - None Time condition:			UC massage: norm - US emissions warring large: of			
	The diagnostic function monitors reception of					Potential problem source(x): - Signal error from at least	This fault is logged in the control module's fault	Time condition: - None Other conditions:		- Signal error from at least one wheelspeed	- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x22C2 12001 signal motivad	the message.	PISIZ	Poligh Polici Lettectori No vinesi Spisol Signa			cos unsempleio sensor	memory immediately.	nane - Eigine CN - None - None - None Voltage anotation: - Orbitand electrical system	100 IN	Million .	Controue fault diagnosis with DSC     CC message: none     none	Nore	Norm	DEDR
								vollage between 9 V and 16 V Temperature condition: - None						
								Time ornation: - Time after start greater			- ECE emissions warning large: eff     - ECE electronic engine			
						The diagnostic fault code is logged in the ECU fault memory when the speed deviates by more than 35 km/h.		Pana 45 sac. Other constitions: - Englas on - Dinking - No pressure on accelerator			ECE allectoric angles     powerneductor of     Cormessage: none			
								Driving     No pressure on socialization     pedul			- US emissions warring temp: off			
MEVD17.2- BN2000 0x20CC 13004 has sent signal of invalidity	The diagnostic function determines whether the vehicle speed from the instrument cluster is plausible.					Potential problem source(x): - I-cluster transmits "invalid" signal	This fault is logged in the control module's fault memory immediately.	pedul - Brakas not on - No active closed-loop DSC none dparation - None dhan, 45 acc.	rt greader NO none N	- I-cluster transmits "invalid" signal	- US electronic engine power     - Continue fault diagnosis in the instrument     dualities and in the DSC     - Corr message: none     none	Possible apparent symptoms: Cruise control talls to operate	Breakdown notice: None	Norm
								none operation - None than 45 asc. Voltage condition: - Orboard electrical system voltage between 9 V and 16						
						The diagnostic fault code is logged in the ECU fault		Time condition: Time after start greater			- ECE emissions warring large: off			
						The diagnostic fault code is logged in the ECU fault memory when the speed deviates by more than 35 km/h.		Targenaine condition - Hone There conditions - Read-Balance - Read-Balance			ECE enlances woning hamp off     ECE electronic engine power wondows: off     Coremanyee, now			
						Potential problem source(s): - Speed signal transmitted by		Ohing     No pressure on accelerator     profil     Programmer of on     Provide closed Poop DBC     The since atar     The since atar			- US emissions warning lamp: off			
MEVD17.2- BN2000 0x22CD 13005 dapaged, plausibility: CSC signal implausible in relation to instrument-cluster display	The diagnostic function determines whether the vehicle speed from the instrument cluster is plausible.					instrument cluster displays excessive deviation from DSC speed signal	This fault is logged in the control module's fault memory immediately.	Baskes not on     No active closed-loop DSC     none     operation     rone	rt greater NO none N	Speed signal transmitted by instrument cluster displays excessive deviation from DSC speed signal	- Continue fault diagnosis in the instrument     cluster and in the DSC     - CC message: none     none	Possible apparent symptoms: Cruise control fails to operate	Breakdown notice: None	Norm
								Voltage condition: - Onboard electrical system voltage between 9 V and 16			- ECE envisations warning larvey: cit - ECE electronic engine power reduction: cit			
						None		V Temperature condition: - None			power reduction: dff - CC message: none MY11 UB:			
							This fault is logged in the control module's fault	Time condition: - None Other conditions: - Vehicle speed in excess of			- US emissions warning lamp: on			
MEVD17.2- BN2000 0x30200 13008 Vehide speed: Signal too high	The diagnostic function determines whether the append signal is within a plausible range.	P0503	Vehicle Speed Sensor 'A' InternitientErratioHigh	Vehicle Speed Sensor	Electrical	Potential problem source(s): - Speed signal too high (possible tampering)	control module's fault memory immediately.	Vehicle speed in excess of     Abruh     Obcore     Obcore     Obcore     Obcore	NC NO N	- Speed signal too high (possible tempering)	- US electronic singles power     reaction: of     - Contribut fault diagnosis with DSC - CC message: on     - CC message: on     - CC message: on	Possible apparent symptoms: None	Breakdown notice: None	Norm
						The fault is servicined when		voltage between 9 V and 16 V Temperature condition:			- Lotting and appendix bits column and appendix and appendix			
						The fault is recognized when the vehicle speed deviates from the calculated vehicle speed.		- Engine warmed to normal temp, above 80 °C Time condition:			- CC massage: none MY11 US: - US emission warring			
MEVD17.2- Vehicle speed, plausbilly: Minimum speed	The diagnostic function monitors the plausibility		Vehicle Speed Sensor, Speed Too Low			Potential problem source(s): - Vehicle speed signal	This fault is logged in the control module's fault	None     None     Other conditions:     - Engine speed above 1800     - Engine wasmed to normal			lamp: on - US electoric engine power reduction:	Possible apparent symptoms:	Breakdown notice:	
BN2000 Gr2228 12016 under load not reached	of the speed signal.	P152A	Compared to Reference under Load	Vehicle Speed Sensor	Plausbilty	implausible	memory immediately.	none (50n) temperature, more than 80°C - None - Orboard electrical system voltage between 9 V and 56	NO NO N	- Vehicle apeed signal impleusible	- CErelinae fault diagnosis with DSC     - CE message: on none     MY10 ECE:	Note	None	None
								V						
						The fault is recognized when the vehicle speed deviates from the calculated vehicle		Temperature condition: - Engine warms for normal temps, above 80 °C Teme conditions: - None Other conditions:			- Comessage: none https://www.comessage: none			
	The descentic business in					speed.	This factor is a second	- Engine ON			Comessage: none     MY11US:     US:     US:     Instance: working     kamp: co     If Warther exchange:			
MEVD17.2- BN2000 0x32D9 13017 coast mode not reached	The diagnostic function monitors the plausibility of the speed signal while the overrun cutoff is active.	P152B	Vehicle Speed Sensor, Speed Too Low Compared to Reference in Coast Down	Vehicle Speed Sensor	Plausibility	Potential problem source(s): - Vehicle speed signal implausible	This fault is logged in the control module's fault memory immediately.	- Insuing Intromevolution     between 4520 rpm and 1520 - Engine seamed to normal     pm     temperature, more than 80°C - None	NO NO N	- Vehicle speed signal implausible	Continue feel diamonia with DSC     Conserver, on prove	Possible apparent symptoms: None	Breakdown notice: None	None
								- Oxboard electrical system     voltage between \$ V and 16     V			- CC environmenting karp of - CCC electronic engine power reduction: of - CC manage: none MY11 US			
						The fault is recognized when the vehicle speed deviates from the calculated vehicle		Impendence conditions - Engine warmen do normal array, alcow 80 °C Three conditions - Norma COher conditions			power reduction: off - CC message: none MY11 US:			
	The diagnostic function monitors the difference					speed. Potential problem source(s):		Time condition: - None Other conditions:			- US emanors warring later: on - US electronic engine power			
MEVD17.2- BN2000 0x32DA 13018 read-pased signal	in signals from the left and right wheelspeed sensors.	P0501	Vehicle Speed Serace 'A' Range/Performance	Vehicle Speed Sensor	Plausibility	Vehicle speed signal     implausible	memory immediately.	none pm temperature, more than 80°C - None	NO NO N	- Vehicle speed signal implausible	reduction: off     - Continue fault diagnosis with DSC     - CC massage: on     none	Possible apparent symptoms: None	Breakdown notice: None	None
						The fault is recognized when the signal from one wheelspeed sensor varies		Orbicard electrical system     voltage between S V and 16     V     voltage between S V and 16     V			lamp: off - CEC discloration engine power reduction: off - CE maxaage: nome			
						the signal from one wheelspeed sensor varies from that of the other sensors during stable vehicle operating conditions.		- vemperature condition: - None Time condition:			- CC massage: none - US emissions warring large; off			
MEVD17.2- Vehicle speed, rear left wheel sensor,	The diagnostic function monitors the signals		Wheel Speed Sensor RearLeft			Potential problem source(s): - Vehicle speed signal	This fault is logged in the control module's fault	Temperature condition: -None Firms condition: -None Other conditions: -Valida grand on escan of -Valida grand on escan of			- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x32DC 13020 plauability: Signal implauable	from the wheelspeed sensors for plausibility.	P15DC	Range/Performance	Wheel Speed Seracr	Plausibility	implausible	memory immediately.	none 4 km/h - None	NO NO Y	- Vehicle speed signal implausible	Continue fault diagnosis with DSC     CC message: none     none	Driver assistance systems failed	None	Nons
						The fault is recognized when the signal from one wheelspeed sensor varies from that of the other sensors during stable vehicle		Votage dereven V V and to V Temperature condition: • None Time condition:			Entry off - ECE electorist engine poer reduction: off - CC message: none			
						operating conditions.	This fact is lower to the	- NONE Time condition: - None Other conditions: - Vehr conditions: - Vehr conditions:			- US emissions werning lawgr: eff     - US electronic engine power			
MEVD17.2- BN2000 0x32DD 13021 physiolity: Signal implexible	The diagnostic function monitors the signals from the wheelspeed sensors for plausibility.	PISDA	Wheel Speed Sensor FrontLeft Range/Performance	Wheel Speed Sensor	Plaubilty	- Vehicle speed signal implausible	This fault is logged in the control module's fault memory immediately.	name 4 km/h - None - None	NO NO Y	Vehicle speed signal implausible	- Continue fault diagnosis with DSC     - CC message: none     none	Possible apparent symptoms: Driver assistance systems failed	Breakdown notice: None	Norm
						The fault is recognized when the signal from one wheelspeed sensor varies from that of the other sensors during stable vehicle meeting exections and the		Orboard electrical system     voltage between 9 V and 16     V			barry of - CCE electronic engine poser version endicion; eff - CCE message: none			
						from that of the other sensors during stable vehicle operating conditions.		Temparature condition: - None Time condition: - None			- CC massage: none     - US emakanes warring     larg::df			
MEVD17.2- Vehicle speed, rear right wheel sensor,	The diagnostic function monitors the signals		Wheel Speed Sensor Rear/Right			Potential problem source(s): - Vehicle speed signal	This fault is logged in the control module's fault	Other conditions: - Vehicle speed in excess of			- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x32DE 13022 phusibility. Signal implausible	from the wheelspeed sensors for plausibility.	PISDD	RangePerformance	Wheel Speed Sensor	Plausbilty	In the fault is recognized when the signal from one	memory immediately.	none 4 Jam/h - None - None - None - Onboard alactical system voltage between 9 V and 95	ND NO Y	Vehicle speed signal implausible	Continue fault diagnosis with DSC     CC massage: none     Inone     Inone     Inone     Inone     CCE discontine regime	Driver assistance systems failed	None	None
						wheelspeed sensor varies from that of the other		v			power reduction: off - CC message: none			
						sensors during stable vehicle operating conditions.	This fact is lower to the	Terripontular condisor.  None Tere condisor.  None None None Verbia speed in sccas at rope 4 kmh None None None None None None None None			- US entrations warning large: eff     - US electronic ergans sover			
MEVD 17.2- BN2000 0x32DF 13023 plausibility: Signal implausible	The diagnostic function monitors the signals from the wheelspeed sensors for plausibility.	P1508	Wheel Speed Senaor Front/Right Range/Performance	Wheel Speed Seraor	Plausbilty	Potential problem source(x): - Vehicle speed signal implausible	This fault is logged in the control module's fault memory immediately.		NO NO Y	- Vehicle speed signal implausible	- US skotnosi engine power     - diskotnosi engine power     - decimina fault diagnosis with DSC     - Corressage: none     - corressage: none     - corressage: none	Possible apparent symptoms: Driver assistance systems failed	Breakdown notice: None	None
								Voltage condition: - Onboard electrical system voltage between 3 V and 16			- CCL directorie contra - CCL directorie contra power reduction: off - CC mexange: norm			
						The fault is recognized when no start value has been		V Temperature condition: - None			- US emissions warring factory:			
MEVD17.2- EWS tempering protection: no start value	The diagnostic function determines whether a		EWS (Electronic Immobilizer) Start Value not yet			programmed. Potential problem source(s):	This fault is logged in the control module's fault	V Tempenature condition: - None Time condition: - None Chef condition:			lamp: df The EVWS electronic investigate code is write - US electronic engine power to the DME ECU on the production line, or, wh reductions of the latter is supplied as spare part, prior to shipme	t Possible apparent symptoms:	Breakdown notice:	
BN2000 0x32E1 13025 programmed	abart value is programmed.	P1657	Programmed			- No start value programmed	memory immediately.	Onboard electrical system	NO nose N	- No start value programmed	OME defective     CC message: none     from the Dirgolling plant	None, as this fault occurs only on new units	Nerse	None
						The fault is recognized when		vollage between 9 V and 16 V Temperature condition:			- CC message: none			
						The fault is recognized when the start values of CAS and DME do not agree.	The Is a 1	Temperature condisor None Trans condisor None Contract Condition: - None Contract Set - Valida key recognized and - Valida key recognized and - Some			US emissions warring large: off New control modules can only be synchronize			
MEVD17.2- BN2000 0x32E2 13026 EWS tampering protection: expected response implexable	The diagnostic function determines whether a abart value is programmed.	P16CF	EWS (Electronic Immobilizer) Implausible Response			Potential problem source(s): - Defective CAS - Defective DME	This fault is logged in the control module's fault memory immediately.	Other conditions: - Vehicle key recognized and Terminal 15 valid - None - None	NO more N	- Defective CAS - Defective DME	- US electronic ergine power     - Replace CAS     - Replace DAS     - Replace DME     - CC message: none     incorrect positional	Possible apparent symptoms: Starter turns, engine fails to start	Breakdown notice: None	None

									- Onboard electrical system voltage between 9 V and 15 V							- ECE emissions warring barp: off     - ECE electronic engine power reduction: off     - CC message: none				
						The fault is registered when a message error is present.		1	Temperature condition: - None Time condition: - None											
MENDIXA			The diagnostic function monitors the electronic	EWS (Electronic Immobilizer) Interface to ECM,		Potential problem source(s): - Defective setting harmess - Defective CAS	This fault is logged in the control module's fault		- None Other conditions: - Engine off - Vehicle key recognized and					- Defective wiring harmess - Defective CAS	- Check wiring harmess between CAS and DM - Replace CAS	US emissions warning barp: off     US electronic engine power reduction: off	Possi	ible apparent symptoms: the starter turns but the engine	Breakdown notice:	
BN2000	0x32E3 13027	EWS-DME interface Hardware fault	immobilger messages.	P165A Hardware Error		- Defective DME	memory immediately.	note	valid for the duration of the - Monore electrical system voltage between 9 V and 16	ione - Ni	kme NO	CAS bus telegram	N	- Defective DME	- Replace DME	- CC massage: none none     - ECE emissions warning     lamp: off     - ECE electronic engine		fails to start	Nore	None
								1	v							- ECE electronic engine power reduction: off - CC message: none				
						The fault is registered when a message error is present.	The diagnostic fault code is		Temperature condition: - None Time condition: - None Other conditions:							- US emissions warning lamp: off				
MEVD17.2- BN2000	0x32E4 13028	EWS-DME interface Frame error	The diagnostic function monitors the electronic immobilizer messages.	P1620 EWS (Electronic Immobilizer) Telegram Error		Potential problem source(s): - Defective CAS - Defective DME	logged when the fault remains present for longer than 3 min.	none	Engine off     Vehicle key recognized and     valid for the duration of the     P	brie - Ni	ione NO	CAS bus telegram	N	- Defective CAS - Defective DME	- Replace CAS - Replace DME	US electronic engine power reduction: off - CC message: none none	In worst case	ible apparent symptoms: the starter turns but the engine fails to start	Breakdown notice: None	None
									- Onboard electrical system voltage between 9 V and 16 V							ECE emissions warning lamp: off     ECE electronic engine				
						The fault is registered when a time limit violation is detected.		1	Temperature condition: - None Time condition: - None Other conditions: - Engine off							power reduction: off - CC message: none				
MEVD17.2-			The diagnostic function monitors the electronic			Potential problem source(s): - Defective sitting harmess - Defective CAS	The diagnostic fault code is logged when the fault remains present for longer		- None Other conditions: - Engine off - Vehicle key recognized and					- Defective wiring harness - Defective CAS	Check wing harness between CAS and DM     Replace CAS	- US emissions warning lamp: off     - US electronic engine power neduction: off	Possi	ible apparent symptoms: the starter turns but the engine	Breakdown notice:	
BN2000	0x32E5 13029	EWS-DME Interface Timeout	immobilizer messages.	P1681 Timeout EWS (Electronic Immobilizer)-Telegram		- Defective DME	Ban 3 min.	none	valid for the duration of the - M - Onboard electrical system voltage between 9 V and 15	brie - Ni	ione NO	CAS bus telegram	N	- Defective DME	- Replace DME	CC message: none none		fails to start	None	None
									V Temperature condition							ECE emissions warring lamp: off     ECE electonic engine power reduction: off     -CC message: none				
						The fault is recognized when the checksum is false.			- None Time condition: - None Other conditions: - Engine off							- US emissions warning lamp: off				
MEVD17.2- BN2000	0x3285 13030	EWS-DME interface Receive error, CAS interface	The diagnostic function monitors the electronic immobilizer messages.			Potential problem source(s): - Defective CAS - Defective DME	This fault is logged in the control module's fault memory immediately.	note	- Engine off - Vehicle key recognized and valid for the duration of the - P	ione - Ni	kme NO	CAS bus telegram	N	- Defective CAS - Defective DME	- Replace CAS - Replace DME	US electronic engine power reduction: off 	Posal In worst case	ible apparent symptoms: the starter turns but the engine fails to start	Breakdown notice: None	None
									Voltage condition: - Onboard electrical system voltage between 9 V and 15							Lamp: of - ECE electronic angine power reduction: off - CC message: none				
						The fault is recognized when no memory is available for the EWS electronic immobilizer synchronization.			V Temperature condition: - None							- CC massage: none     US emissions warning     lamp: off				
MEVD17.2- BN2000	0x32E7 13031	DME, internal fault: EWS data: no available memory possibility	The diagnostic function monitors the electronic immobilizer messages.	EWS (Electronic Immobilizer) Data, No Available P165C Storage Possibility		Potential problem source(s): - DME defective	This fault is logged in the control module's fault memory immediately	Terminal 15	- None Time condition: - None Other conditions:	iros - Ni	iron NO		N	- DME defective	- Berlan DMF	ump: on - US electronic engine power reduction: off - CC message: none none	Possi	ible apparent symptoms: - nore	Breakdown notice: - none	- 5008
									Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine				
						The fault is recognized when errors are present in the saved EWS electronic immobilizer date.			Votage between 9 V and 16 V Temperature condition: - None							power reduction: off - CC message: none - US emissions warning				
MEVD17.2-		DME, internal fault: EWS data: Fault, activation-	The diagnostic function monitors the electronic	EWS (Electronic Immobilizer) Data, Faulty		Potential pathlem anarosis/	This fault is logged in the control module's fault		Time condition: - None Other conditions:							lamp: off - US electronic engine power reduction: off	Possi	ible apparent symptoms:	Breakdown notice:	
BN2000	0x32E8 13032	code storage	The diagnostic function monitors the electronic immobilizer messages.	EWS (Electoric Immobilizer) Data, Faulty P155D Release Code Storage		- DME defective	memory immediately.	Terminal 15	- none     - None     - None     - Notage condition:     - Onboard electrical system     voltage between 9 V and 15	ione - N	ione NO	none	N	- DME defective	- Replace DME			- none	- rone	- 1078
						The fault is recognized when errors are present in the										ECE electoric engine     power reduction: off     - CCE message: none				
						errors are passent in the saved EWS electronic immobilizer data.	This fault is logged in the control module's fault		Temperature condition: - None Time condition: - None Other conditions:						- Only replace the DME if the fault remains	US emissions warning lamp: off     US electronic engine power				
MEVD17.2- BN2000	0x32E9 13033	DME, internal fault: EWS data: Checksum error	The diagnostic function monitors the electronic immobilizer messages.	P162E EWS (Electronic Immobilizer) Data, Checkaum Error		Potential problem source(x): - DME defective	control module's fault memory immediately.	Termina 15	- none (+ r	bne - N	ione NO	none	N	- DME defective	present continuously or if the fault frequency is greater than 3	reduction: off - CC message: none none lamp: off - ECE electronic angine	Possi - Brea	ible apparent symptoms: akdown in extreme cases	Breakdown notice: - none	- none
						The fault is recognized when errors are passent in the saved EWS electronic			Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition:							ECE electronic engine power reduction: off - CC message: none				
						immobilizer data.	This fault is looped in the		Temperature condition: - None Time condition: - None Other conditions:						- Crity replace the DME if the fault remains	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x32EA 13034	DME, internal fault: EWS data: Writing fault 'Secret Key'	The diagnostic function monitors the electronic immobilizer measures.			Potential problem source(s): - DME defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	- none - P	icos - N	iera NO	none	N	- DME defective	- Unity replace the LNUC in the fault remains     present continuously or if the fault frequency is     greater than 3	US electronic engine power reduction: off     -CC message: score none     -ECE emissions warning	Possi - Brea	ible apparent symptoms: akdown in extreme cases	Breakdown notice: - none	- 1008
						The fault is recognized when no message has been received from the CAS.		1	- Onboard electrical system voltage between 9 V and 15 V Temperature condition:							ECE emissions warning lamp: off     ECE electoric orgine power reduction: off     - CC message: none				
						Potential problem source(s):			Temperature condition: - None Time condition: - None Other conditions: - Engine off						- Check wiring harmass on CAS, gateway and a	<ul> <li>US emissions warning</li> </ul>				
MEVD17.2-	0-728°	PART THE STREET	The diagnostic function monitors communications on the CAN bus to assess electronic immobilizer messages.	Lost Communication With Vehicle Immobilizer		Defective wiring harness     Gateway detect     Defective CAS     Defective DM#	The diagnostic fault code is logged when the fault remains present for longer than 3 min			-	irra	PM 6	N	Defective wiring hameas     Gateway defect     Defective CAS     Defective DME	the DME - Replace gateway - Replace CAS - Replace DME	lamp: off - US electronic engine power reduction: off - CC management power	Possi In worst case	ible apparent symptoms: I the starter turns but the engine fails to start	Breakdown notice:	Mana
BN2000	- enameC   13036	EWS-DME message incorrect Timeout	excernic introduizer mussinges.	U0167 Control Module		- Defective DME     The fault is recognized when     the status of the brake light	than 3 min.	none	valid for the duration of the - M - Onboard electrical system voltage between 9 V and 15	- N	NO NO	CAN bus telegrams	19	- Defective DME	- Replace OME	- CC message: none     - ECE emissions warning     lamp: off     - ECE electronic engine		fails to atart	Nora	Nore
						the status of the brake light switch does not correspond to that of the brake light test switch.		1	V Temperature condition: - None Time condition:							ECE electronic engine     power reduction: of         - CC message: on				
						switch. Potential problem source(s); - Defective wining hameas - Brake light switch defective	This fault code is logged in the control module's fault memory when it remains present for longer than		Temperature condition: - None Time condition: - 2 min. continuous open cincuit at both switches (phase light switch and brake light teat switch) - Chas excition:	- 21	min. continuous open cuit at both switches ske light switch and brake			- Defective wiring harness	Check wiring harness between DME and brail light switch     - Replace brake light switch	- US emissions warning a lamp: off				
MEVD17.2- BN2000	0x3325 13093	Brake light switch, plausibility: Signal implausible	The diagnostic function monitors the plausibility of the brake light switch	P0571 Brake Switch 'X' Circuit	Brake Switch Elec	- Denetive Dive	present for longer than 2 sec.	Terminal 15	light test switch) Other conditions: - M Voltage condition:	bne igh	rake light switch and brake to test switch) NO	none	N	Defective wiring hamess     Brake light switch defective     Defective DME	Replace brake light switch     Replace DME	US electronic engine power     reduction: off <u>CC message: on     lamp: off </u>	Possi	ble apparent symptoms: CC message	Breakdown notice: None	None
						The fault is recognized by the driver circuit diagnostic function.			- Onboard electrical system voltage between 9 V and 16 V							lamp: off - ECE electronic engine power reduction: off - CC message: on				
						Potential numbers are precisi-			v Temperature condition: - None Time condition:					- Defect in wiring harness between CAS and		- US emissions warring lamp: on				
MEVD17.2- BN2000	0x332C 13100	Terminal 15_3, line from CAS, electrical: Shot circuit to earth or line disconnection	The diagnostic function monitors the redundant "Terminal 15 off" wire from the CAS to the DME for short circuits to ground and opens.	P15B1 Terminal 15 Sense Circuit Low	Terminal 15 / 87 Elec	- Defect in wiring harmess between CAS and DME     - Defective CAS     ectrical     - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none - M	ione - N	ione NO	none	N	DME - Defective CAS - Defective DME	Check wiring harness between CAS and DM     Replace CAS     Replace DME	E - US electronic engine power reduction: on - CC message: on none	Possi	ible apparent symptoms: None	Breakdown notice: None	Nons
						The fault is recognized by the driver circuit diagnostic function.			Voltage condition: - Onboard electrical system voltage between 9 V and 15							samp: off - ECE electronic angles power reduction: off - CC message: on				
						Potential problem source(x):			V Temperature condition:							- US emissions warning				
MEVD17.2- BN2000	amp	Terminal 15_3, line from CAS, electrical: Short circuit to 8+	The diagnostic function monitors the redundant "Terminal 15 off" who from the CAS to the DME for short circuits to positive.	P1580 Terminal 15 Server Circuit High	Terminal 15/87 Elec	Defect in wiring hamean between CAS and DNE Defective DNE Defective DNE	This fault is logged in the control module's fault memory immediately	1 1	- None Other conditions: - Studdown phase - M	-	irra		N	Defect in wiring harmess between CAS and DME     Defective CAS     Defective CAS     Defective DME	Check wiring harness between CAS and DM     Replace CAS     Replace DME	lamp: off	Possi	ible apparent symptoms: Nore	Breakdown notice: Notes	Norm
Br62000	13101	ORDER TO B+	DOLETING STREET, ID DORBTIG.	Lettinau 15 Jennie Dicolf High	Concession of All Elec	ectrical - <u>Orfective DME</u> logged when no voltage is present at the DME input (KL7_1 or 154_1) although the main relay has closed.			- Shuldown phase - M Voltage condition: - Onboard electrical system voltage between 9 V and 16		NO	Inone		- Lenetron LME	- respect CME	- ECE emissions warning			NOTE	NCRE
						Potential problem source(s):			V Termeral na condition							lamp: on - ECE electronic engine power reduction: on - CC message: on				
		Terminal 87_1, power supply awtiched by main	The diagnostic function monitors the voltage-			Fuse detective     Detect in wiring harness between main relay and DME	This fault is logged in the		- None Time condition: - None					Frae defective     Defect in wiring harmeas between main relay     and DME     Main relay defective	Check fuse     Check wing harness between main relay an     DME     Replace main relay	- US emissions warring d lamp: on - US electronic engine power	Possi	ble apparent symptoms:		
MEVD17.2- BN2000	0x332E 13102	relay, electrical: Short circuit to earth or line disconnection	supply wire to Terminals 15N_1 and KL87_1 for an open wire or short circuit to ground.	P15D9 Terminal 15N_1 / 87_1 Power Supply Circuit	Terminal 15 / 87 Elec	- Main relay defective     - Defective DME     logged when no voltage is	control module's fault memory immediately.	Terminal 15	Other conditions:	icne - Ni	icra NO	none	N	Main relay detective     Defective DME	- Replace main relay - Replace DME	- CC message: on none	Range from	n reduced power to breakdown vehicle	Breakdown notice: None	Norm
						logged when no voltage is present at the DME input (KL87_2 or 15N_2) although the main relay has closed.			Voltage condition: - Onboard electrical system voltage between 9 V and 15							- ECE emissions warning lamp: on     - ECE electronic engine power reduction: on     - CC message: on				
						Potential problem source(s): - Puse defective - Darled in wiring hanneas between main relay and DME - Main relay defective - Main relay defective			V Temperature condition:					- Fuse defective	- Check fuse - Check wing harress between main relay an	- CC message: on     - US emissions warning     d lamp: on				
MEVD17.2- BN2000	0x332# 13103	Terminal 87_2, power supply switched by main relay, electrical: Short circuit to earth or line disconnection	The diagnostic function monitors the voltage- supply whe to Terminals 15N_2 and KL87_2 for an open whe or abort circuit to ground.	P15ED Terminal 15N_2/87_2 Power Supply Circuit	Terminal 15 / 87 Elec		This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none - M	ione	ione NO	none	N	Defect in wiring harness between main relay and DME     Main relay defective     Defective DME	Check wiring harness between main relay an DME     Replace main relay     Replace DME	d lamp: on - US electronic engine power reduction: on - CC message: on none	Posal Range from	ible apparent symptoms: n reduced power to breakdown vehicle	Breakdown notice: None	None
						loggid when no voltage is preart at the DME input (Terminal 87.3 or 15 N.3) although the main relay has closed.			Voltage condition:							- ECE emissions warning				
									Voltage condition: - Onboard electrical system voltage between 9 V and 16 V							Lamp: on - ECE electronic engine power reduction: on - CC message: on				
		87_3Terminal, power supply switched by main	The discreatic function monitors the voltage-			Potential problem source(s): - Fuse defective - Datect in wing harmess between work more used 1948	This loop in the Control of	1	Temperature condition: - None Time condition: - None					Fuse defective     Defect in wing harmess between main relay     med DME	Check fuse     Check wing hamess between main relay an     DME	- US emissions warning d lamp: off				
MEVD17.2- BN2000 MEVD17.2-	0x3330 13104	relay, electrical: Short circuit to earth or line disconnection	supply wire to Terminals 15N_3 and KL87_3 for	P15P8 Terminal 15N_3 / 87_3 Power Supply Circuit	Terminal 15 / 87 Elec	- Defect in wiring harness between main relay and DME     - Main relay defective bectrical     - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none - M	ione - Ni	ione NO	none	N	- Detective DME     - Defective DME	DME - Replace main relay - Replace DME	- US electronic engine power neduction: off - CC message: none none	Posal Range from	able apparent symptoms: n reduced power to breakdown vehicle	Breakdown notice: None	None
BN2000	0x3358 13147 0x335C 13148																			
ME VD17.2- BN2000	0x335D 13149					the time required for engine cooling is impleusibly short		]												
						relative to the calculated time.			Voltage condition: - Onboard electrical system							- ECE emissions warning				
						Potential problem source(s): - Instrument cluster disconnected from Terminal			Onboard electrical system     voltage between 9 V and 15     V     Temperature condition:							ECE emissions warring lamp: on     ECE electronic engine     power reduction: on				
			-			30 during stationary phase (battery change) - Collateral fault starming from a delective engine			- Engine temperature at engine shutdown > 80 °C - Engine cooled by > 10 °C Time condition:					Instrument cluster disconnected from Terminal 30 during stationary phase (battery change) Collections for disconnected and a difference of the disconnected and a statement of the statement	If Terminal 30 was disconnected, no further action required	power reduction: on - CC message: on - US emission warning tomo: off				
MEVD17.2-	0/3362	Engine switch-off time, plausibility. Time to short in correlation to engine-coolert cooling	The diagnostic function monitors the engine's calculated downtime by comparing it with the drop in coolant temperature while the engine is withinwary.	External Engine Off Timer Engine Off Time Too Short in Correlation to Cooling-Down Of Engine Context	Freine Off Timer Enternal	- Collateral fault from	This fault is logged in the control module's fault memory immediately		- None - t	ngine temperature at gine shutdown > 80 °C noine contect down > 10 °C - Ni	irra		Y	Collateral fault stemming from a defective engine temperature sensor     Collateral fault from incorrect time storal from	Note any logged faults related to the coolant temperature sensor     Check whether the instrument cluster time is	reduction: off	Possi	ible apparent symptoms:	Breakdown notice:	No
BN2000	083392 13202	anut in correlation to angine-coolant cooling	abilionary.	P15E8 Coolert	Engine Off Timer, External Com	Incorrect time aignal from the the time required for engine cooling is implexably long	memory immediately.	none	- Engine CN - E - Onboard electrical system voltage between 9 V and 15	ngine cooled down > 10 °C - N	NO NO	none	T	fhe instrument cluster	correct	- CC message: none     US only     - ECE emissions warning     lamp: on	·	None	Nora	Nore
						relative to the calculated time.			V Temperature condition: - Engine temperature at engine shutdown > 80°C							lamp: on - ECE electronic angine power reduction: on - CC message: on				
			The diagnostic function monitors the engine's calculated downlime by comparing it with the	External Engine Off Timer Engine Off Time Too		Potential problem source(s): - Collateral fault stemming from a detective engine temperature sensor	This fault is logged in the		Time condition:					Collateral fault stemming from a detective engine temperature sensor     Collateral fault stemming from incorrect time	Watch for diagnostic fault code entries related to the coolant temperature sensor, replace the coolant temperature sensor as indicated - Check whether the instrument cluster time is					
MEVD17.2- BN2000	0x3353 13203	Engine switch-off time, plausibility: Time to long in correlation to engine-coolant cooling	The diagnostic function monitors the engine's calculated downime by comparing it with the drop in coolent temperature while the engine is abstronary.	P15E9 Content	Engine Ott Timer, Esternal Com	relation tom incorrect time signal	This fault is logged in the control module's fault memory immediately.	none	Other conditions: - Ergine ON en	ngine temperature at gine ahutdown > 80°C - Ne	ione NO	nane	Y	Collateral taut aterming from incorrect time     algoal from instrument cluster	Check whether the instrument cluster time is     correct	- CC message: none US only	Possi	ible apparent symptoms: None	Breakdown notice: None	None
						response to a disparity of 12 sec. The comparison atlasts again every minute while the engine is numing.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: on - CC message: on				
							The diagnostic fault code is		- None Time condition: - None Time condition: - None						- Because this is a collateral fault, start by	- US emissions warning lamp: off				
MEVD17.2- BN2000	0x3394 13204	Engine switch-off time: Too fast during engine operation	The diagnostic function compares the internal timers of the DME and the instrument cluster while the engine is running.	External Engine Off Timer Incrementation Too P15FA Past During Engine Running	Engine Off Timer, External Increm	restation to unously - Collateral tout resulting from fault memory entries in the DME and/or instrument mentation classes	logged when the fault remains present for longer than 3 min.	Terminal 15	- Engine ON - P	ione - Ni	ione NO	none	Y	Colateral fault resulting from fault memory entries in the DME and/or instrument cluster	resolving issues related to other faults logged in the DME or instrument cluster; no additional action will be needed with these kinds of faults	- US electronic engine power reduction: off     - CC message: none     US only	Possi	ible apparent symptoms: None	Breakdown notice: None	Non
						response to a disperty of 12 sec. The comparison starts again every minute while the engine is running.			Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: on - ECE electronic angine power reduction: on - CC message: on				
						Potential problem source(s):	The diamontin for	1 0	V Temperature condition: - None Time condition: - None						- Secause this is a collateral fault, start by	- US emissions warning				
MEVD17.2- BN2000	0x3355 13205	Engine switch-off time: Too slow during engine	The diagnostic function compares the internal timess of the DME and the instrument cluster while the engine is running.	External Engine CH Timer Incrementation Too Store During Engine Running	Engine Off Timer, Eviaveal	the DME and/or instrument	The diagnostic fault code is logged when the fault remains present for longer than 3 min.		Other conditions:	koa .	kra Lui	Prome.	Y	Collateral fault resulting from fault memory entries in the DME and/or instrument cluster	resolving issues related to other faults logged in	reduction: off	Possi	ible apparent symptoms: None	Breakdown notice: None	Nova
0-2000	13005	operation	A REAL PROPERTY OF THE PROPERT	P15FB Silve During Engine Running	Engine Off Timer, External Increm	mentation cluster The fault is recognized when no CAN time signal is branumited for longer than		1	- Ergine CN - M Voltage condition: - Onboard electrical system voltage between 9 V and 15	- 14		100		control of the second distribution challer	the second	lamp: on - ECE electronic engine			The R	100.00
						5 mc.			V							power reduction: on - CC message: on - US emissions warning				
MEVD17.2-			The diagnostic function monitors transmission of the CAN time signal from the instrument			- Collateral fault resulting from fault memory entries in the DME and/or instrument	This fault is logged in the control module's fault		None     Time condition:     None     Other conditions:					- Colateral fault resulting from fault memory	Because this is a collateral fault, start by resolving issues related to other faults logged is the DME or instrument cluster; no additional	amp: off - US electronic engine power reduction: off	Possi	ible apparent symptoms:	Breakdown notice:	
BN2000	0x3356 13206	Engine switch-off time, signal: missing	cluster. Diagnosis is interlocked by CAN fault.	P15PE External Engine Off Timer No Signal	Engine Off Timer, External Elec	Cital Cital	memory immediately.	Terminal 15	- none - P Voltage condition:	ione - N	ione None	None	N	entries in the DME and/or instrument cluster	action will be needed with these kinds of tauta	CC message: none     US only	/ No d	display of time and date	Nors	None
						The fault is recognized when a deviation of more than 12 sec. is present.			- Onboard electrical system voltage between 9 V and 16 V Temperature condition:							tamp: on - ECE electronic engine power reduction: on - CC message: on				
AND IN THE OWNER			The disgnostic function compares the internal timess of the DME and the instrument cluster when the ignition is switched on again while the	External Engine Cit Timer Incrementation Too		Potential problem source(s): - Collateral fault resulting from fault memory entries in the DNE and/or instances	This fault is logged in the control module's fault		- None - None - None - None Other conditions:					- Collisional Inchastic Action In-	Because this is a collateral fault, start by resolving issues related to other faults logged is the DME or instrument cluster, no additional	- US emissions warning lamp: off     - US electronic engine power reduction: off		ble apparent symptoms:	Breakdown notice:	- The ECU shutdown phase lasts between 1 min.
ME VD17.2- BN2000	0x3356 13206	Engine switch-off time: Too fast during after-run	when the ignition is switched on again while the control module is in its shutdown phase.	External Engine Off Timer Incrementation Too P15FC Fast During ECM Alternaning	Engine Off Timer, External Increm	mentation duster	memory immediately.	Terminal 15	- none - N	ione - N	ione NO	none	Y	Collateral tault resulting from fault memory entries in the DME and/or instrument cluster	the DME or instrument cluster; no additional action will be needed with these kinds of faults	- CC message: none US only	Posal	None	oreasoown notice: None	- The ECU shutdown phase lasts between 1 min. and 20 min.

		1			1	-		ane condition		1	1		1	harma on		1	
					The fault is recognized whe a deviation of more than 12 sec. is present.	m 2	- Onbo voltage	board electrical system age between 9 V and 15						lamp: on - ECE electronic engine power reduction: on - CC message: on			
		The diagonatic function compares the internal			Potential problem source(s)	1	- None	perature condition: ne					- Because this is a collateral fault, start by	- US emissions warning lamp: off			
MEVD17.2- RN2000 0v3359 133	11200 Frains witch of time: Too sine during alter on	The disgnostic function compares the internal times of the DME and the instrument cluster when the ignition is aveitched on again while the control module is in its shutdown phase.	External Engine Off Timer Incrementatia P15/ID Slow During ECM Alternation		Collateral fault resulting from fault memory entries in the DME and/or instrument Incrementation cluster	This fault is logged in the control module's fault memory immediately	- None Other Terminal 15	a condition: ne ir conditiona: ne - None	- Niron	NO			resolving issues related to other faults logged in the DME or instrument cluster; no additional action will be needed with these kinds of faults	US electronic engine power reduction: off - CC message: none	Possible apparent symptoms: US only None	Breakdown notice: None	- The ECU shutdown phase lasts between 1 min. and 20 min.
BN2000 0x33DC 132	13209 Engine switch-off time: Too alow during after-run 13276																
MEVD17.2- BN2000 0x33DD 132 MEVD17.2- BN2000 0x33DE 132 MEVD17.2-	13277																
BN2000 0x33DF 133	13279																
MEVD17.2- BN2000 0x33E0 132 MEVD17.2- BN2000 0x33E1 132	13280																
					The fault is recognized whe the oil pressure rises above	:	voltage V	board electrical system age between 9 V and 15						lamp: off - ECE electronic engine power reduction: off - CC message: none			
					the limit several times within a defined period.	`	Temps - Engl temp, :	perature condition: gine warmed to normal b, above 80 °C						- US emissions warning			
MEVD17.2-	Ol-pressure control, dynamic Pressure	The diagnostic function monitors the oscillation	Engine Oli Pressure Control, Dynamic, P	ressure	Potential problem source(s) - Oil pressure control valve defective	This fault is logged in the control module's fault	Time c - None Other	penature conditor: igine warmed to normal o, above 80 °C c condition: ne ir conditions: - Engine	warred to normal			- OI pressure control valve defective	- Replace oil pressure control valve	lamp: off - US electronic engine power reduction: off	Possible apparent symptoms: - Vibration noise at a frequency between 5 Hz	Breakdown notice:	
BN2000 0x23FC 13	13306 variationa	characteristics of the oil pressure.	P152E Facturiors		Ol pump defective	memory immediately.	Terminal 15 - Engin	gine ON tempera	dure, more than 80°C - None	yes+ SGBD job name	-Norm N	- OI pump defective	- Replace of pump	- CC message: none	none and 7 Hz	- 5558	- 5508
					the of pressure rises beyon a defined level in relation to oil temperature and engine speed.			age condition: board electrical system age between 9 V and 16						ECE emissions warring lamp: off     ECE electronic engine     power reduction: off			
					Potential problem source(x) - Defect in writing harness	1	- Engi temp, 1	penature condition: igine warmed to normal 5, above 80 °C						- CC message: none - US emissions warning			
MEVD17.2-	Engine oil pressure control, static: Engine oil	The diagnostic function monitors the oil	Engine Oil Pressure Control, Static, Sel To Limp Home Operation Because Eng	ID and	between of-pressure senso and DME - Defective of-pressure	This fault is logged in the control module's fault	- None Other	i condition: ne ir conditiona: - Engin	warried to normal			Defect in wiring harness between oil-pressure sensor and DME     Defective oil-pressure sensor	Check wiring harness between oil-pressure sensor and DME     Replace oil-pressure sensor	lamp: off - US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x33FD 133	13309 pressure too high, emergency operation	pressure.	P155F Pressure Too High in Map Operat	en	sensor the oil pressure drops below a defined level in relation to	memory immediately.	Voltag	age condition:	iture, more than 80°C - None	yes+ SGBD job name	- Norva N	Ol pressure control valve defective	Replace of pressure control valve	- CC message: none     - ECE emissions warning	nore - nore	- 1016	- 1016
					oil temperature and engine speed.	·	- Onbo voltage V	board electrical system age between 9 V and 15						ECE electronic engine power reduction: off			
					Potential problem source(x) - Defect in wiring harness between oli-pressure senso	): #	Temps - Engi temp, :	perature condition: spine warmed to normal b, above 80 °C				- Defect in wiring harmass between oil-pressure	- Check wiring harness between of-pressure	CC message: none     US emissions warning			
MEVD17.2-	Engine oil pressure control, static: oil pressure	The diagnostic function monitors the oil	Engine Oil Pressure Control, Static, Set To Limp Home Operation Because En P15A0 Pressure Too Low in Map Operati	ichover gine Ol	Protential problem source(r) - Defect in wirring hannass between circle pressure search and Chilf - Orferction of pressure - Off pressure control volve	This fault is logged in the control module's fault	Time c - None Other	parature condition: igine warmed to normal o, above 80 °C is condition: ne ir conditions: - Engine	warmed to normal			sensor and DME - Defective of-pressure sensor - Of pressure control valve defective	sensor and DME - Replace of-pressure sensor - Replace of pressure control valve	lamp: off - US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x33FE 133	Ergine oil pressure control, static: oil pressure 13310 too low, emergency operation	pressure.	P15A0 Pressure Too Low in Map Operati	on		memory immediately.		gine ON temper board electrical system age between 9 V and 15	dure, more than 80°C - None	yes+ SGBD job name	-None N	- OI pump defective	- Replace of pump		none - none	- tone	- hone
					The fault is recognized by the driver circuit's diagnostic function.		Temps	perature condition:						ECE emissions warning lamp: off     ECE electronic engine power reduction: off     - CC message: nove			
					Potential problem source(x) - Defective plug or wring harness	3	- None Time c - None	ne i condition: ne ir conditions:					- Check wing harress between oil pump and	- CC message: none     - US emissions warning     lamp: off			
MEVD17.2- BN2000 0x23FF 132	Oil pressure control valve, activation: Short	The diagnostic function monitors the wire from the DME to the oil-pressure control valve for shorts in control.	PINEC Real Advances of the	it Mon	Oli pressure control valve/oil pump defective	This fault is logged in the control module's fault memory immediately	- Engin	pine on ntrol-activation of oil-	N	steven_odr,	PWM activation signal, Ordean	Defective plug or wining harness     Oil pressure control valveloil pump defective     Otherchen DME	Check witing harness between oil pump and DME     Replace oil pressure control valve/oil pump     Replace Of DMF	- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	N
01000 01000	13311 circuit to B+	eriorite to positive.	Engris Of Pressure Control Valve Circu		- Defective DME The fault is recognized by	tory inmediately.	- Onbo	ages control valve - None. board electrical system age between 9 V and 15	1 - NOTR	ateuem_ende_odt	- N	- velocive DMC	- respece LANE	CC message: none     ECE emissions warning     lamp: off	Norm Norm	None	NEOR
					the driver circuit's disgnastic function.		V Tempe - None	perature condition: ne						lamp: off - ECE electronic engine power reduction: off - CC message: none			
					Potential problem source(r) - Defactive page or wing harmonic - Oracle and the factors which is a factors - Department of the factors	× .	Time o - None Other	ne i condition: ne ir conditions: gine on ntrol-activation of oli-					- Check wing harness between oil pump and DME	- US emissions warning lamp: off			
MEVD17.2- BN2000 0x3400 132	Oil pressure control valve, activation: Short circuit to earth	The diagnostic function monitors the wire from the DME to the oil-pressure control valve for shorts to ground.	P15EB Engine OI Pressure Control Valve Circo	atLow	Oil pressure control valve/oil pump defective Defective DME	This fault is logged in the control module's fault memory immediately.	- Engin - Conti rone greater	pine on nitrol-activation of oil- a <u>ure control valve - None</u>	- None	steuern_odr, steuern_ende_odr	PWM activation signal, Oxfeasa N	Defective plug or wiring harness     Oil pressure control valveloil pump defective     Defective DME	DME - Replace oil pressure control valve/oil pump - Replace DME	US electronic engine power reduction: off     CC message: none	Possible apparent symptoms: none None (possible increase in fuel consumption)	Breakdown notice: None	None
					The fault is recognized by the driver circuits diagnostic function.		- Onbo voltage	board electrical system age between 9 V and 15						ECE emissions warning lamp: off     ECE electronic engine power reduction: off     - CC message: none			
					friedrive circuit a diagnosis function. Potential problem source(s)		Temps - None Two	perature condition: ne s condition:									
		The diagnostic function monitors the wire from			Defective plug or wiring     harmess     Oll pressure control	This fault is log-read in the	- None Other - Engin	ne Ir conditions: gine on				- Delective plag or wiring harmess	- Check wing harress between oil pump and DME	- US emissions warning lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x3401 132	OI pressure control valve, activation: Line disconnection	The diagnostic hunchon monitors the whe thom the DME to the oil-pressure control valve for open circuits.	P15EA Engine QI Pressure Control Valve Circu	it/Open	Or pressure control valve/oil pump defective     OME	This fault is logged in the control module's fault memory immediately.	- Cons none press	ntrol-activation of ol- aure control valve - None	- None	steuern_odr, steuern_ende_odr	PWM activation signal, 0x4aaa N	Oli pressure control valveloi pump defective     Oli pressure control valveloi pump defective     Oli pressure control valveloi pump defective	- Replace oil pressure control valve/oil pump - Replace DME	- OS exectionic engine power     reduction: off     - CC message: none     longe aff	Possible apparent symptoms: None None	Breakdown notice: None	None
					The fault is recognized who the of pressure rises beyon a defined level in relation in	n d	voltage V	board electrical system ige between 9 V and 16 peraiture condition:						lamp: off - ECE electronic engine power reduction: off - CC message: none			
					the taken is necessarily and the method of the second seco		- Engi temp.	perature condition: give warmed to normal s, above 80 °C s condition:						- CC message: none - US emissions warning lamp: off			
MEVD17.2- BN2000 0x3405 130	13317 Oil pump, mechanical Oil pressure too high	The diagnostic function monitors the oil pressure.	P15A3 Engine OI Pressure Too High		Potential problem source(s) - Mechanical defect in oil pump	This fault is logged in the control module's fault	- None Other	ne ir conditions: - Engin	swamed to normal sure, more than 80°C - None	yes+ SGBD job name	N	- Mechanical defect in oil pump	Barbarationer	- US electronic engine power reduction: off - CC message: none	Possible apparent symptoms:	Breakdown notice: - none	
					The fault is recognized whe			board electrical system age between 9 V and 15						lamp: off - ECE electronic engine power reduction: off			
					the of pressure rises beyon a defined level in relation to oil temperature and engine	d 5	V Temps - Engl	perature condition: gine warmed to normal 5, above 80 °C						- CC message: on			
					speed. Potential problem source(u) - Mechanical defect in oil	This fault is logged in the control module's fault	Time c	a condition:						US emissions warning lamp: off     US electronic engine power reduction: off		Breakdown notice: - Engine damage possible. Switch off en	
MEVD17.2- BN2000 0x3406 132	13318 Oil pump, mechanical Oil pressure too low	The diagnostic function monitors the oil pressure.	P0524 Engine Oil Pressure Too Low		pump	memory immediately.	Terminal 15 - Engin	er conditions: - Engin gine ON temper broard electrical sostem	s warmed to normal dure, more than 80°C - None	yes+ SGBD job name	- None N	Mechanical defect in oil pump	- Replace of pump	- CC message: on	Possible apparent symptoms: - norm - norm	Engine damage possible. Switch off en continued driving is not possible.	- 5004
					The fact in encogrized who the of pressure remains at maintrum hereid despite tergeted application of voltage to the solenal	1		board electrical system age between 9 V and 16						lamp: off - ECE electronic engine power reduction: off - CC message: on			
					voltage to the solenoid value.		- Engl temp, 1 Time of	perature condition: gine warred to normal o, above 80 °C e condition: ne						- US emissions warning lamp: off			
MEVD17.2- BN2000 0x3408 130	Oi-pressure control valve, mechanical: hangs in fully energized position (minimum oil pressure)	The diagnostic function monitors the oil pressure.	Engine Ol Pressure Control, Mechan Solenoid Valve Stoking In Fully Ener P15A1 Position (Minimum Oil Pressure)	pized	Potential problem source(s) - Oil pressure control valve defective	This fault is logged in the control module's fault memory immediately.			swamed to normal dure, more than 80°C - None	yes+ SGBD job name	Norm	- Oil pressure control valve defective	- Benjara ol resours recreted value	US electronic engine power reduction: off     CC message: on	Possible apparent symptoms: none - none	Breakdown notice: - Engine damage possible. Switch off en continued driving is not possible.	pre,
					The fault is recognized whe the oil pressure remains at	n 1	- Onbo	pine ON temper board electrical system sge between 9 V and 16						lamp: off			
					maximum level despite targetet application of votage to the solenoid value.		V Temps - Engl	perature condition: gine warried to normal						ECE electronic engine power reduction: off - CC message: none     - US emissions werning			
			Engine Oil Pressure Control, Mechan Sciencid Valve Sticking In De-Energined	vical,	valve. Potential problem source(x) - Oil pressure control valve	: This fault is logged in the control module's fault	temp, : Time c - None	ghe warried to normal , above 80 °C s condition: re or conditions: in con						US emissions warning lamp: off     US electronic engine power reduction: off			
MEVD17.2- BN2000 0x3409 132	Ol-pressure control valve, mechanical: stuck in de-energized position (maximum oil pressure)	The diagnostic function monitors the oil pressure.	Solenoid Valve Sticking In De-Energized P15A2 (Maximum Oil Pressure)	r senari	SPECIVE	control module's fault memory immediately.			I warried to normal stare, more than 80°C - None	yes+ SGBD job name	- None N	- Oil pressure control valve defective	- Replace of pressure control valve	CC message: none	Possible apparent symptoms: - none - none	Breakdown notice: - none	- none
					The fault is recognized whe the voltage of the engine of pressure sensor exceeds 4.9 V.		- Onbo voltage V	age condition: board electrical system age between 9 V and 15						lamp: off - ECE electronic engine power reduction: off - CC message: none			
					Potential problem source(a) - Pault in writing harriess	1		perature condition: ne i condition:				- Fault in wiring hameas between sensor and	- Check wiring herness between DME and	- US emissions warning lamp: off			
MEVD17.2- BN2000 0x3426 133	Engine oil pressure sensor, electrical: Short 13350 circuit to B+	The diagnostic function monitors the upper voltage limit of the engine of pressure sensor.	P0523 Engine OI Pressure Seneor/Switch 'A	Hah	between sensor and DME - Sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately.	- None Other Terminal 15 - rome	ne ir conditions: ne - None	- None	NO	Read test data block; ID 585# N	DME - Sensor defective - Defective DME	sensor - Replace sensor - Replace DME	US electronic engine power reduction: off - CC message: none	Possible apparent symptoms: none None	Breakdown notice: None	None
					the votage of the engine oil pressure sensor is less than 0.1 V.	:	- Onbo	ige condition: board electrical system						ECE emissions warning lamp: off     ECE electronic engine			
					Potential problem source(x) - Fault in writing herness	1	V Temps	ge between 9 V and 16 penature condition:						- CC message: none			
					Pominas process scores, - Fauti in vitro parasas batesen ergina ol-presson sarcor are di Mit - Ergina ol-presson sarcor are di Mit	n This fault is logged in the	- None Time c - None	ne I condition:				Fault in widing harness between engine of- pressure sensor and DME     Engine of-pressure sensor defective	Inspect wiring harness between engine of- pressure sensor and DME     Replace engine of-pressure sensor	- US emissions warning lamp: off - US electronic engine power			
MEVD17.2- BN2000 0x3427 132	Engine oil pressure sensor, electrical: Short 13351 circuit to earth	The disgrostic function monitors the engine of- pressure sensor's lower voltage limit.	P0522 Engine OI Pressure Sensor/Switch 7	Low	- Defective DME	memory immediately.	Terminal 15 - none	r conditions: 16 - None age condition:	- None	NO	Read test data block; ID 5867 N	Engine of pressure sensor detective     Defective DME	Replace engine of-pressure sensor     Replace DME	reduction: off - CC message: none	Possible apparent symptoms: None None	Breakdown notice: None	None
					the oil pressure fails to change by more than 12 hP for longer than 2.5 sec.	*	- Onbo	ege condition: board electrical system ege between 9 V and 15						lamp: off - ECE electronic engine power reduction: off - CC message: none			
					Potential problem source(s) - Defect in wining harness between oi-pressure sense	2	- None Time o	penature condition: ne i condition:						- US emissions warning lamp: off			
MEVD17.2- BN2000 0x342B 133	Engine oil pressure sensor, plausibility: Signal 13355	The diagnostic function monitors the oil pressure.	Engine OI Pressure SensorSwitch P0521 RangePerformance	w	benever or pressure series and DME - Defective of pressure sensor	This fault is logged in the control module's fault memory immediately.	- None Other	r conditions: utdown phase - None	- Norm	yes+ SGBD job name	- None	Defect in wining harvess between oil-pressure sensor and DME     Defective oil-pressure sensor	Check wiring harriess between oil-pressure sensor and DME     - Replace oil-pressure sensor	- US electronic engine power reduction: off - CC message: none	Possible apparent symptoms: none - none	Breakdown notice: - none	- 1016
	iteration in the second s		Nam gent with Clarke		The fault is recognized whe the of condition sensor reports a fault.	n	- Onbo	board electrical system age between 9 V and 15				and the pression and the		- CC massage: none     lamp: of     - ECE electonic engine     power reduction: off     - CC massage: none	* 100.0 M	- 10.10	
					reports a fault. Potential problem source(s). - Defect in pluga or wining		V Tempe - None	perature condition: ne e condition:									
					harness between oil condition sensor and DME	In The diagnostic fault code is logged when the fault remains present for longer	- None Other	ne ir conditions:				- Defect in pluga or wiring harmess between oil condition sensor and DME	- Check plugs and wining harness between oil condition sensor and DME	US emissions warning lamp: off     US electronic engine power	Possible apparent symptoms: Adaptation (reduction) of angles oil service		
MEVD17.2- BN2000 0x343F 132	Oil condition sensor, electrical: Level	The diagnostic function monitors the oil condition sensor.	P1587 Engine OI Quality Sensor Level Measur	ement Engine OI Quality Sensor	- Oil condition sensor Level defective	than 1 min.	Terminal 15 - Engin	pine on pine speed above 5000 - None	- Nicos	NO	none N	condition sensor and DME - OI condition sensor defective	condition sensor and DME - Replace of condition sensor	reduction: off - CC message: none	Adaptation (reduction) of engine oil service internal	Breakdown notice: None	Nices
					The fault is recognized whe the of condition sensor reports a fault over the bus.		V	board electrical system age between 9 V and 15 perature condition:						ECE emissions warring lamp: off     ECE electronic engine     power reduction: off			
					Potential problem source(s) - Defect in plags or wring harness between oil condition	): an	- Engin greate Time o	gine oil temperature ter than 100 °C a condition:						- CC message: none     - US emissions warning			
MEVD17.2-	Oil condition sensor, electrical: Temperature	The diagnostic function monitors the oil	Engine Oil Quality Sensor Temperat	Line .	sensor and DME - Water in oil - Oil condition sensor	The diagnostic fault code is logged when the fault remains present for longer	- Long	oper than 15 minutes	oil temperature			Defect in plugs or wiring harmass between oil condition sensor and DME     Water in oil	Check plags and wining harness between oil condition sensor and DME     - Replace engine oil	- US electronic engine power reduction: off	Possible apparent symptoms: Adaptation (reduction) of engine oil service	Breakdown notice:	
BN2000 0x3440 133		temperature signal to detect electrical faults.	P1586 Measurement	Engine Oil Quality Sensor	Temperature defective	than 1 min.	Terminal 15 - Engin Voltag	gine on - Engin gine speed above 5000 greater age condition: hourd alexit call system	than 100 °C - Longer than 15 min.	NO	none N	Ol condition sensor defective	Replace of condition sensor	- CC message: none	none interval	Nora	None
					The fault is recognized whe no BSD biogram from the o condition arean (CLT) is received.	·		ege condition: board electrical system ege between 9 V and 15						Exercised and a second and a se			
					Potential problem source(x) - Problem with BSD wire between DME and oil qualit	The diagnostic fault code is		perature condition: ne a condition: ne			BSD CAN (QLT)	- Problem with BSD wire between DME and oil	Check wiring harness between DME and oil     evolve exercise (20 T)	- US emissions warning lamp: off Only relev	vant for EGs, as it is only vehicle with		
MEVD17.2- BN2000 0x3446 133	55D message from the of condition sensor: missing	The disgnostic function monitors the BSD message from the oil level sensor (QLT).	P1521 Engine OI Quality Sensor Communication	on Error Errgine Oil Quality Sensor	between DME and oil qualit sensor (QLT) Communication - Defective DME	The diagnostic fault code is logged when the fault remains present for longer than 2 min.	Terminal 15 - none	ir conditions: ne - None	- None	NO	Indicate relevant measured variables from SGBD job test data block! N	Problem with BSD wire between DME and oil     quality sensor (QLT)         - Defective DME	quality sensor (QLT), - replace of quality sensor (QLT), - replace DME	- CC message: none	uality-Level-Temperature unit, all other Possible apparent symptoms: are equipped with a TOENS thermal oil Adaptation (reduction) of engine oil service level sensori interval	Breakdown notice: None	None
							- Onbo	ege condition: board electrical system ege between 9 V and 15						ECE electronic engine power reduction: off			
					The fault is recognized whe the engine oil level falls below 5 liters.	^	None	penature condition: ne						- CC message: on - US emissions warning			
MEVD17.2-		The diagnostic function monitors the engine of			Potential problem source(n) - Engine operated with of level too low	): The diagnostic fault code is logged when = TRUE is recognized 50 times.	Time c - None Other	i condition: ne ir conditions:		20			- Top up engine oil	lamp: off - US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BN2000 0x3447 132	13383 Engine ol level: Too low	incel.	P250F Engine OI Level Too Low	Engine OI Level	Lervel bevel too low The fault is recognized whe file of condition search reports a fault over the bus.	n necognized 50 times.	none - Engin Voltag - Onbo	gine ON - None lige condition: board electrical system	I-None	NU	INTE N	Engine operated with oil level too low	- Check oil level		norm CC message	Note	Nices
					Potential problem source(s)	: :	voltage V Temps	ge between 9 V and 15 perature condition:						Europ. off - ECE electronic engine power reduction: off - CC message: none			
					Defect in plags or wiring harwas between oil condition sensor and DMP	n This fault is logged in the	- None Time c - None	ne a condition: ne				- Defect in plugs or wiring harness between oil	- Check plugs and wiring harness between oil	- US emissions warning lamp: off - US electronic engine power	Possible apparent symptoms:		
MEVD17.2- BN2000 0x3449 130	13385 Oil condition sensor, electrical: maifunction	The diagnostic function monitors the signal from the oil condition sensor for electrical faults.	P253A Engine OI Quality Sensor Circul	Engine Oil Quality Sensor	Electrical     Ol condition sensor     defective     The fault is recognized whe	control module's fault memory immediately.	Terminal 15 Other	er conditions: ne - None leae condition:	- Norm	NO	none N	condition sensor and DME - Oil condition sensor defective	condition sensor and DME - Replace oil condition sensor	reduction: off - CC message: none	Adaptation (reduction) of engine oil service interval	Breakdown notice: None	None
					the signal voltage exceeds 3.6 V.		- Onbo voltage V	board electrical system age between 9 V and 15						ECE electronic engine power reduction: off - CC message: none			
					Potential problem source(x) - Defect in plags or wining harness between engine of	The diagnostic fault code is	Temps - None Time c	perature condition: ne e condition: ne						- US emissions warning lamp: off			
MEVD17.2- BN2000 0x344C 133	Engine oil temperature senacr, electrical: malfunction	The diagnostic function monitors the signal from the engine oil temperature sensor for electrical mailunctions.	P0125 Engine OI Temperature Senacr 'A' C	insit	temperature sensor and DM - Detective engine oil temperature sensor	I The diagnostic fault code is logged when the fault remains present for lorger than 2 min.	- None Other Terminal 15 - none	ne ir conditiona: te - None	- None	NO	none N	Defect in plugs or wiring harness between engine oil temperature sensor and DME     Defective engine oil temperature sensor	Check plugs and wing harress between engine oil temperature sensor and DME     Replace engine oil temperature sensor	US electronic engine power reduction: off CC message: none	Possible apponent symptoms: Adaptation (reduction) of engine oil service interval	Breakdown notice: None	None
BN2000 0x344E 132																	
BN2000 0x344F 133	1484	1	I	1	1	1		1		- 1	· · · · ·	1	1	· · · · ·	I	1 1	1

Hart         Hart <th< th=""><th></th><th></th><th></th><th></th><th>A fault is recognized when the engine temperature is below 50 °C when the text is</th><th></th><th>- Onboard electrical system voltage between 9 V and 15 V</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>					A fault is recognized when the engine temperature is below 50 °C when the text is		- Onboard electrical system voltage between 9 V and 15 V								
					executed. Because the test time is defined by the		V Temperature condition - Coolant temperature sensor					- ECE emissions warning			
					temperature model, it is also determined by the model's input variables (air mass.		Time condition:					lamp: on - ECE electronic engine power reduction: on			
					ambient temperature and model temperature).		Other conditions: - Engine cold start								
		The diagnostic function monitors the rise in			Potential problem source(x): - Defective wiring harness	The diagnostic fault code is logged when the fault	30 km/s - Ambient temperature higher					lamp: off			- When the engine is heated from external
		connection.		Thermostat Functional Check	thermostat defective	ternains present for longer than 1 min.		None	-No none Y	Characteristic map thermostat defective		CC message: none ML ON in US versions only	- The culput of the instruct heater may be reduced.	Interestion None	errora can result
					The fault is recognized by		Onboard electrical system     voltage between 9 V and 16					ECE electronic engine     power reduction: on			
							V Temperature condition:					- US emissions warning			
	MEVD17.3-	The diagnostic function monitors activation of			Potential problem source(s): - Defect in wiring harness between DME and program	This fault is logged in the control module's fault	- None Other conditions:		STEUERN_KFT, STEUERN_ENDE_KFT, PVM activation signal,		controlled thermostat - Replace map-controlled thermostat	- US electronic engine power reduction: off	Possible apparent symptoms: US: MIL on, customer proceeds to service	Breakdown notice:	
No.       N	BN2000 0x348E 13454 Map thermostat, activation: Short circuit to B+	<ul> <li>the program map thermostat.</li> </ul>	P0559 Thermostat Heater Control Circuit High	Therrocatat Electrical	map thermostat	memory immediately.	none - Ergine ON - None - P	Nicos	STATUS KFT Dx4x74 N	program map (hermostat	Replace DME	Larp: of	facility.	Norm	Norm
					The fault is recognized by the driver circuit's diagnostic		voltage between 9 V and 16 V					- ELE electronic engine power reduction: on - CC message: none			
							Temperature condition: - None Time condition:				Check wiring harness between DME and mep-				
	MEVD17.2- BN2000 0x348F 13455 Map thermostet, advation: Short circuit to earl	The diagnostic function monitors activation of the program map thermostal.	P0556 Thermostet Heater Control Circuit Low	Thermostat Electrical	Defect in wiring harness between DME and program map thermostat	This fault is logged in the control module's fault memory immediately.	- None Other conditions: - Engine CN - None - P	Norm	STEUERN_KFT, STEUERN_ENDE_KFT, PVM activation signal, STATUS KPT Dovla74 N	Defect in wiring harness between DME and program map thermostal		- US eachtric ergine power reduction: off - CC message: none none	Possible apparent symptoms: US: ML on, customer proceeds to service facility.	Breakdown notice: None	Norm
							Voltage condition:					larp: of - ECE electronic engine			
					the driver circuit's diagnostic function.		V Terrenation								
					Potential problem source(x): - Defect in winto hameas	This fault is looged in the	- None Time condition: - None		STEUERN KFT.		Check wiring harness between DME and map- controlled thermostet	tamp: off	Possible accorent symptoms:		
	MEVD17.2- BN2000 0x3460 13455 Map thermostat, activation: Line disconnection MEVD17.2-	The diagnostic function monitors activation of the program map thermostal.	P0597 Thermostat Heater Control Circuit/Open	Thermostat Electrical	between DME and program map thermostat	control module's fault memory immediately.	Other conditions: - Ergine ON - None - N	None	STEUERN_ENDE_KFT, PVM activation signal, STATUS_KFT Dovla74 N	Defect in wiring harness between DME and     program map thermostat	Replace map-controlled thermostat     Replace DME	reduction: off - CC message: none none	US: MIL on, customer proceeds to service facility.	Breakdown notice: None	None
	BN2000 0x34A3 13475					-									
	BN2000 0x34A5 13450 MEVD17.2														
	BN0000 0x34A9 13481 MEVD17.2- BN0000 0x34AD 13485														
	BN2000 0x34AE 13486														
	BN2000 0x34AF 13487				the actual idle speed		Orbcard electrical system					lamp: on			
					apeed by more than 100 rpm.		V					- CLC electronic engine power reduction: on - CC message: on			
							- crapin swamed to normal lengs above 80 °C Time condition:				- If faults related to the throttle valve have	- US emissions warning lamp: off			
	MEVD17.2- BN2000 0x3520 13000 ide speed control: Engine speed too high	The diagnostic function monitors the idle speed when the engine is warmed to normal operating temperature.	P0507 Ide Control System RPM Higher Than Excercised	Idle Speed Control RPM		This fault is logged in the control module's fault memory immediately.		3 sec. after engine on	none N	<ul> <li>Leak in air-induction tract between throttle</li> </ul>	- Check for leaks in air-induction tract between	- US electronic engine power reduction: off	Possible apparent symptoms: - Ide speed too high	Breakdown notice: None	None
					the actual idle speed falls below the specified idle							Lamp: on - ECE electronic engine			
					rpm.		V Temperature condition					power reduction: on - CC message: on			
		The diagnostic function monitors the idle speed			Potential problem source(s): - Collateral fault from defective throttle valve	This fault is logged in the	Introp, adven 80 °C Time condition: - 3 sec. state engine on			- Collateral fault from defective throttle valve	- If faults related to the throttle valve have been logged, repair these first	lamp: off			
		when the engine is warmed to normal operating temperature.	P0505 Idle Control System RPM Lower Than Expected	Idle Speed Control RPM	between throttle valve and	control module's fault memory immediately.	- Engine warried to normal none Other conditions: temperature, more than 80°C - 3	3 sec. after engine on	none N		Check for leaks in air-induction tract between throttle value and engine	- CC message: none US only			Naces
					exceeds the specified idle speed by more than 300		Vorsege constant:     Onboard electrical system     voltage between 9 V and 15					- ECE electronic engine power reduction: on			
							V Temperature condition: - None					- US emissions warning			
		to The diagnostic function monitors the idle speed			<ul> <li>Leak in air-induction tract</li> </ul>	control module's fault				- Leak in air-induction tract between throttle	- Check for leaks in air-induction tract between	- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
No.     No. <td></td> <td>during the catalytic converter's warmup phase.</td> <td></td> <td>Idle Speed Control Cold Start RPM</td> <td>the actual idle speed fails</td> <td>memory immediately.</td> <td>none - Engine CN - None - P Voltage condition:</td> <td>Norse</td> <td>none N</td> <td>valve and ergine</td> <td>Brotile valve and engine</td> <td>- CC message: none US only</td> <td>- Ide speed too high</td> <td>None</td> <td>None</td>		during the catalytic converter's warmup phase.		Idle Speed Control Cold Start RPM	the actual idle speed fails	memory immediately.	none - Engine CN - None - P Voltage condition:	Norse	none N	valve and ergine	Brotile valve and engine	- CC message: none US only	- Ide speed too high	None	None
No.     No. <td></td> <td></td> <td></td> <td></td> <td>below the specified idle speed by more than 300 rpm.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ECE electronic engine     power reduction: on     - CC message: on</td> <td></td> <td></td> <td></td>					below the specified idle speed by more than 300 rpm.							ECE electronic engine     power reduction: on     - CC message: on			
No.         No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Temperature condition: - None Time condition:</td> <td></td> <td></td> <td></td> <td>- If faults related to the throttle valve have</td> <td>- US emissions warning</td> <td></td> <td></td> <td></td>							Temperature condition: - None Time condition:				- If faults related to the throttle valve have	- US emissions warning			
	MEVD17.3- BN2000 0:3525 12605 low low	The diagnostic function monitors the idle speed	Cold Start Idle Air Control System RPM Lower Than Exceeded (Bank 1)	Idle Soeed Control Cold Start RPM	detective throttle valve - Leak in air-induction tract between throttle valve and	This fault is logged in the control module's fault memory immediately.	- None Other conditions: - Engine CN - None - P	Norm	none N	Collateral fault from defective throttle valve     Leak in air-induction tract between throttle     valve and engine	been logged, repair these first - Check for leaks in air-induction tract between throttle valve and engine	- US electronic engine power reduction: off	Possible apparent symptoms: - In extreme cases the engine may stall.		Norm
Normal Property in the second state     Normal Property in t							Voltage condition: - Onboard electrical system					lamp: off - ECE electronic engine			
					The fault is recognized when		Voltage between 9 V and 15 V Temperature condition:								
	Monitoring engine torque limitation: Maximum	n				The diagnostic fault code is logged when the fault	- None Time condition: - None					lamp: off	Possible apparent symptoms:	- It is possible to continue driving the vehicle,	
	MEVD17.2- permitted nominal terque is continuously BN2000 0x3528 13608 exceeded	The diagnostic function monitors the maximum approved specified longue.			Potential problem source(x): - DME defective	remains present for longer	none - Ergine ON - None - F	None	NO none Y	- DME defective	Reprogram DME     Replace DME	reduction: off - CC massage: none none	Reduction in engine power (Imp-home mode)     Engine rpm limitation	but passing maneuvers should not be attempte owing to the reduction in engine output.	None
					The fault is recognized when		V					- ECE electronic engine			
No. 10       No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10       No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10       No. 10     No.					6.5 sec, while the vehicle is		- None								
No. 10       No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10       No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10     No. 10       No. 10     No.						This fault is looged in the	- 384 sec. Other conditions: - Engine on					US emissions warning lamp: on     US electronic engine power	Possible apparent symptoms: When accelerator pedal is depressed at idle the		
	MEVD17.2- BN2000 0x3529 13609 Isle speed limitation with stationary vehicle MEV077.3-	E The diagnostic function monitors the engine for overheating while the vehicle is stationary.			Abuse (driver revs engine while vehicle is stationary)	control module's fault memory immediately.	- Idle speed greater than Terminal 15 2000 rpm - None - 2	384 auc.	NO none Y		Clear ECU fault memory. No further measures necessary.	reduction: on	engine speed is limited once the indicated time period elapses	Breakdown notice: - none	Norse
	BN2000 0x352A 13610						Vultage condition:					lamp: off			
No.         And a					The diagnostic fault code is							power induction off - CC message: on			
					logged when the voltage value for ECU temperature > 4.9 V.		Temparatures condition: - None Time condition:					- US emissions warning			
				ECM/TCM Internal Temperature		This fault is logged in the control module's fault memory immediately.	Other conditions:	None	NO none N	- DME defective	present continuously or if the fault frequency is	- CC message: on none		Breakdown notice: - none	- 1008
							Voltage condition: - Orboard electrical system politana betaura 9 V and 15					lamp: off - ECE electronic engine revear reduction: off			
Image: bit is a standing of the standing of t					ECU taut memory when the voltage for the control		V Terrenation					- CC massage: on			
M       M					0.1 V.	This fault is logged in the	Time condition: - None					- US electronic engine power			
	BN2000 0x3585 13701 value too low	temperature for violation of a lower limit.	P163A PCMECMTCM Internal Temperature Too Low	ECM/TCM Internal Temperature	- DME defective	memory immediately.	Terminal 15 - none - None - N	None	NO none N	- DME defective	greater than 3	- CC message: on none	- Loss of power	- 1018	- 1016
					The fault is recognized when							ECE electronic engine power reduction: off     CC message: on			
No.         No. <td></td> <td></td> <td></td> <td></td> <td>the temperature in the DME is too high.</td> <td></td> <td>Temperature condition: - None Time readilion:</td> <td></td> <td></td> <td></td> <td>- Charle E-brey fan an indirated</td> <td>- US aminations warning</td> <td></td> <td></td> <td></td>					the temperature in the DME is too high.		Temperature condition: - None Time readilion:				- Charle E-brey fan an indirated	- US aminations warning			
				ECMTCM Internation	Potential problem source(s): - DME overheated - Defective PM#	This fault is logged in the control module's fault memory immediately.	- None Other conditions: none - none - None - N	None	none Temp, 0x6821 Y	- DME overheated - Defective DME	Only replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	US electronic engine power     reduction: on     - CC message: on			- 1009
							Voltage condition:								
					current draw in the driver circuit exceeds 4 amps while							- LLL electronic engine power reduction: on - CC message: on			If the fault occurs while the Valvetronic unit's
							- None Time condition: - None					MY11 US: - US emissions warning lamp: on			stroke is not at full extension then the engine will stall and fail to restart. This is because the Valvetronic driver circuit is deactivated and the
	MEVD17.2- BN2000 0x2800 14000 DME, internal fault, activation Valvetronic: mailworkion	The diagnostic function monitors the current flow through the Valvetronic actuator motor when the driver gircuit is switched of	Internal Control Module Error, Control Circuit VVT	ECM Valuatives (NVT) Comment	Potential problem source(x): - Defective wiring harness - Defective PM#	This fault is logged in the control module's fault memory immediately	Other conditions: - Voltage bahind motor relay Terminal 15 - 55.V	Norm	none N	- Defective wiring harness - Defective DM <sup>II</sup>	Check wiring harness between Valvetronic actuator motor and DME - Replace DMP	reduction: on none	Possible apparent symptoms: - Breakdywn in estreme resea		Valvetronic unit cannot return to minimum atroke. If the fault occurs at maximum atroke,
							Voltage condition:					ECE emissions warning lamp: off     ECE electronic envine			
							v					power reduction: off - CC message: none MY11 IP-			
					The fault is recognized by the self-diagnosis.		- None - None The condition:					- US emissions warring lamp: on			
	MEVD17.2- BN2000 0x3585 14005 DME, internal fault. Datase EEPROM faulty.		P052F Internal Control Module EE PROM Error	ECM/TCM EEPROM	Potential problem source(s):	This tault is logged in the control module's fault memory immediately.	- Note - Note - N	Non	NO none N	- DME defective	- unly replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	US electronic engine power reduction: off - CC message: on write(Selete cycles).	Possible apporent symptoms: Engine can fail to start when fault is active (electronic immobilizer).		- 1908
No.         No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Voltage condition: - Onboard electrical system rollphen heteron 0 V and 16.</td> <td></td> <td></td> <td></td> <td></td> <td>lamp: on - ECE electronic engine power reduction: on</td> <td></td> <td></td> <td></td>							Voltage condition: - Onboard electrical system rollphen heteron 0 V and 16.					lamp: on - ECE electronic engine power reduction: on			
					The first in an		V Temperature condition:								
		The descent is been and the second			the self-diagnosis.	This fault is logged in the	Time condition: None None				- Only replace the DME if the fault remains	lamp: on - US electronic engine power	Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
	ME VU17.2* BN2000 0x3588 14008 DME, internal fault: Monitoring-module fault	-re cagrossc surction monitors the DME's     internal monitor modules.	P050A Performance	ECM/TCM Processor	- DME defective	control module's fault memory immediately.	Terminal 15 - none - None - N	None	NO none Y	- DME defective	greater than 3	- CC message: on none	- Loss of power - Speed limitation	out passing maneuvers should not be attempte owing to reduction in engine output.	A seminal status witch must be conducted     before this fault can be deleted.
							Voltage condition: - Onboard electrical system voltage between 8 V and 16					lamp: off - ECE electronic engine power reduction: on			
					The fault is recognized her							CC message: on MY11 US:     US emissions warning			
	MEVDIZ-	The diagonatic function monitors the intervent			the self-diagnosis.	This fault is logged in the control module's fault	Time condition: - None Object conditions:					lamp: on	Possible arrowed sum	Breakdown notice: Continued driving is not possible while fault is active. When the fault is not possible while fault is	- A terrinal above which must be much and
N         N	BN2000 0x30BB 14011 mailundion	ABE and WDA wire in the DME.	P16EA Internal Control Module Watchdog Error	ECM Watchdog	- DME defective	memory immediately.	Terminal 15 - none - None - N	None	NO none Y	- DME defective	greater than 3			continued driving is possible with no restrictions	before this fault can be deleted.
N         N							Onboard electrical system voltage between 9 V and 15					samp: on - ECE electronic engine power reduction: on			
100 $100$ <t< td=""><td></td><td></td><td></td><td></td><td>The fault is recognized by</td><td></td><td>V Temperature condition: - None</td><td></td><td></td><td></td><td></td><td>- LL message: on MY11 US: - US emissions warning</td><td></td><td></td><td></td></t<>					The fault is recognized by		V Temperature condition: - None					- LL message: on MY11 US: - US emissions warning			
100 $100$ <t< td=""><td>MEVD17.2- DME, internal fault, watchdoo general-faulte</td><td>The diagnostic function monitors the internal</td><td>Internal Control Module Watchdor</td><td></td><td>Potential problem source(s):</td><td>This fault is logged in the control module's fault</td><td>Time condition: - None Other conditions:</td><td></td><td></td><td></td><td>present continuously or if the fault frequency is</td><td>- US electronic engine power reduction: on</td><td>Possible apparent symptoms:</td><td>Breakdown notice:</td><td>- A terminal status switch must be conducted</td></t<>	MEVD17.2- DME, internal fault, watchdoo general-faulte	The diagnostic function monitors the internal	Internal Control Module Watchdor		Potential problem source(s):	This fault is logged in the control module's fault	Time condition: - None Other conditions:				present continuously or if the fault frequency is	- US electronic engine power reduction: on	Possible apparent symptoms:	Breakdown notice:	- A terminal status switch must be conducted
Image: bit im	BN2000 0x36BC 14012 question/server communication	WDA wire in the DME.	P16EB Communication Error	ECM Watchdog	- DME defective	memory immediately.		None	NO none Y	- DME defective	greater than 3	- CC message: on none	- Breakdown in extreme cases	- 5008	before this fault can be deleted.
N         N							Vossge condition: - Onboard electrical system voltage between 2 V and 15					samp: on - ECE electronic engine power reduction: on			
$\frac{1}{100}  100 $					The fault is recognized by										
$\frac{1}{100}  100 $	MEVD17.2- DMP internal lask waterbers wheth	The diagnostic function monitors the interval	Internal Control Morkele West-bring Deservation		the self-diagnosis.	This fault is logged in the control module's fault	Time condition: - None Other conditions:				- Only replace the DME if the fault remains present continuously or if the fault fermancy in	lamp: on - US electronic engine power netuction: on	Possible apparent summineer	Braikdowr weine	- A terminal status switch must be conducted
Note	BN2000 0x328D 14013 Overvoltage detection	ABE wire in the DME.		ECM Watchdog	- DME defective	memory immediately.		None	NO none Y	- DME defective	greater than 3		- Breakdown in extreme cases		before this fault can be deleted.
No.         No. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>- Onboard electrical system voltage between 9 V and 16 V</td> <td></td> <td></td> <td></td> <td></td> <td>- ELC electronic engine power reduction: off - CC massage: none</td> <td></td> <td></td> <td></td>							- Onboard electrical system voltage between 9 V and 16 V					- ELC electronic engine power reduction: off - CC massage: none			
Sector         Control (Control (Contro) (Control (Control (Control (C					The fault is recognized when the DME has not been encoded.		Temperature condition: - None Time condition:					- US emissions warning lamp: off			
Sector         Control (Control (Contro) (Control (Control (Control (C		The discroatic function monitors the environ			Potential problem source(s):	This fault is logged in the control module's fault memory investigate	- None Other conditions: Terminal 15 - rone - Nove	None	None V	- DME not accorded	- Encode PARE	- US electronic engine power reduction: off	Possible apparent symptoms: - Power limited only in extreme cases	Breakdown notice: Because power may be reduced passing managers should be survive-1	Norm
	MEVD17.5- BN2000 0x268F 14015														

			-	Voltage condition: - Onboard electrical system voltage between 9 V and 16						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis.	1	v Temperature condition: - None Time condition:						- US emissions warning lamp: on			Breakdown notice:	
MEXIOT 2- BICCOD         0.000, Internit register inglists public check         De dapositic function nombres he DME*s check         Control Modal Montering Scher / Function AD           DECCOD         0.0000         14016         Check         Internit states         PDIDA         Control Modal Montering Scher / Function AD	ECM Monitoring Safety Function	This fault is logged in the Potential problem source(s): control module's fault - DME detective memory immediately.	note	- None Other conditions: - Engine ON - None	- Norm	NO	none Y	- DME defective	Only replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	US electronic engine power reduction: on CC message: on	none	Possible apparent symptoms: - Loss of power - Speed limitation	<ul> <li>It is possible to continue driving the vehicle, but passing maneuvers should not be attempted owing to reduction in engine output.</li> </ul>	A terminal status awitch must be conducted before this fault can be deleted.
			-	Voltage condition: - Onboard electrical system voltage between 9 V and 15 V						Iamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-degrosis.	1	Temperature condition: - None Time condition:						- US emissions warning lamp: on			Breakdown notice: - It is possible to continue driving the vehicle,	
NEV.017.2 DVKE, viewni faud, elstric acoelentor pedd The diagnosis: function monitors the DVE's Control Models Ministry Soliday Function AD 800000 0x5621 10177 monitoring AD zonestier, lant usiliga check internal latelas. P326A Conseter Error	ECM Monitoring Safety Function	This fault is logged in the ontrol module's fault - DME defective memory immediately.		- None Other conditions: - Engine CN - None	- Norm	NO	1928 Y	- DME defective	Crily replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	US electronic engine power reduction: on <u>-CC message: on</u> lamp: on -ECE electronic engine	0208	Possible apparent symptoms: - Loss of power - Speed limitation	It is possible to continue driving the vehicle, but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
			-	- Onboard electrical system voltage between 9 V and 16 V Temperature condition:						- ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis.	-	- None Time condition: - None					- Only replace the DME if the fault remains	US emissions warning lamp: on     US electronic engine power reduction: on			Breakdown notice:	
MEV.D17.2 bb(2017.2 bc)C22 14016 Db(), Internal ItuAl, Relactic accelerator padal The diagnosite function monitors the DME's Control Module Monitoring Safety Function Are BN2000 bc)C22 14016 monitoring Are quartity adjustment internal stateurs Pour Adjustment P2008 Pour Adjustment P2	ECM Monitoring Safety Function	DME defective     This tault is logged in the     Potential problem source(s):         - DME defective     memory immediately.	none	- None Cher conditions: - Engine ON - Engine speed above 1200 - None Voltage condition:	- Norm	NO	none Y	- DME defective	present continuously or if the fault frequency is greater than 3		none	Possible apparent symptoms: - Loss of power - Speed limitation	Breakdown notice: - It is possible to continue dhving the vehicle, but passing maneuvers should not be attempted oveing to reduction in engine output.	A terminal status awitch must be conducted before this fault can be deleted.
		The fault is recognized by the self-dispress.	-	Vollage condition: - Onboard electrical system vollage between 9 V and 16 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
DRE, internal fault monitoring of signal		Potential problem acurce(s): - Accelerator pedal module defective This fault is logged in the	1	Temperature condition: None Time condition: None				- Accelerator pedal module defective	Check wining harness between DME and accelerator pedal module     Replace accelerator pedal module     Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
ME/U07.3         psaubity, accelerator pedial incluito or pedial         The dispraisic function monitors the DME's         Internal Control Medial Accelerator Pedial           BV0200         0xXCG         14/19         sensor         internal internal         PMOD         Pediator	ECM Accelerator Pedal	Wring harness defective control module's fault     DME defective memory immediately.	note	Other conditions: - Engine ON - None Voltage condition: - Onboard electrical system	- None	NO	nane Y	Wing hamess detective     DME detective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
		The fault is recognized by the self-disprcsis.	-	- Onboard electrical system voltage between 9 V and 16 V Temperature condition:						Iamp: on - ECE electronic engine power reduction: on - CC message: on				
		Potential problem source(n): - Canckahaf sensor detective - Wring harness detective control module's fault	1	- None Time condition:				- Crankshaft sensor detective - Defect in wing harness	Check winnig harmass between DME and crankahaft sensor     Replace crankahaft sensor     Coly replace the DME if the fault remains	US emissions warning lamp: on     US electronic engine power reduction: on		Possible apparent symptoms: - Loss of power	Breakdown notice: - It is possible to continue driving the vahicle, but passing maneuvers should not be attempted	
MEI/0172- DME, Internal Insk, electr esceleniar pedat De2020 bo2022 H0200 montering Speed senar MEI/0122 Speed Senar Dmr	ECM Monitoring Safety Function	Wring harness delective control module's fault     OME defective memory immediately.	h	- None Char conditions: - Ergine CN - None Voltage condition:	- Norm	NO	nane Y	Defect in wiring harmess     DME defective	present continuously or if the fault frequency is greater than 3	- CC message: on	Done	- Loss of power - Speed limitation	but passing maneuvers should not be attempted oveing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
			-	- Onboard electrical system voltage between 9 V and 16 V Temperature condition:						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis. This fault is logged in the	1	- None Time condition: - None					- Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVIOT 2. BX2020 6x2KCS 1421 DML interve fact. Monitoring Journal Interve Int	ECM Monitoring Fuel Connection	Potential problem source(s): control module's fault - DME defective memory immediately.	none	Other conditions: - Engine ON - None Voltage condition:	- None	NO	nane Y	- DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on lamp: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
				Voltage condition: - Onboard electrical system voltage between 9 V and 16 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis. This fault is logged in the	1	Temperature condition: - None Time condition: - None					- Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEIOT2-         DME (stanut) fails flooring fail signation         The disposite function monitors the DME's         Control Model Monitors (specific Rate           800000         0x0001         February (specific Rate         Plazzo         Limitation Error	ECM Monitoring Injection Bate	Potential problem source(s): - DME defective memory immediately.	note	Other conditions:     Engine CN     - None  Voltage condition:     Onboard electrical system	- Norm	NO	none Y	- DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on lamp: on - ECE electronic engine	Done	- Loss of power - Speed Imitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
				Onboard electrical system voltage between 9 V and 16 V temperature condition:						- CC message: on				
		The fault is recognized by the self-diagnosis. This fault is logged in the	1	Temperature condition: - None Time condition: - None					- Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power reductor on OT measurements		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
ME10172 DUE, Henral Ital: Monitoria jugicio-alte Tre disposite function monitors the 2ME's Control Module Monitoria jugicion Rate INCOD 0x2007 14223 Initiation Invel 2 Initiation Enerr	ECM Monitoring Injection Rate	DME defective     This fault is logged in the     Control module's fault     DME defective     memory immediately.	none	- Ergine CN - None - Voltage condition:	- None	NO	none Y	- DME defective	present continuously or if the fault frequency is greater than 3		nore	Possible apparent symptoms: - Loss of power - Speed limitation	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted oreing to reduction is engine output.	A terminal status switch must be conducted before this fault can be deleted.
		The fault is recognized by the set-disprcais.		Vollage condition: - Onboard electrical system vollage between 9 V and 96 V V V V V V V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		the self-degrosis. Potential problem source(x): - Wring herness detective This fault is logged in the	1	Temperature condition: - None Time condition: - None				- Wring harness defective	Check wiring hamess between oxygen sensor and DME     Replace oxygen sensor     Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVIOIT 3- BX02000 In-XDCR + Heard Lask: Monitoring of the nominal The diagnositic function monitons the DME's angent sensor value intermel status. P3337 Control Module Monitoring Lambdas Plausability	ECM Monitoring Lambda Plauability	Onygen sensor defective control module's fault DME defective memory immediately.	note	Other conditions: - Ergine ON - None	- None	NO	none Y	Coypen sensor defective     DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal atatus switch must be conducted before this fault can be deleted.
		The fault is recognized by the self-degrosis.		Voltage condition: - Onboard electrical system voltage between 9 V and 15 V Temperature condition:						tamp: on - ECE electronic engine power reduction: on - CC message: on				
		Potential problem source(x): - Ral-persaure sensor defective - Writing harmess defective control module's fault		- None Time condition:				- Rail-oressure sensor defective	Check wiring harmess between DME and rati- pressure senacr     Peplace rati-pressure senacr     Cely replace the DME if the fault remains     remains with here if the fault remains	US emissions warning lamp: on     US electronic engine power reduction: on		Possible accorect symptoms:	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	
MEV.017.3 DME, internel fuel: Pasability monitoring of the The disprantic function monitors the DME's Control Module Monitoring Fast Volume 8/02000 4:0200 14205 relative fuel mass internel states. P3255 Pasability - Pasabili	ECM Monitoring Fuel Volume Control	defective This fault is logged in the - Wring harness defective control module's fault - DME defective memory immediately.	none -	None Other conditions: - Engine ON - None Voltage condition:	- Norm	NO	none Y	Rail-pressure sensor defective     Wring herness defective     DME defective	present continuously or if the fault frequency is greater than 3		none	Possible apparent symptoms: - Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal atatus awitch must be conducted before this fault can be deleted.
		The fault is recognized by		- Onboard electrical system voltage between 9 V and 15 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		the self-diagnosis. Potential problem source(s): - Secondary fault from This fault is logged in the	-	Temperature condition: None Time condition: None					Start by repairing faults related to logged ECU tauk memory entries for mixture formation     Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEV.DIT.3 b2000 hcx8CA 14326 DME, Internal fault Tarque comparison The diagnanic function monitors the DME's Internal fault Tarque calculation Internal fault Status POIS POIS Point Performance	ECM Torque	misture formation control module's taut - Defective DME memory immediately.	none -	Other conditions: - Engine ON - None	- Norm	NO	none Y	Secondary fault from mixture formation     Defective DME	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal atatus avitch must be conducted before this fault can be deleted.
		The fault is recognized by the self-degreats.		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
DME, etamol hull, electic secolaritor pedal		Potential problem source(s):		Temperature condition: None Time condition: None					Start by repairing faults related to logged ECU fault memory entries for misture formation Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEVO 17.2	ECM Monitoring Satisfy Function	Secondary fault from This fault is logged in the mixture formation control module's fault - Defective DME memory immediately.		- None Other conditions: - Engine ON - None	- Norm	NO	none Y	Secondary fault from mixture formation     Defective DME	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	Date	- Loss of power - Speed Imitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status avitch must be conducted before this fault can be deleted.
			-	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V						tamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis.		Temperature condition: None Time condition: None					- Only replace the DME if the fault remains	- US emissions warning lamp: on     - US electronic engine power reduction: on		Prosible arranged supplying	Breakdown notice:	
MEV:017.2 http://dx.ac.unit.com/public/ac.unit.com/	ECM Monitoring Coding	DME defective     This tault is logged in the     Potential problem source(s):         OME defective     memory immediately.	none	- Engine CN - None	- Norm	NO	none Y	- DME defective	present continuously or if the fault frequency is greater than 3		none	Possible apparent symptoms: - Loss of power - Speed limitation	Breakdown notice: - It is possible to continue dhving the vehicle, but passing maneuvers should not be attempted oveing to reduction in engine output.	A terminal status awitch must be conducted before this fault can be deleted.
				Voltage condition: - Onboard electrical system voltage between 9 V and 15 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis. This fault is logged in the	1	Temperature condition: - None Time condition: - None					- Only replace the DME if the fault remains	- US emissions warning lamp: on - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle.	
MEV.017.3 b 0x0CD 14232 DME, Internal lauk, electic accelerator padal The disprantic function monitors the DME's Cantrel Module Monitoring Safety Function Select The disprantic function monitors the DME's Select The dispratic function monitors the DM	ECM Monitoring Salety Function	Potential problem source(x): control module's tault - DME defective memory immediately.	none -	- Engine ON - None	- Norm	NO	none Y	- DME defective	present continuously or if the fault frequency is greater than 3	reduction: on - CC message: on	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status avitch must be conducted before this fault can be deleted.
				Voltage condition: - Onboard electrical system voltage between 9 V and 95 V Temperature condition:						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis.	1	- None Time condition:					- Only replace the DME if the fault remains	- US emissions warning lamp: on     - US electronic engine power reductor on		Prosible arranged supplying	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	
MEV:017.2 DME, internal lauf. Sethor-off pub test by The diagnosis: function monitors the DME's BNG000 0x002E 14030 monitoring module internal status. P320D Control Module Monitoring Stutiones Pub Terror	ECM Monitoring Shutdown Path	This fault is logged in the Potential problem source(x): - DME defective memory immediately.	none -	None Other conditions: - Engine ON - None Voltage condition:	- Norm	NO	none Y	- DME defective	present continuously or if the fault frequency is greater than 3		none	Possible apparent symptoms: - Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status avitch must be conducted before this fault can be delated.
				- Onboard electrical system voltage between 9 V and 15 V						lamp: on - ECE electronic engine power reduction: on - CC message: on				
		The fault is recognized by the self-diagnosis. This fault is logged in the	1	Temperature condition: None Time condition: None					- Only replace the DME if the fault remains	- US emissions warning lamp: on		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
ME(0172- b0200         Deck()         Deck()         Deck()         Deck()         Control Models Modelsing Pail Viluons Internet Indian         Polazility         Control Models Modelsing Pail Viluons           BV0200         0xXX0         F0210         mass         Massaching Pail Viluons         Plazzility	ECM Monitoring Fuel Volume Control	Potential problem source(x): control module's fault - DME defective memory immediately.		Other conditions: - Engine ON - None	- None	NO	none Y	- DME defective	present continuously or if the tault frequency is greater than 3	reduction: on - CC message: on - ECE emissions warning lamp: off	none	- Loss of power - Speed limitation	but passing maneuvers should not be attempted owing to reduction in engine output.	A terminal status switch must be conducted before this fault can be deleted.
				Voltage condition: - Onboard electrical system voltage between 9 V and 15 V						ECE electronic engine power reduction: off - CC message				
		The fault is detected by the internal calculation algorithms.	1	v Temperature condition: - None Time condition:						amp: on - ECE electoric engine power reduction: off - CC massage: none MY11 US: - US emissions warring lamp: on				
NEI/0173- DME, Henral Mult, Honolong MSC The dispetatic function motions BI02000 9x200 HS22 emmersiation Millendon in module (2021) communications while he DME. P1646 Oxford Oxf	ECM Output Stage Communication	This fault is logged in the Potential problem source(x): OME defective memory immediately.	none	- None Other conditions: - none - None	- Norm	ND	none N	- DME defective	Crily replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	reduction: off	nore	Possible apparent symptoms: Active fault can cause engine to stall or fail to atlant.	Breakdown notice: - none	- none
				Voltage condition: - Onboard electrical system voltage between 9 V and 15						ECE emissions warning lamp: off     ECE electoric engine power reduction: off     CC message: none MY11 US: US emissions warning lamp: on				
		The fault is recognized when interference occurs in communications between the		V Temperature condition: - None						CC message: none MY11 US: US emissions warring				
NECOTS 50 20 145H ammaliadi, motoring MSC ammaliadi, motoring MSC ammadiadi Statistica motoring MSC ammadiadi Statistica motoring MSC ammadiadi Statistica motoring MSC ammadiadi Statistica ammadiadi	ECM Output Stage Communication	CPU and a driver circuit. Potential problem source(s): - DME defective memory immediately.	none	Time condition: - None Other conditions: - none - None	- Norm	NO	none N	- DME defective	- Only replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	lamp: on - US electronic engine power reduction: off - CC message: on	DODE	Possible apparent symptoms: - Breakdown in extreme cases	Ensekdown notice: - none	- 1009
BICCOD         Output         Departure         P144         Output Dage         Digital Dage           BICCOD         0	ECM Valvetonic (VV7) Control													
			-	Voltage condition: - Onboard electrical system voltage between 9 V and 16						lamp: off - ECE electronic engine power reduction: on				
		The fault is recognized by the self-diagnosis.	1	V Temperature condition: - None Time condition:						ECE emissions warring Large off     ECE electoric engine power reduction: on - CC message: on MY11 US: US electoric engine power IS electoric engine power eduction: on CC message: on ECE electoric engine power eduction: on CC message: on ECE electoric engine power eduction: on CC message: on ECE electoric engine power ECE electoric electori ECE electoric electoric electori			Breakdown notice:	
MEV:017.3 - DAEE2 14250 szydy Vatage valuele value szydy Vatage valuele value szydy Vatage valuele value szydy Vatage valuele value	ECM Voltage	This fault is logged in the Potential problem source(s): control module's fault - DME defective memory immediately.	Terminal 15	- None Other conditions: - none - None	- Norm	NO	none N	- DME defective	Crely replace the DME if the fault remains present continuously or if the fault frequency is greater than 3		none	Possible apparent symptoms: - Reduced performance - Speed limitation	Breakdown notice: - It is possible to continue driving the vehicle, but passing manewares should not be attempted owing to reduction in engine output.	- 1016
				Voltage condition: - Onboard electrical system voltage between 9 V and 15						ECE emissions warning lamp: off     ECE electronic engine power reduction: on     CC message: on     MY11 US:				
		The fault is recognized by	1	V Temperature condition: - None						- CC message: on MY11 US: - US emissions warning				
MEV/D17.2- DME, internal laud, monitoring DV sensor supply The diagnostic function monitors the internal internal biological visit Supply Values 2		the self-diagnosis. This fault is logged in the Potential problem source(s): control module's fault	1	Time condition: - None Other conditions:					- Only replace the DME if the fault remains present continuously or if the fault frequency is	lamp: on - US electronic engine power reduction: on		Possible apparent symptoms: - Reduced performance	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted	
BR0000 0.02E3 14851 2 Voltage natiok vold ange sensor sogely voltage G2 P16E8 Petromena	ECM Voltage	DME defective memory immediately.	,	- none - None - None	- Norm	NO	none N	- DME defective	greater than 3	- CC message: on     - ECE emissions warning     lamp: of     - ECE electronic engine	none	- Speed limitation	owing to reduction in engine output.	- none
				- Onboard electrical system voltage between 9 V and 16 V Temperature condition:						CLE excitonic engine     power reduction: on     CC message: on     MY11 US:				
		The fault is recognized by the self-diagnosis. This fault is logged in the		- None Time condition: - None					- Only replace the DME if the fault remains	DOW Instantion angue     power reduction: on         - CC message: on         MY11 US:         - US emissions warning         lamp: on         - US electronic engine power         - US electronic engine power		Possible apparent symptoms:	Breakdown notice: - It is possible to continue driving the vehicle,	
MEIOT2- BN2020         DdfL, interval last, nontretting 3V sensar septy         The disposite function monitors the inimal sensar septy voltage 32         The disposite function         Processing         Processing	ECM Voltage	Potential problem source(s): control module's fault - DME defective memory immediately.	4	Other conditions: - none - None Voltage condition:	- Norm	NO	nane N	- DME defective	present continuously or if the fault hequency is greater than 3	- CC message: on	none	Reduced performance     Speed Imitation	but passing maneuvers should not be attempted oveing to reduction in engine output.	- 10718
		The fault is recognized when a short circuit to positive is present.								lamp: off - ECE electronic engine power reduction: off - CC message: none				
The diagonalic function monitors the starting		Potential problem source(s): - Date: in wing hameas between CAS and OME This fault is logged in the CAS detective control module's fault - CAS detective control module's fault		- None Time condition: - None				Defect in wiring harmess between CAS as     DME     CAS defective	d - Check wiring harness between CAS and DME	- US emissions warning lamp: off - US electronic engine power reduction: off				
MECOT7.2         The dispute function modes in the data           B00001         0.007A         L6274         Barlar modes whether the the CAL         P0017           B00001         0.007A         L6274         Barlar modes whether the the CAL         P0017		CAS defective control module's fault     DME delective memory immediately.	Terminal 15	Other conditions: - none - None	- Norm	NO	U N	CAS defective     DME defective	Continue fault diagnosis with CAS     · Replace DME	reduction: off - CC message: none	none	Possible apparent symptoms: None	Breakdown notice: None	None

			· · · · · · · · · · · · · · · · · · ·															
				The fault is recognized when a abort count to ground is present.			Voltage condition: - Onboard electrical system voltage between 9 V and 16 V							lamp: off - ECE electronic engine power reduction: off - CC message: none				
			The disposit function monitors the stanter	Putentia proteina successful Putentia proteina successful - Judie di nu vitro planasa bitraria	This fault is logged in the		Temperature condition:     None     Time condition:     None				- Defect in with	ring hanness between CAS and DME - CAS detertion	- Check wing harness between CAS and PMI	- US emissions warning lamp: off     - US electronic engine power				
MEVD17.2- BN2000 0x36FB	14075 Sta	nter motor, activation: Short circuit to earth	I net applicate notices months that sample control-aculture with (Terminal D) from the DME to the CAS. PDS PDS DISC Starter Relay Circuit Low	- 2012 discover	control module's fault memory immediately.	Terminal 15	None     Other conditions:     - none     Voltage condition:     - Onboard electrical system	- None - None	NO	U N		- CAS defective - DME defective	Check wing names between CAS and Unit     Continue fault diagnosis with CAS         - Replace DME	- US electronic engine power     reduction: off     - CC message: none     lamp: off     - ECE electronic engine	none	Possible apparent symptoms: Delayed engine start	Breakdown notice: None	None
				The fault is recognized when an open wire is present.			Voltage between 9 V and 15 V Temperature condition							- CC message: none				
MEVD17.3			The dispositic function motions the starter control-activation with (Terminal 20) from the	Potential problem source(s): - Defect in writing harmans between CAS and DMP - CAS defective - CAS defective	This fault is logged in the control module's fault memory immediately.		- None Time condition: - None Other conditions:				- Defect in with	ring harmess between CAS and DME - CAS defective	Check wiring harmons between CAS and DMI     Continue fault diseased with CAS	US emissions warning lamp: off     US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
MEVD17.2- BN2000 0x30FC	14075 50	arter motor, activation: Line disconnection	The digensitic function monitor for a latione control-activation with (S) from the DBH to the CAS. POEIS State Relay Circuit	- 100 JUNI 00 00 00	memory immediately.	Terminal 15	Other conditions: - none Voltage condition: - Orboard electrical system voltage between 9 V and 15 V	- None - None	NO	U N		- DME defective	Continue fault diagnosis with CAS     Replace DME	- CC message: none	Date	Possible apparent symptoms: None	Breakdown notice: None	Nices
				The full is recognized when the solition when it is implicable.			voltage between 9 V and 15 V Temperature condition: - None							Lamp: off - ECE electronic engine power reduction: off - CC message: none - US emissions warning				
MEVD17.2-			The diagnostic function monitors the switch	Potential problem source(s): - Defect in wrining harman to DMM main many	Allow DME to enter sleep		Time condition: - None Other conditions:				- Defect in white	ing harness to DME main relay	- Check wiring harness to DME main relay	- US emissions warning lamp: off     - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
BN2000 0x36FD	14077	DME main relay: implausibly open	status of the main DME naine.	- Defective DME main relay The full is recognized when when it real is present on	mode 3 times	Terminal 15	- none Voltage condition:     - Onboard electrical system voltage between 9 V and 15	- None - None	NO	U N	- Dete	ective DME main relay	- Replace DME main relay	CC message: none     lamp: off     ECE electronic engine     power reduction: off     CC message: none	none	- 1009	- rons	-1008
				a short circuit is present on the main relay actuation with. Potential problem source(s):			V Temperature condition: - None							- US emissions warning				
MEVD17.2- BN2000 0x36FE	14075 DME	I main relay, activation Short circuit to earth	The diagnostic function monitors the switch status of the main DME relay.	Platetial problem source) - Detection wing harmans to DME main relay - Detection UME main relay - Detection UME main relay	Allow DME to enter sleep mode 3 times	none	Time condition: - None Other conditions: - Shutdown phase	- None - None	NO	U N	- Defect in with - Defe	ing hamasa to DME main relay active DME main relay	Check wiring harness to DME main relay     Replace DME main relay	lamp: off - US electronic engine power reduction: off - CC message: none	none	Possible apparent symptoms: - none	Breakdown notice: - cone	- 1016
				The fault is recognized when power continuums to first to the DLRE where the CLRE where			Voltage condition: - Onboard electrical system voltage between 9 V and 15							lamp: off - ECE electronic engine power reduction: off				
				n descrives. Potential problem source(s)			V Temperature condition: - None Time condition:							CC message: on     US emissions warning     lamp: off				
MEVD17.2- BN2000 0x36FF	14079	DME main relay: implausibly closed	The diagonatic function monitors the switch atatus of the main DME relay.	Obfect in wiring harman to     DM     D	Allow DME to enter sleep mode 3 times	none	- None Other conditions: - Shutdown phase	- None - None	NO	U N	- Defect in with - Defe	ing harness to DME main relay active DME main relay	Check wiring harness to DME main relay     Replace DME main relay	US electronic engine power reduction: off     CC message: on	none	Possible apparent symptoms: - none	Breakdown notice: - none	-1018
				Electrical system voltage above 16 V			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V						- If an overvoltage fault is logged in the fault memories of multiple control modules then the	Lamp: on - ECE electronic engine power reduction: on - CC message: on				
				Potential problem source(s): - Systematic fault, for instance, unerp start with 24 V	This fault is logged in the		Temperature condition: - None Time condition: - 2 min. after engine start				, Antonio 1	uit, for instance, jump start with	source is a systematic malfunction in the vehicle (for instance, jump start with 24 V) If	- US emissions warning lamp: off     - US electronic engine power				
MEVD17.2- BN2000 0x3714	14100 Vet	hicle voltage, DME main relay: Voltage too high	The disgnatic function minitors the battery votage relative to an upper limit. POED? ECM/PCM Power Relay Control Circuit High	h ECMPCM Power Relay Electrical DME	control module's fault memory immediately.	none	Other conditions: - Speed > 20 km/h	- None - 2 min. after engine at	art NO	U. 0x5815 N		24 V 1 in power supply to DME	the overvoltage fault is logged in the fault memory of only one control module, then the problem lies with the power supply to this apecific control module.	reduction: off - CC message: none	none	Possible apparent symptoms: - none	Breakdown notice: None	Norm
				The fault is recognized when the voltage in the control wine to the Vultation in the control wine to the Vultation in the law			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							ECE emissions warning lamp: off     ECE electronic engine power reduction: on     CC message: on				
				Potential problem source(u): - Defect in writing hummas between Valuetronic relay			V Temperature condition: - None Time condition:				- Defect in wiring	ng hamasa between Valvetronic	- Check wiring harness between Valvetronic	cc message: on - CC message: on MY11 US: - US emissions warning lamp: on				
MEVD17.2- BN2000 0x3719	14105 Vah	vetronic relay, supply voltage: Short circuit to earth	The disgratis function motion the wire from the Valvetories rule for the DBE for short cincults to ground. P10E3 W17-fieldy Supply Voltage Circuit Low	and DME - Volumitivity relativities	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none	- None	NO	none N	- Valve	relay and DME retronic relay defective - Defective DME	relay and DME (U_VVTR) - Replace Valvetronic relay - Replace DME	US electronic engine power reduction: on CC message: on ECE emissions warning	none	Possible apparent symptoms: CC message, customer seeks	Breakdown notice: None	Nons
				battery voltage and buffer capacitor exceeds 7 V.			Voltage condition: - Onboard electrical system voltage between 9 V and 16							ECE emissions warning lamp: off     ECE electronic engine power reduction: on     CC message: on     MY11 US:     If if execution				
			The disproals function monitors the wire from	Potential problem source(i) - Valuationic trans defaults - Dieted in writing human between Valuationic relay- - and difference of the source of the sour			V Temperature condition: - None Time condition:				- Value - Defect in write	retronic fuse defective ng hamasa between Valvetroni-	Inspect Valvetronic fuse     Check wiring harness between Valvetronic     relay and DME (U_VVTR)     Check wiring harness between Valvetronic	- CC message: on MY11 US: - US emissions warning lamp: on				
MEVD17.2- BN2000 0x371A	14105	Valvetonic relay, supply voltage: Line disconnection	The dispersitiv function monitors the wine from           In Winkerscin (and the DME for powerske), and monitors the control wine to the VWM-eteroic marks for open ware and dwints is grownd.           P10E4         VVT-Relay Supply Voltage Circuit/Open	Valvetronic (VVT) Power Supply Relay - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - none	- None - None	NO	none N	- Valve	etronic fuse defective ng harress between Valvetronic relay and DME retronic relay defective - Defective DME	Check wining naminal between Valverbric relay and DME (S_VVTR)     Replace Valvetonic relay     Replace DME	US electronic engine power     reduction: on     CC message: on	none	Possible apparent symptoms: CC message, customer seeks	Breakdown notice: None	Nore
				a short circuit to ground is present.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							lamp: off - ECE electronic engine power reduction: off - CC message: none				
				Protecting productions successful - Writing harmass buttereen DME and overside spratection makey by tripation and inplaction	The last in the last		V Temperature condition: - None Time condition:				- Wring harnes protection rela	as between DME and overload- lay for ignition and injection is	Check wiring harness between DME and overload-protection relay for ignition and injection     Replace overload-protection relay for ignition and injection					
MEVD17.2- BN2000 0x371B	14107	Relay, ignition and injection systems, activation: Short circuit to earth	The disperatic function motives to the overlaad-pretection metry for training and billection.	why torightion and hydron is deficient - Dedicating typics may - Dedicating typics - And or dating typics	This fault is logged in the control module's fault memory immediately.	Terminal 15	None Other conditions:     Inne Voltage condition:	- None - None	NO	none N	·De	lay for ignition and injection is defective effect at ignition relay - Defective DME	Replace overload-protection relay for ignition and injection     Replace DME	- CC message: none	Engine continues to run and starts	Possible apparent symptoms: None	Breakdown notice: None	Norm
				a short circuit is positive is present. Puterial problem isotrophy. - Wirely parents between			Onboard electrical system     voltage between 9 V and 15     V						Production of the second	lamp: of - ECE electronic engine power reduction: off - CC message: none				
			The diagnostic function monitors the wire to the	DME and overload-protection relay for ignitization is in detective	This fault is logged in the		Temperature condition: - None Time condition: - None					as between DME and overload- lay for ignition and injection is defective	Check wiring harness between DME and overload-protection relay for ignition and injection     Replace overload-protection relay for ignition	- US emissions warning lamp: off - US electronic engine power				
MEVD17.2- BN2000 0x371C	14105	Relay, ignition and injection systems, activation: Short circuit to B+	overbad-protection relay for gration and Injection	Object at given naby     Objective DM#     The fault is recognized when	control module's fault memory immediately.	Terminal 15	Other conditions: - none	- None - None	NO	none N	- De	efect at ignition relay - Defective DME	and injection - Replace DME	reduction: off - CC message: none lamp: off - ECE electronic engine	Engine fails to start, or stalls	Possible apparent symptoms: - No longer possible to start engine	Breakdown notice: None	Norm
				an open wire is present. Potential problem source(s): - Witrop harmats between OM and overhad-president			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V Temperature condition:						- Check wiring harmass between DME and	- CC message: none				
MEVD17.3		Relay, ignition and injection systems,	The disprcisic landom monitors the wine to the overlaad-protection wiley for spation and	DME and control prediction with the Taylor that the interface in the taylor of the taylor of the - Defect all system with - Defects all system 2015	This fault is logged in the control module's fault		Temperature condition: - None Time condition: - None Other conditions:				- Witing harman protection rela	as between DME and overload- lay for ignition and injection is defective efect at ignition relay Defective DME	overload-profaction relay for ignition and injection - Replace overload-profaction relay for ignition and nijection - Replace DME	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible arrowed sur-	Breakdown notice:	
MEVD17.2- BN2000 0x371E	14110	Relay, ignition and injection systems, activation: Line disconnection	overfask-protection milly for ignition and injunction.	The fault is recognized when the calculation of milage	memory immediately.	Terminal 15	Other conditions: - none Voltage condition: - Onboard electrical system	- None - None	ND	none N	- De	elect at ignition relay - Defective DME	- Replace DME	Lamp: of - ECE electronic engine	Engine fails to start, or stalls	Possible apparent symptoms: - No longer possible to start engine	Breakdown notice: None	None
				The accusation of maging remaining in the artyles of astrong stranged units default volum.			voltage between 9 V and 15 V Temperature condition:							- CC message: none				
MEVD17.2-			The disprostic function monitors calculation of mitigas remaining in the engine of service	Potential problem source(s): - Defective of level amount - Even in equivating 2005			- None Time condition: - None Other conditions:				- Defe	fective oil level sensor	- Check operation of oil level sensor	US emissions warning lamp: off     US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice: Take vehicle to service facility within remaining	The diagnostic fault code can only be deleted once the oil level sensor is again fully
BN2000 0x375A	14170	CBS client. Output of substitute value	internal.	data	nane	Terminal 15	- none Voltage condition:     - Onboard electrical system voltage between 9 V and 16	- None - None	NO	none Y	- Emori	in calculating CBS data	Replace oil level sensor	CC message: none lamp: off - ECE electronic engine	none	Nore	milage and have oil level sensor checked.	operational.
				The fault is recognized when the availability makes implicable grant with a driving cycle.			voltage between 9 V and 15 V Temperature condition: - None Time condition:							ECE electronic engine power reduction: off - CC message: none     - US emissions warning				
MEVD17.2- BN2000 0x3758	14171	CBS client: Jump in availability	The disposite function monitors whether a jump in the availability has taken place.	Protecting proceedings and compared on the second of the s		Tarminal **	- None Other conditions:	- None	NO	none	- Ta	ampering with system r in calculating CBS data	- Constant CRX system into	- US emissions warning lamp: off     - US electronic engine power reduction: off     - CC message: none	10100	Possible apparent symptoms: Nore	Breakdown notice: None	Nova
		and any in malabery				10	- none Voltage condition:     - Onboard electrical system voltage between 9 V and 15	NOTHE			- dinor i	g tana uliti		temp: off - ECE electronic engine power reduction: off	1545W	1764 M	in the second se	10.00
				The back is detected by the instant distribution algorithms.			V Temperature condition: - None Time condition:							- CC message: none - US emissions warring lamp: off				
MEVD17.2- BN2000 0x275C	14172 DM	E, protection against tampering: Program or data manipulation detected	The diagnostic function monitors the program strains for signs of manipulation.	Potential problem source(s): - Software tampered with - Defection 2005	This fault is logged in the control module's fault memory immediately.	Terminal 15	- None Other conditions: - tions	- Nors	NO	none N		oftware tampered with - Defective DME	Only replace the DME if the fault remains present continuously or if the fault frequency is greater than 3	- US electronic engine power reduction: off     - CC message: none	Done	Possible apparent symptoms: - Breakdown in extreme cases	Breakdown notice: - none	The DME must be reprogrammed before this fault can be deleted.
				he FAHRZUGTYP (VENCLE VERSON) message hon the CAS is mixing.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							ECE electronic engine power reduction: off - CC message: on				
				Potential problem acurce(s):			V Temperature condition: - None				- Time la FAHRZEUG	imit violation transmitting GTYP (VEHICLE VERSION)		- US emissions warning lamp: off				
MEVD17.2- BN2000 0x375F	14175	Incorrect data record: CAN timeout	The dispositic function monitors the CAN bus between the CAS and DME.	- Time finit violation transmitting FAH92EUGGTYP (VENCL VERSION) message from CAS	This fault is logged in the control module's fault memory immediately.	Terminal 15	Time condition: - None Other conditions: - none	- None - None	NO	none N		ressage from CAS - Defective CAS - Defective DME	Continue fault diagnosis at the following ECU: CAS Replace CAS     Replace DME	US electronic engine power reduction: off CC message: on	Occurs when vehicle version message from CAS is missing	Possible apparent symptoms: - Possible power reduction caused by incorrect performance class	Breakdown notice: Avoid passing maneuvers as engine power reduced	is Nore
				The Bull is recognized when the software venices are not multiply compatible.			Voltage condition: - Onboard electrical system voltage between 9 V and 15 V							lamp: off - ECE electronic engine power reduction: off - CC message: on				
				Detected and the surrently	This fact in loss		Temperature condition: - None Time condition: - None				- DM	ME programming error /E encoded incomecity - Defective CAS	Continue fault diagnosis at the following ECU:     Cast Records and Continue fault diagnosis	- US emissions warning lamp: off	The reds (provinted to be	Provide and and a set of the	Branchadan of the board	
MEVD17.2- BN2000 0x3760	14175	Incorrect data record: Variant monitoring	The diagnostic function monitors the software venions in the CAS and DME.	- DUE programming and     - DUE programming and     - DUE ended connerly     - Deleter DUE     - Du	This fault is logged in the control module's fault memory immediately.	Terminal 15	None     Other conditions:     rone     Onboard electrical system	- None - None	NO	none N	- DM	Defective CAS     Defective DME	CAS Reprogram and encode DME - Replace CAS - Replace DME - Continue testing with test modules focusing or	US electronic engine power reduction: off - CC message: on lamp: off	The code (uppet/middle/lower performance class) for the CAS does not match the code in the dataset/the code in the DME.	Possible apparent symptoms: - Possible power reduction caused by incorrect performance class	Breakdown notice: Avoid passing maneuvers as engine power reduced	Is None
				the temperature of the water pumph independent in >100 "C. A power independent entered.			Onboard electrical system voltage between 9 V and 15 V Temperature condition: - None						Continue testing with test modules focusing or problems with the electric fan and the thermostat     Start engine, set heat to maximum output, allow to run for 5 minutes and the check to	lamp: off - ECE electronic engine power reduction: off - CC message: on				Observe sequence for fault rectification:
			The diagnostic function monitors the	Potential problem source(s): - Elactric tan defective - Couldri Formanial	The diagnostic fault code is logged when the fault		Time condition: - None Other conditions:				- Coolar	Sectric fan defective ant thermostat defective	determine whether the diagnostic fault code has been logged again - If the diagnostic fault code continues to	lamp: off - US electronic engine power		Possible apparent symptoms:		<ul> <li>If the pump is activated at TMOT&gt;30 °C as tester job the diagnostic fault code 0x3792 or 0x2040008, White energy and an and</li> </ul>
MEVD17.2- BN2000 0x3775	14200 Cor	olant pump, shutdown: internal temperature too high	Isemperature of the electric water pump's P15D1 Codext Pump Cu-OR, Internal Temperature electronics. Too High	detective	remains present for longer than 1 min.	none	Engine on     No BSD fault     Onboard electrical system	- None - None	Yes (2F) (55BF)	none N	- h - De	Insufficient coolant Refective water pump	appear despite correct engine temperature replace the waker pump - Continue test routine with test modules that deal with test modules that	reduction: off - CC massage: on lamp: off	none	CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	implauable' can be logged, iprore this fault and delete it -> Carry out tester job at Tmol-S0°C
				overvoltage.			voltage between 9 V and 15 V Temperature condition: - None						deal with problems related to voltage in onboar electrical system - Start engine, sat heat to maximum output, allow to run for one minute and the check to	ECE electronic engine power reduction: off CC message: on				Observe sequence for fault rectification:
MEVD17.2-			The diagnatic function monitors the power-	Potential problem socora(s) - Jump-start with 24 V hantery - Problem with electrical applications	The diagnostic fault code is logged when the fault remains present for longer		None     Time condition:     - None     Other conditions:     - Engine on				- Jamp Broble	p-start with 24 V battery eith electrical system voltage	determine whether the diagnostic fault code has been logged again - If the diagnostic fault code continues to appear despite correct electrical system voltage	US emissions warning lamp: off     US electronic engine power reduction: off		Possible apparent symptoms: CC message if engine becomes too hot,	Breakdown notice:	Observe sequence for fault rectification: - If the pump is activated at TMOT>40 °C as texter job the degressic fault code 0x3792 or 0x20AD08 Water pump: rotation speed implausible 'can be logged, ignore this fault and
BN2000 0x3779	14201 Cool	lant pump, shuldown: Overvoltage detected	In all application from the transmission of the power- supply voltage to the electric water pump. P1502 Coolerst Pump Cut-OR, Overvoltage	- Defective water pump the electric water pump descriptions	fremains present for longer than 1 min.	none	- Engine on     - No BSD fault     - Onboard electrical system     voltage between 9 V and 16	- None - None	Yes (2F) (50BF)	none N	- Proceeding with	en eechte system votege Melective water pump	appear despea correct execution system vorage replace the water pump	- CC message: on lamp: of - ECE electronic engine power reduction: off	none	CC message in engine becomes too hot, breakdown in extreme cases	None	impassade can be logged, ignore tha tast and delete it -> Cany out tester job at Tmotc90°C
				recognized seizurs. Peterseitä problem source(s) - F-roligin			V Temperature condition: - None Time condition:						- Execute operational check	- CC message: on - US emissions warning				Observe sequence for fault rectification: - If the pump is activated at TMOT>90 °C as
MEVD17.2-			The dispositic function monitors the electric	rratise/continuemination in coolant - Incernet coolant moture	The diagnostic fault code is logged when the fault remains present for longer		- None Other conditions: - Engine on		Yes (2F) (50BF) Activation			atter/contamination in coolant nect coolant mixture ratio	Check coolant mixture ratio     Check water pump and coolant for foreign     matter/objects	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: CC message if engine becomes too hot,	Breakdown notice:	tester job the disgnostic fault code 0x3792 or 0x20AD05 Water pump: rotation speed implausible' can be logged, ignore this fault and
BN2000 0x377A	14202 1	Loosant pump, shatikisen: Pump blocked	water purp for mechanical asture.	The fact is according to the fact is according	than 1 min.	0014	- No BSD fault     - Onboard electrical system     voltage between 9 V and 16     V	- nene - Nene	of 100%	Ingine N	- 04	lefective water pump	Replace water pump	ECE message: on Lamp: off - ECE electronic engine power reduction: off - CC message: on	DODR	breakdown in extreme cases	Norm	delete it -> Carry out tester job at Tmot/90°C
				The fault in exceptional when the activity was an exception of the activity of the recognizers constration.			V Temperature condition: - None Time condition: - None						Check cooling system for leaks     Refil and then bleed cooling system as     indicated	- US emissions warning				Observe sequence for fault rectification: - If the pump is activated at TMOT>90 °C as
MEVD17.2- BN2000 0x3778	14203 Co	solant pump, operation with reduced output Dry-running detected	The dispositic function monitors the electric where pump for cavitation. P15D4 Costent Pump Dry Run	Potential problem successful - Occurrent russ, taka its costing - Occurrent russ, taka its costing - Aller the costing - Aller the costing system	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	Other conditions: - Engine on	- None - Norm	Yes (2F) (508F)	none N	- Coolant to	lass, leak in cooling system in the cooling system	<ul> <li>If the fault continues to appear although the cooling system is bled and no leaks are present</li> </ul>	lamp: off - US electronic engine power reduction: off	none	Possible apparent symptoms: CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	tester job the diagnostic fault code 0x3792 or 0x20AD08 Water pump: rotation speed implausible' can be logged, ignore this fault and
00078		Dry-running detected	white pump for cavitytion. P15D4 Coolert Pump Dry Run	- Arr in the coding system The fault is recognized when the value is <10 V.			- No BSD fault     - Onboard electrical system     voltage between 9 V and 16     V				- Ar I		replace the water pump. - Continue test routine with test modules that deal with problems related to voltage in onboar electrical system	- CC message: on lamp: of - ECE electoric engine power reduction: off	(And Market	Compared and an and a second cases	Blan	delete it -> Carry out tester job at Tmok-30°C
				Between and the second s	The diagonalis fact and a		Temperature condition: - None Time condition: - None					na status y statutes'	- Start engine, set heat to maximum output,	- CC message: on				Observe sequence for fault rectification: - If the pump is activated at TMOT>90 °C as tester in the disconstric fault code Dr3722 or
MEVD17.2- BN2000 0x377C	14204 Co	olant pump, operation with reduced output Undervoltage detected	The disgnatic function monitors the power- supply rollags is the electric water pump. P15DS Coolers Pump Undervoltage	- Ramy design statu of - Ramy design statu of electrical system rollige and endormal status of electrical system rollige electrical system rollige electrical system party electrical system party electric	The diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	- None Other conditions: - Engine on - No BSD fault	- None - None	Yes (2F) (50BF)	none Y	- Battery charg - Det - De	rge status or electrical system voltage is not OK elective wiring harness Refective water pump	determine whether the disprastic tault code has been logged again - If the fault continues to appear despite correct electrical system voltage relace the water pump		none	Possible apparent symptoms: CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	Observe sequence for fault rectification: - If the jumps is activated at TMOTS-90 °C as tester job the diagnostic fault code 0x3752 or 0x20AD03 Water pump: notation speed implausible' can be logged, ignore this hauft and delete it ->- Carry out tester job at Tmots90°C
				the temperature of the university of the temperature of the university of the temperature of tempe			Onboard electrical system voltage between 9 V and 15 V						Continue testing with test modules focusing or problems with the electric fan and the thermostat	lamp: off - ECE electoric engine power reduction: off - CC message: on				
				Potential problem source(c); - Electric tan defective	The diagnostic fault code is		Temperature condition: - None Time condition: - None Other conditions:				- E3	Sectric fan defective	Start engine, set heat to maximum output, allow to run for 5 minutes and the check to determine whether the diagnostic fault code has been logged again	- US emissions warning lamp: off				Observe sequence for fault recification: - If the pump is activated at TMOT-90 °C as tester job the diagnostic fault code 0x3792 or
MEVD17.2- BN2000 0x377D	14205	olant pump, operation with reduced output: Temperature limit 1 exceeded	The diagnostic function monitors the Costant Pump Temperature Threshold 1 temperature of the water pump's electronics. P15206 Escended	- Costent hermostat detective - trautificant coctent	logged when the fault remains present for longer than 1 min.	none	- Engine on - No BSD fault	- None - None	Yes (2F) (628F)	none N	- Coolar - h	ant thermostat defective Insufficient coolant Refective water pump	If the diagnostic fault code continues to appear despite correct engine temperature replace the water pump	US electronic engine power reduction: off CC massage: on	none	Possible apparent symptoms: CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	0x20AD08 Water pump: notation speed implexable' can be logged, ignore this fault and delete it -> Carry out tester job at Tmol<20°C
				the temperature of the water pumple deformation is 123 "C. A power reduction is entered.			Onboard electrical system voltage between 9 V and 15 V Temperature condition:						Continue testing with test modules focusing or problems with the electric fan and the thermostat     Start engine, set heat to maximum output, allow to run for 5 minutes and the check to determine the the directories.	lamp: off - ECE electronic engine power reduction: off - CC message: on				
				Potential problem acurcului; - Electric tan detective	The diagnostic fault code is logged when the fault remains present for longer		- None Time condition: - None				-B	Sectric fan defective	allow to run for 5 minutes and the check to determine whether the diagnostic fault code has been logged again - If the diagnostic fault code continues to	- US emissions warning lamp: off		Possible arrowed sur-		Observe sequence for fault rectilication: - If the pump is activated at TMOT>80 °C as tester job the diagnostic fault code 0x3792 or 0x20AD08 Water pump: rotation speed
MEVD17.2- BN2000 0x377E	14206 Co	colant pump, operation with reduced output Temperature limit 2 exceeded	The diagnostic kunction monitors the Coolast Pump Temperature 3Threahold 2 temperature of the water pump's discrotorics. P1507 Exceeded	- Coder/ Hernoset     Gelective     - Insufficient coder	remains present for longer than 1 min.	none	Other conditions: - Engine on - No BSD fault	- None	Yex (2F) (50BF)	none Y	- 6008 - h - De	ant thermostat defective Insufficient coolant Refective water pump	<ul> <li>If the diagnosis fault code contributes to appear dispite correct engine temperature replace the water pump</li> </ul>	US electronic engine power reduction: off CC message: on	none	Possible apparent symptoms: CC message if engine becomes too hot, breakdown in extreme cases	Breakdown notice: None	implausible' can be logged, ignore this fault and delete it -> Carry out tester job at Tmolc90°C

	the water pump fails to respond to communications from the DME for roughly 15		Voltage condition: - Onboard electrical system voltage between 9 V and 15					lamp: off - ECE electronic engine power reduction: off - CC message: none				
	Bec.		V Temperature condition: - None				- Check fault memories of other components on BSD bus	- CC message: none				Observe sequence for fault rectification - If the pump is activated by tester job at TMOT>90 °C then the diagnostic fault code
	Defect in wing hamess     between water pump and	The diagnostic fault code is logged when the fault	Time condition: - None			Defect in wiring harmons between water pump and DME	- Check wiring harness between water pump and DME	lamp: off - US electronic engine power		Possible apparent symptoms:		0x3792 or 0x204005 twelve reason actuation
ME1017.5 4 BSD masage from electric coder party: The depends function monitors BSD bia communications with the electric water party.	- Communications problem	remains present for longer than 1 min. T	eminal 15 - none - None - None	Yes (2F) (50BF) Activation at 100%	none N	Communications problem on BSD bus     Bectric water pump defective	Conduct system test     Replace water pump	reduction: off - CC message: none	none	Breakdown in extreme cases, electric water pump atops operating - engine overheats	Breakdown notice: None	speed implausible' can be logged, ignore this fault and delete it -> Carry out tester job at Tmol<80°C
	no voltage level is present at the emergency default input terminal of the water pump.		Voltage condition: - Onboard electrical system voltage between 9 V and 16					lamp: off - ECE electronic engine power reduction: off - CC message: none				
	Potential problem source(s): - Defect in wining harness to		V Temperature conditor: - None				- Continue test routine with test modules that deal with problems related to voltage in onboard	- CC message: none     - US emissions warning				Observe sequence for fault rectification: - If the pump is activated at TMOT>90 °C as
MEVD/17.2- Codier/purp, emergency operation in port. No level at 0 the interior water purphy amergency	water pump - Communications problem on BSD bus	The diagnostic fault code is logged when the fault	Time condition: - None Other conditions:			Defect in wiring harness to water pump     Communications problem on BSD bus	electrical system - Check wiring harness between water pump and	lamp: off - US electronic engine power		Possible apparent symptoms:		texter job the disgnostic fault code 0x3732 or 0x20AD08 Water pump: rotation speed implausible' can be logged, ignore this fault and
MBIO/17.5         Codent pump, emigracy operation type. No         Novi all the electic sates pump, emigracy           202020         0.0271         1225         Velocity         backop input leminal.	- Defective water pump	remains present for longer than 1 min. T	erminal 15 - No BSD fault - None - None	NO	none N	Communications problem on boo bus     Defective water pump	- Replace water pump	reduction: off	none	None	Breakdown notice: None	delete it -> Carry out tester job at Tmot-90°C
	the specified and actual rotation speeds of the electric water pump fail to		- Onboard electrical system voltage between 9 V and 16 V				Check mixture ratio of coolant and inspect for contamination     Bleed air from cooling system	temp: off - ECE electronic engine power reduction: off				
	match. Potential problem source(s):		Temperature condition: - Engine warmed to normal temp, above 80 °C Time condition:					- CC message: on				Observe sequence for fault rectification: - If the pump is activated at TMOT>80 °C as
MEVD17.3- Coolert jump, uped devision: outlide The disgnatic function markins the relation	Ar in the cosing system     Defect in wring harness to     water pump	The diagnostic fault code is logged when the fault	Time condition: - None Other conditions: - Engine warmed to normal	Yes (2F) (50BF) Activation		- Air in the cooling system	evaluate operation with visual inspection at the expansion tank - Check wiring harness between water pump and	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	If the pump is activated at TMOT>20 °C as tester job the diagnostic fault code 0x3792 or 0x20AD08 Water pump: rotation speed implausible can be logged, ignore this fault and default is . Commend-testing in at Testing 2000
NEO/07.5 b Collet jump, speel devoluiro anale. The flagmatic horizon moltans he tablion BO2020 b.2022 i 1223 belances paped of the electric water pump.	- Defective water pump	than 1 min.	none - Engine on temperature, more than 80°C - None - Onboard electrical system voltage between 9 V and 15	at 100%	none Y	Defect in wiring harness to water pump     Defective water pump	Replace water pump	- CC message: on	none	CC message if ergine becomes too hot, breakdown in extreme cases		delete it -> Carry out tester job at Tmoi<90°C
			v					ECE emissions warning lamp: off     ECE electronic engine				
	The fault is recognized when more than 15 gear changes		Terreparture conditor: - None Time condition: - Time between the gearabit executions in at least 15 acc.					lamp: off - ECE electronic engine power reduction: off - CC message: none				
	without dutch activation are detected.		- Time between the gearshit     executors is at least 15 sec.     Other conditions:					- US emissions warning lamp: off				
MEV017.2- The diagnostic function monitors the clubsh	Potential problem source(s): - Defective wiring harness	This fault is logged in the control module's fault	Ofter conditions: - Vehicle speed: > 30 km/h - No gearahith recognition - Time betwee	een gearabilta at		- Defective wiring harness	- Check wiring harness between DME and dutch switch	US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	
N3000 0/776 1528 Oshtanda, agast Nausari mith.	- Catch switch defective, complex self-disgnosis routines in the regulator and	memory immediately.	none ohle brake pedal is -None least 15 sec. Voltage condition:	NO	none N	Chrich zwitch defective	- Replace clutch switch	CC message: none     ECE emissions warning     losses off	none	Nate	Norm	Noos
	transmitted to the DME via the BSD bus.		- Osboard electrical system voltage between 9 V and 15 V				Check positive wire for correct installation     Check ground wire for correct installation	lamp: off - ECE electronic engine power reduction: off				
	Potential problem source(x):		Temperature condition: - None Time condition:		Activation conditions: 0x4614: Alternator load	- Positive wire not correctly connected to	Check alternator     Fault frequency = 1: If the IMB is available,     perform an alternator test / If no IMB is	- CC message: on				
	- connected to battery - Ground not correctly connected	The diagnostic fault code is logged when the fault remains present for longer	- None Other conditions:		factor 0x5898: Specified alternator	battery Ground not connected	available, delete stored fault codes from control module fault memory and do not perform any other actions Fault frequency > 1: Replace	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: - Charge indicator lamp lights up	Breakdown notice:	
MEV017.5 The diagnosic function markets whether the BX0000 0x3440 (H400 Alternative, sketcale malfunction alternative is uppying power. P0020 Generator Control Circuit	- Defective regulator	femains present for longer than 1 min.	- Engine on - Alternator not fully loaded - None - None	NO	Oc5815: Battery voltage N	- Defective regulator - Alternator defect	other actions Pault frequency > 1: Replace abernator	- CC message: on	none	Charge indicator lamp lights up     Breakdown in extreme cases	Breakdown notice: None	Can occur during vehicle servicing when external power source is connected, etc.
BV000         AddR1         Hereit         PR020         Generator Control Circuit           BV0001         AddR2         Hereit         Hereit         Hereit           BV0001         AddR2         Hereit         Hereit         Hereit												
NC0172 0.0454 145												
	the actual voltage of the orboard electrical system is below the specified voltage.		Voltage condition: - Onboard electrical system		Activation conditiona:			- ECE emissions warning lamp: off				
	Potential problem source(s):		- Onboard electrical system voltage between 9 V and 15 V		De4614: Alternator load factor			lamp: off - ECE electronic engine power reduction: off				
	Positive wire not correctly connected to battery     Ground not correctly		Temperature condition: - None Time condition:		0x5030: Specified alternator voltage 0x5015: Battery voltage	- Positive wire not correctly connected to battery	Check positive wire for correct installation     Check ground wire for correct installation	- CC message: on - US emissions warning				
The diagnostic function monitors the voltage of the observation of the voltage of the observative function and compares it	connected - Defective battery - Defective regulator	The diagnostic fault code is logged when the fault remains present for longer	- None Other conditions: - Engine on		Relevant parameters: 0x5290: Specified alternator voltage	Ground not correctly connected     Defective battery     Defective regulator	Check battery     If the IMIB is available, perform an alternator test	lamp: off - US electronic engine power reduction: off		Possible apparent symptoms: - Charge indicator lamp lights up	Breakdown notice:	Can occur during vehicle servicing when
IN DOTAL AND A STRATEGY AND A STRATE	- Defective regulator - Alternator defect	than 6 min.	- Engine on - Alternation not fully loaded - None - None	NO	Ox5815: Battery voltage Y	- Alternator defect	If no IMIS is available, replace alternator	- CC message: on	Date	Breakdown in extreme cases	None	Can occur during whicle servicing when external power source is connected, etc.
BOOM         GABE         HAD           BOOM         ABE         HAD           BOOM         ABE         HAD												
	temperature measurement in the regulator and transmitted to the DME via the BSD bus.		Onloard electrical system     voltage between 9 V and 16     V					lamp: off - ECE electronic engine power reduction: off		$\top$		1
	Returned and law assesses		V Temperature condition: - None Time condition:		Activation conditiona:		- Inspect alternator for unobstructed air current	- CC message: none				If no other faults related to the alternator have been logged, do not replace the alternator.
	Alternation data     Advantage     Advantage     Advantage     Advantage     Advantage     Authors     Author	The diagnostic fault code is logged when the fault remains present for longer	Time condition: - None Cher conditions: - Engine on		0x4014: Alternator load factor 0x5098: Specified alternator	- Alternator dirty - Airflow to alternator obstructed - Thermal overload from unfavorable driving	Indext ammability of those due to an alternator     If the IMIB is available, perform an alternator     test     If no IMIB is available, delete stored fault	- US emissions warning lamp: off - US electronic engine power reduction: off		Possible aproved surveignment		If no other faults related to the alternative have been logged, do not replace the alternator. This fault only indicates that the alternator's thermal protection function has assumed active status in response to excessaive component temperature.
NEVIOT72- J B02020 0x24 146 Alternator temperature excess temperature temperat		logged when the fault remains present for longer than 1 min.	Offer conditions: - Engine on - Alternator not fully loaded - None - None	NO	0x5296: Specified alternator voltage 0x5215: Battery voltage N	Artice to alternator obstructed     Thermal overload from unfavorable driving     profile possible	test - If no IMIB is available, delete stored fault codes from control module fault memory and take no further action		Error debounce can lead to reduced availability of comfort and convenience accessories.	Possible apparent symptoms: Reduction in availability of comfort and convenience accessories	Breakdown notice: None	status in response to excessive component temperature. This is not a case of a defective component.
	unfavorable driving profile the calculated diode temperature rises above a		Otocard electrical system     voltage between 9 V and 15					lamp: off - ECE electronic engine power reduction: off - CC message: none				
	Potential problem source(x):		V Temperature condition:		Activation conditions:		- Inspect alternator for unobstructed air current					If no other faults related to the alternator have been logged, do not replace the alternator.
	Alternator diny,     Alternator diny,     Anternator diny,     Autornator distribution     obstructed	The diagnostic fault code is logged when the fault	- None Time condition: - None Other conditions:		0x4014: Alternator load factor 0x5030: Specified alternator	Alternator dirty     Airflow to alternator obstructed	If the IMIB is available, perform an alternator text     If no IMIB is available, delete stored fault	- US emissions warning lamp: off     - US electronic engine power		Possible apparent symptoms:		This fault only indicates that the alternator's fivernal protection function has assumed active ability in response to excessive component
NEIOT25 2 2000 2000 1412 Manutor, plaubility, temperature accounts of a significant of the significant of th	- Thermal overload from unfavorable driving profile	logged when the fault remains present for longer than 1 min.	Chter conditions: - Engine on - Alternator not fully loaded - None - None	NO	0x5030: Specified alternator voltage 0x5815: Battery voltage Y	- Airflow to alternator obstructed     - Thermal overload from unfavorable driving     profile possible	If no IMIB is available, delete stored fault codes from control module fault memory and take no further action	reduction: off - CC message: none	Error debounce can lead to reduced availability of comfort and converience accessories.	Possble apparent symptoms: Reduction in availability of comfort and convenience accessories	Breakdown notice: None	status in response to excessive component temperature. This is not a case of a defective component.
	The fault is recognized by complex self-diagnosis routines in the regulator and transmitted to the DME via the BSD bus.		Orboard electrical system voltage between 9 V and 15					lamp: off - ECE electronic engine power reduction: off - CC message: on				
	routines in the regulator and transmitted to the DME via the RSD hum		V Temperature condition: - None Time condition:		Actuation conditions			- CC message: on				
	Potential problem source(s):	The diagnostic fault code is	Time condition: - None Other conditions:		Activation conditions: Do/6714: Alternator load factor Do/5898: Specified alternator			- US emissions warning lamp: off				
MCI017.5 20102 1416 Atempter resolution information in the algorithm of th	Alternator drive defective     Alternator defect (bearing     derrege)	logged when the fault remains present for longer than 1 min.	Other conditions: - Engine on - Alterrator not fully loaded - None - None	NO	0x5898: Specified alternator voltage 0x5815: Battery voltage N	Alternator drive defective     Alternator defect (bearing damage)	Check alternator drive (belt)     Replace alternator	- US electronic engine power reduction: off - CC message: on	DODR	Possible apparent symptoms: - Charge indicator lamp lights up - Bosakdown in extreme cases	Breakdown notice: None	Can occur during vehicle servicing when external power apurce is connected, etc.
			Orberge Consultant     Orberge descriptional system     voltage between 9 V and 15					lamp: off - ECE electronic engine				
	The fault is recognized when the regulator code does not				Activation conditions: 0x4614: Alternator load factor			power reduction: off - CC message: none				
	match the code stored in the DME.	The diagnostic fault code is logged when the fault	Temperature conditor: - Nane Teme conditor: - Nane Other conditions:		Isclor Ox5020: Specified alternator voltage Ox5015: Battery voltage		<ul> <li>If the fault frequency is less than or equal to 3, clear the control module fault memory and do</li> </ul>	- US emissions warning lamp: off				
NECUTZS Admits control research the splate collection motion the splate collection admits and compress to the two predicts call to 2020 0x200 0x200 14420 Admits control research yes in the CMC P224 Generator Register Type Implauble	Potential problem source(s): - Incorrect regulator installed	logged when the fault remains present for longer than 1 min.	Other conditions: - Engine on - Alternator not fully loaded - None - None	NO	Ox5815: Battery voltage Relevant parameters: ident_gen Y	- Incorrect regulator installed	not take any further action - If the fault frequency is > 3, then replace the alternator	US electronic engine power reduction: off CC message: none	If detail number is identical to approved number, information through VP to EA	Poasible apparent symptoms: None	Breakdown notice: None	Non
			Otobard electrical system     voltage between 9 V and 15					lamp: off - ECE electronic engine power reduction: off - CC message: none				
	The fault is recognized when		V		Activation conditions: 0x4614: Alternator load			power reduction: off - CC message: none				
	the regulator code does not match the code stored in the DME.	The diagnostic fault code is	Temperature condition: - None Time condition: - None		0x5890: Specified alternator voltage		<ul> <li>If the fault frequency is less than or equal to 3, clear the control module fault memory and do</li> </ul>	- US emissions warning lamp: off				
NE1017.2 B0000 0.0332 1402 Generator Normed type code and compares 1with the specified value. P1244 Generator Type Inglasable	Potential problem source(s):	logged when the fault remains present for longer than 1 min.	Other conditions: - Engine on	10	0x5815: Battery voltage Relevant parameters: ident_gen Y	- Incorrect alternator installed	not take any further action - If the fault frequency is > 3, then replace the	- US electronic engine power reduction: off	If detail number is identical with approved number => Information to EA through VP Missensite environments exhibiting	Possible apparent symptoms:	Breakdown notice: None	
BN0000         Dutter         Connector: Type Implauable           B         Connector: Type Implauable         Connector: Type Implauable	Incorrect alternator installed     The fault is recognized when     multiple DME attempts to		none - Alternator not fully loaded - None - Orbitrate dearthral soutem	145	Lanc_gan	- Inconect addition in addition	aberrator	CC message: none lamp: of     ECE electronic engine	Alternator continues to supply vehicle.	Mid roughness at idle can occur		Alternator continues to supply power to vehicle.
	establish communications with the alternator remain unanswered.		Onboard electrical system     voltage between 9 V and 15     V     Temperature condition:					power reduction: off - CC message: none				
		The diagnostic fault code is	None				Check plug connection (detent) on alternator.     Check connection wire (BSD bus) between     alternator and DME.     Alternator and DME.	- US emissions warning lamp: off				Alternator usually continues to supply vehicle (when BSD wire is open). If no communications
Mtty/17.2- The diagnostic function membras	Potential problem source(a): - Defect in BSD bus line between DME and alternator	The diagnostic fault code is logged when the fault remains present for longer	Time condition: - None Other conditions:			- Defect in BSD bus line between DME and alternator	DME detects a BSD fault with the alternator (not	- US electronic engine power reduction: off		Possible apparent symptoms:	Breakdown notice:	(when BSD wire is open). If no communications are present the alternator will charge at 14.3 V after the alternator speed has risen beyond
B000         0.002         14/33         Nemator, commutation: science/address totaleses: DME and alienation:           B0000         0.0020         14/03         Immutation:         Immutation:           B0000         0.0020         14/03         Immutation:         Immutation:	- Abernator defect	than 1 min. T	erninal 15 - none - None - None	NG	nose N	- Atternator delect	in response to global BSD fault)	- CC message: none	none	Breakdown in eatreme cases	None	roughly 3300 rpm one time.
8000 009 (401							oil condition sensor. Clear diagnostic fault codes	- ECE emissions warning				
			Voltage condition: - Onboard electrical system voltage between 9 V and 15				from the ECU fault memory and then Terminal 15 office. If the diagnostic fault code is logged again this means that the oil condition sensor is	lamp: off - ECE electronic engine power reduction: off - CC message: on				
							again this means that the oil condition sensor is defective. - Reconnect all of the remaining devices on the BSD one after the other, clear the ECU fault	- CC message: on				
	The fault is recognized when communications interference is present.		V Temperature condition:									
	communications interference is present. Potential problem source(s):	The diagnostic fault code is	V Temperature condition: - None					- US emissions warning lamp: off			Breakdown notice:	
MK0072		The diagnostic fault code is logged when the fault remains present for longer than 1 min. T	V Temperature conditor. - None These condition: - Coler condition: 20ear condition: 15 - none - None - None	NO	Physical bus status Y	- One component on BSD bus is defective - Defective BSD	biol one area the orear, carear the cut rause memory, and then awards the guiden officer, continuing until the delective component is found. - If the fault is not found, check the BSD.	US emissions warning lamp: off     US electronic engine power reduction: off     CC message: on	Done	Possible apparent symptoms: - Braskdown in extreme cases	Brasidown rolto: Power management incl operating correctly, as battery arrace data cannot be receilend. No of level analised	Norm
	communications interference is present. Potential problem source(s): - One component on BSD box is defective	The diagnostic fault code is logged when the fault remains present for longer than 1 min. T	V Treesons continer. - None Other continue: - Anne Other continue: - None - None - None - None - None - None - None	NC	Physical bas status Y	- One component on BSD bas is defective - Defective BSD	continuing until the detective component is found.	- ECE emissions warming	nore	Possible apparent symptome: - Breakdown in extreme cases	Breakdown netca: Power management net operating correctly, as ballery sensor data cannot be monitoried. No of level monitories.	New
	Correnciators Interference Is present. Potential problem source(s): - One component on BSD - Database (status) - Callesting BSD - Contracticators between the ISD and DMB break down. - Potential coblem source(status)	The diagnostic fruit code is logged when the fault remains present for longer than 1 min. T	V Treesons continer. - None Other continue: - Anne Other continue: - None - None - None - None - None - None - None	NC	(Physical box status V	- One component on BSD bus is defective - Defective BSD	continuing until the detective component is found.	- ECE emissions warming	ngne	Possible apprant symptoms: - Breakdyon in extreme cases	Breakdown notice: Power management not operating connectly, an battery samer data canned be montowed. No of level anothetic.	None
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	Possible apparent symptoms: Breakdown not None None	nce: Norm
Image: Constraint of Automatic Constr	Possible apparent symptoms:	
	Picsable apparent symptom: - MSA non-statistic on Initial apparametes of fault, - No MSA task after stalling internal- combustion powerplant, - MSG (submicts lasti-stalp) Pixedion in not	
Mode         Mode <th< td=""><td>available - Automatic deactivation of Terminal 15 is not available None</td><td>tice: Norm</td></th<>	available - Automatic deactivation of Terminal 15 is not available None	tice: Norm
Instruct public brinnid		
	Possible apparent symptoms: - MSA non-stater on initial appearance of fault, - No MSA start after stalling internal- methods in the stalling internal-	
No. 10	- Construction powersplant,     - MSA (sustainatic start-stop) function is not     survaliabile     - Automatic deactivation of Terminal 15 is not     Ensuidonam incl	
Draw last grades to Termoni	available Nore	
Construction     Construction     Accession     Accession <td< td=""><td>Possible apprent symptoms: - MSA non-status on initial appearance of fault, - No MSA stat after station jeterrari- como the station powerplane,</td><td></td></td<>	Possible apprent symptoms: - MSA non-status on initial appearance of fault, - No MSA stat after station jeterrari- como the station powerplane,	
The set of		
More         Mage: Line matrix         Mage:	Automatic deactivation of Terminal 15 is not     Breakdown not     available     None	tice: Norm
84000 608/3 1673		
The fail at supported with the three states are states and the Traching or a the three states are states a		
In the second seco		
	Possible apparent symptoms: Breakdown not Steering support from power steering limited None	tice: Norm
Pictule support when     - Orbitary detailed in the picture of		
A barrier and a barr		
MC072         Image: MC073         Image: MC074          Image: MC074	Possible apparent symptoms: Breakdown not Steering support from power steering limited None	nore:

No.     No. <th></th> <th></th> <th></th> <th></th> <th>The second secon</th> <th>y d is inst</th> <th>V .</th> <th>ctrical system en 9 V and 16</th> <th></th> <th></th> <th></th> <th></th> <th>barge of - ECE disclonic engine power reduction: of - CCT message: on</th> <th></th> <th></th> <th></th>					The second secon	y d is inst	V .	ctrical system en 9 V and 16					barge of - ECE disclonic engine power reduction: of - CCT message: on			
	MEVD17.2- BN2000 0x3904	14002	The diagnostic function monitors the auxiliary battery for the electric power steering.		Potential problem source - Auditery is detective	(s): logged when the fault remains present for longer than 5 min.	Temperatar - None Time condi - None Other condi Terminal 15 - none	n: - None - None	по	one N	- Azoliary battery is defective	- Check auxiliary battery	- US emissions warning lawsp: off - US electronic engine power neductoric off	Possible apparent symptoms: Stearing support from power statering limited	Breakdown notice: None	None
					fer vortige at the lattice respectively of the lattice lease fault 24 of voter Terr 15 is on, or the latterry 19 area in iterrari vottige lease fault 35 vot	y d is simat sail d	Voltage con - Onboard e voltage beb	ition: cchical system are 9 V and 16					ECE emissions warning tamp: eff     ECE electronic angine     power reduction: off			
			The diagnostic function monitors the battery separator, the wires between vehicle battery and aucliary battery, and the charge status of the		- Defecti n plag orv hervess at babyer - Defection babyer separ - Audicor babyer separ	g for tor This fault is logged in the control module is fault	- None Time condit				separator - Defective battery separator	separator - Replace battery separator	- US emissions warning lamp: off	Possible apparent symptoms:	Breakdown notice:	
	BN2000 0x3500 MEVD17.2- BN2000 0x3500	14504	auxiliary bottery.		dischargeit, delective	memory immediately.	Terminal 15 - none	- Norme - Norme	NO r	Y	Auxiliary battery deep-discharged, detective	Check charge status of azzellary battery	- CC message: on none	Steering support from power steering limited	Norm	Nore
No         No<	BN2000 0x3908 MEVD17.2- BN2000 0x3855	15186				_										
	MEVD17.2- BN2000 0x389	15257			the electric water pump to the electric water pump to the electric water pump to the pump of to BCD to respond to BCD to	ala .	- Onboard e voltage beh	chical system en 9 V and 16					lamp: off - ECE electronic engine			
					messages from he DM Potential problem source - Datect in winny barnes water curre	(a): to	V Temperatur - None Time condit - None	condition:	Yes, 0:2F608F03 STEUERN EW			Continue test routine with test modules that deal with problems related to voltage in onboard electrical system     Check within harmess between water pump and	- US emissions warning			Observe sequence for fault rectification: - If the pump is activated at TMOT>80 °C as tester job the discreasiic task code 0x3792 or
No.         No. <td>MEVD17.2- BN2000 0x385/ MEVD17.2- BN2000 0x385/</td> <td>Coolant pump, LIN communication: Invalid 15258 message</td> <td>The diagnostic function monitors BSD bus communications with the electric water pump.</td> <td></td> <td>- Communications prob on BSD bus</td> <td>remains present for longer</td> <td>Other condi - Engine on</td> <td></td> <td>AP, activate electr. water pump (bit-serial data interface). r</td> <td>one N.</td> <td>Defect in wining hameas to water pump     Communications problem on BSD bus     Defective water pump</td> <td>DME - Conduct leater job - Replace water pump</td> <td>- US electronic engine power reduction: off</td> <td>Possible apporent symptoms: Breakdown in esteme cases, electric water pump alops operating - engine overheats</td> <td>Breakdown notice: None</td> <td>Gr20AD08 Water pump: notation speed implausible' can be logged, ignore this fault and delete it -&gt; Carry out tester job at Tmolc99°C</td>	MEVD17.2- BN2000 0x385/ MEVD17.2- BN2000 0x385/	Coolant pump, LIN communication: Invalid 15258 message	The diagnostic function monitors BSD bus communications with the electric water pump.		- Communications prob on BSD bus	remains present for longer	Other condi - Engine on		AP, activate electr. water pump (bit-serial data interface). r	one N.	Defect in wining hameas to water pump     Communications problem on BSD bus     Defective water pump	DME - Conduct leater job - Replace water pump	- US electronic engine power reduction: off	Possible apporent symptoms: Breakdown in esteme cases, electric water pump alops operating - engine overheats	Breakdown notice: None	Gr20AD08 Water pump: notation speed implausible' can be logged, ignore this fault and delete it -> Carry out tester job at Tmolc99°C
No.       N	BN2000 0x3890	15260														
					The fault is recognized v the keep-adve counter t	hen as							anno: on - ECE dictoric engine power reduction: off - CC message: none			
	MEVD17.2- BN2000 0x3BC	PT-CAN, message (ARS control unit) Alive	The diagnostic function monitors the currency of the message.		Potential problem source - Fault with transmitin		Time condi - None Other condi	n: mit	NO	AN message N	- Fault with transmitting control module	- Carry out availem analysis.	- US electronic engine power reduction: off	Possible apparent symptoms: - ARS failure	Breakdown notice: None	None
						bes	Voltage con - Onboard e voltage betw V	tion: Ichical system an 9 V and 16					lamp: off - ECE electronic engine power reduction: off			
	MEVD17.2-		The diagnostic function monitors reception of										- US emissions warning lamp: off	Possible apparent symptoms:	Breakdown notice:	
	BN2000 0x28C	15301 PT-CAN, message (ARS control unit) missing	for message.		canitol module	memory immediately.	Terminal 15 - none Voltage con - Onboard e	- None - None tion: chical system	NO	AN message N	Pault with transmitting control module	- Carry out system analysis.	- CC message: none none	- ARS failure	Norm	Non
					has a checkaum eno Potential problem source	(a). This fault is loosed in the	V Temperatur - None Time condit - None	condition:					- US emissions warning lamp: off - US electronic engine power			
	MEVD17.2- BN2000 0x3BCI	15302 PT-CAN, message (ARS control unit):Checksum Incorrect	The diagnostic function monitors the checksum of the message.		- Full with transmitter control module	g control module's fault memory immediately.	Other condi Terminal 15 - rone	na: - None - None	NO	AN message N	- Pault with transmitting control module	- Cany out system analysis.	CC message: none none	Possible apparent symptoms: - ARS failure	Breakdown notice: None	Norm
					The fault is recorprised to the massage is not recei in the specified time.		voltage beh V Temperatur - None Time condit	en v v and 16 condition: n:					- US emissions warning lamp: off			
	MEVD17.2- BN2000 0x3BC	15303 PT-CAN, message (CAS control unit) missing	The diagnostic function monitors reception of the message.		control module	memory immediately.	Terrinitie 13	- name - name	NO	AN message N	Pault with transmitting control module	- Carry out system analysis.	US electoric engine power reduction: off - CC message: none none	Possible apparent symptoms: None	Breakdown notice: None	Nora
No       No <th< td=""><td></td><td></td><td></td><td></td><td>the keep-silve counter t not time the message of message checksom</td><td>as the</td><td>voltage betv V Terrerena v</td><td>en 9 V and 16</td><td></td><td></td><td></td><td></td><td>power reduction: off - CC measure: none - US emissions warning</td><td></td><td></td><td></td></th<>					the keep-silve counter t not time the message of message checksom	as the	voltage betv V Terrerena v	en 9 V and 16					power reduction: off - CC measure: none - US emissions warning			
	MEVD17.2- BN2000 0x3BCI	PT-CAN, message (CAS control unit):Checkaum 15304 wrong' alive check	The diagnostic function monitors the currency and the checksum of the message.		Potential problem source - Fault with transmitte	control module's fault	Terminal 15 - none	- None - None	NO	AN message N	- Fault with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none none	Possible apparent symptoms: Nore	Breakdown notice: None	None
Normation     Norma					The Sull in recognized to the manage is not need	han vid										
	MEVD17.2-		The disgnastic function manifors reception of		Potential problem source - Fault with transmittin		- None Time condi - None Other condi	n: 218: Name Name					- US electronic engine power reduction: off	Possible apparent symptoms: - Brief rpm drop when automatic climate control in the	Breakdown notice:	
No.     No. <td></td> <td></td> <td>are considered.</td> <td></td> <td>The fault is recognized to the lower attraction provides</td> <td>**</td> <td>voltage beh</td> <td>en 9 V and 16</td> <td>100</td> <td></td> <td>- Pada yan da tarian gila tari nagan</td> <td>· Carry On Ayean anaryan.</td> <td>lamp: off - ECE electronic engine power reduction: off</td> <td>in addressed as fam</td> <td>000.00</td> <td>THAT IS</td>			are considered.		The fault is recognized to the lower attraction provides	**	voltage beh	en 9 V and 16	100		- Pada yan da tarian gila tari nagan	· Carry On Ayean anaryan.	lamp: off - ECE electronic engine power reduction: off	in addressed as fam	000.00	THAT IS
No.         No. <td>MUDITS</td> <td></td> <td>The descent is been as the second</td> <td></td> <td></td> <td></td> <td>Temperatur - None Time condit - None</td> <td>condition:</td> <td></td> <td></td> <td></td> <td></td> <td>- US emissions warning lamp: off</td> <td></td> <td>Providence and an</td> <td></td>	MUDITS		The descent is been as the second				Temperatur - None Time condit - None	condition:					- US emissions warning lamp: off		Providence and an	
	BN2000 0x3BCI	15309 unitAbe check	of the message.		cartel module	memory immediately.	Voltage con - Onboard e	tion: ictrical system	NO r	one N	- Fault with transmitting control module	- Cany out system analysis.	- CC message: none none	Non	None	Non
					the message is not receiption of the specified time.	The diamontic field code is							- US emissions warning lamp: off			
	MEVD17.2- BN2000 0x3BCE	PT-CAN, message (instrument panel control 15310 unit) missing	The diagnostic function monitors reception of the message.		- Paud with Yanamitia control module	g remains present for longer than 2 min.	Terminal 15 - none	- None - None	NO	one N	- Fault with transmitting control module	- Carry out system analysis.	reduction: off - CC message: none none	Posable apparent symptoms: None	Breakdown notice: None	Norm
No.       N					The fault is recognized or the status of the seminative warring jump does not or the requested status	hen 18 Mdh	Terroration	condition:					- US emissions warning			
	MEVD17.2- BN2000 0x3BCF				control module	memory immediately.	Terminal 15 - none	- None - None	NO r	one N	- Fault with transmitting control module	- Carry out system analysis.	US electronic engine power reduction: off CC message: none Done none	Possible apparent symptoms: None	Breakdown notice: None	None
					the keep-silve counter to not tread the message the message checksure	hen as nd is	- Onboard e voltage beh V Temperatur - Nove	condition:					power reduction: off - CC message: none			
N         N	MEVD17.2- BN2000 0x38D0	PT-CAN, message (request torque DSC, 086): 15312 checkeum wrong/ alive check	The diagnostic function monitors the currency and the checksum of the message.		Potential problem source - Fault with transmittin	(x): This fault is logged in the control module's fault memory immediately.			NO 0	AN message N	- Fault with transmitting control module	- Carry out system analysis.		Possible apparent symptoms: - DSC falues	Breakdown notice: None	Norm
					The fault is recognized the measure is not meri	ban wr	Voltage con - Ontocard e voltage beh V Termentin	tion: cricial system er 3 V and 16 crontition:								
	MEVD17.2-	PT-CAN, no message (request longue DSC,	The disgnastic function manifors reception of		Potential problem asuro	(a). This fault is looped in the	- NOTE Other condi	nx .					- US electronic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
	under		an innangt.				Voltage con - Onboard e voltage beh	tion: chical system are 9 V and 16			- Fields was used working control module	unity this system all By 202.	ECE Wechanic engine power reduction: off - CCC message: more	Manu Laborat	record	THAT
	MEVD17.2-		The diagnostic function monitors reception of				Temperatur - None Time condi - None Other revoil	n:					- US emissions warning lamp: off	Possible apparent symptoms:	Breakdown notice:	
N       N	BN2000 0x3803	15314 PT-CAN, message (wheel speed, GCE); missing	be message.	U116D Lost Communication With Wheel Speed	Communication Wheel Speed control module The fault is recognized w	memory immediately.			NO	AN mesange N	Pault with insumiting control module	- Cany out system analysis.	- CC message: none none	Noon	Norm	Ncos
					incorrect. Potential problem source	(a). This fault is loosed in the	V Temperatur - None Time condit - None	condition:					- US emissions warning lamp: off - US electronic engine power			
A         A         B         A         B         A         B         Control (Control (Contro) (Contro) (Control (Control (Control (Control (Contro) (Control (	MEVD17.2- BN2000 0x38D	PT-CAN, message (transmisaion data 4, 10A): 15315 Checksom wrong/alve check	The diagnostic function monitors the currency and the checksum of the message.		- Fuel the manifest onto i rodule	control module's fault memory immediately.	Terminal 15 - none	- None - None	NO	AN message N.	- Pault with transmitting control module	- Cany out system analysis.	reduction: off - CC message: none none	Possible apparent symptoms: None	Breakdown notice: None	None
Name         Name <th< td=""><td></td><td></td><td></td><td></td><td>The fault is recorprised to the massage is not recei in the specified time.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- US emissions warning lamp: off</td><td></td><td></td><td></td></th<>					The fault is recorprised to the massage is not recei in the specified time.								- US emissions warning lamp: off			
No.000         No.000<	MEVD17.2- BN2000 0x38D	PT-CAN, message (transmission data 4, 10A): 15316 missing	The diagnostic function monitors reception of the message.		Potential problem source - Fault with transmitte control module	(x): This fault is logged in the control module's fault memory immediately.			NO	AN message N	Pault with transmitting control module	- Carry out system analysis.	US electoric engine power reduction: off - CC message: none none	Possible apparent symptoms: None	Breakdown notice: None	Norm
D0200         0.010         VID         Lel Commutation TB-DCC Stata         Option         DEC base         Nome					The fault is recognized in the measure in the measure in the free second strength in the free second strength in the second strength in the second strength se	hen ved							power reduction: off - CC message: none			
Nature     - Observations     - Observations     - Accession     - A	MEVD17.2- BN2000 0x38D	15317 PT-CAN, measage (status DSC, 19E) misaing	The diagnostic function monitors reception of the message.	U1125 Lott Communication With DBC Status	Potential problem source - Fault with transmitter Communication DSC Status control module	(x): This fault is logged in the control module's fault memory immediately.	Terminal 15 - none	- None - None	NO	AN message N	- Fault with transmitting control module	- Cany out system analysis.	reduction off - CC message: none none	Possible apparent symptoms: None	Breakdown notice: None	None
icanal Now					The fault is recognized the keep-time counter not timed the message the message ducksure	hen as nd a	Voltage con - Onboard e voltage beh V Temperatur	ctricul system en 9 V and 16 condition								
L0 (27)         0.000         <	MEVD17.2- BN2000 0x3RPA	PT-CAN, message (rehicle speed, 1A0): 15318 checkam woon/alive check	The diagnostic function monitors the currency and the checksum of the message.	U11CA Message Monitoring Speed Alve Chack/Chack Sum Error	Potential problem source - Fault with transmittin		- None Time condit - None Other condit Terminal 15 - none	n: ani: - None - None	NO	AN messageN	- Fault with transmitting control model-	- Carry out system analysis.	- US electronic engine power reduction: off	Possible apparent symptoms: Nore	Breakdown notice: Norw	Norm
			and the second			hen	Voltage con - Onboard e voltage beh	tion: chical system en 9 V and 16					lamp: off			
VE072         The sparse business markets	MEVD17.2-		The diagnostic function monitors reception of		Potential problem source - Fault with transmittle	(s): This fault is logged in the control module's fault	Temperatur - None Time condi - None Other condi	n: ani:					- US emissions warring lawp: off - US electonic engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
2000 $1000$ $10000$ $10000$ $100$	BN2000 0x28D	15319 PT-CAN, no message (vehicle speed, 140):	the message.	U1118 Los Communication With Speed	Communication Saved control module	memory immediately.	Voltage con - Onboard e	tion: chical system	NO	AN message N	Fault with transmitting control module	- Carry out system analysis.		None	Norm	Non
In finanzaja A in finanzaja (an finanza) in finanzaja (an finan					Potential problem source	(s): This fault is logged in the	V Temperatur - None Time condit - None	condition:					- US emissions warning lamp: off - US electronic engine power			
EXCOLD 3         0         P1C4A, the nearing out includes table         Other confirms         0	MEVD17.2- BN2000 0x38D0	PT-CAN, no message (transmission data 2, 15320 1A2):	The diagnostic function monitors reception of the message.		- Fault with transmitte control module	g control module's fault memory immediately.	Cther condi Terminal 15 - none	- None - None	NO	AN message N	Fault with transmitting control module	- Carry out system analysis.		Possible apparent symptoms: None	Breakdown notice: None	None

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   |   |   |   |  | | | | |
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 15  |   
  |          |  |   |   |  | lamp: off<br>- ECE electronic engine<br>power reduction: off<br>- CC message: none   |  |  |  
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   |   |   |   | The fault is recognize<br>the measuring is not re<br>in the specified to   | eived<br>e.  
   |              | ľ.   |   
  |          |  |   |   |  | - US emissions warning<br>lamp: off  |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x3  
   
   | 809 15321   | The disgnatic backion monitors ecoption of<br>PF-CAN, message (DKD status, 370) missing for message.  |   | Potential problem ao<br>- Fault with transm<br>control model   | ce(x): logged when the fault<br>remains present for longer   
   | Terminal 15  | None     None     Other condition:     Other conditions:     - scree   | ne - None   
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Carry out avalem analysis.   | lamp: off<br>- US electronic engine power<br>reduction: off<br>- CC message: none  | Only in vehicles with throttle valve sensor                  | Possible apparent symptoms:<br>None  | Breakdown notice:<br>None  
   | None                                    |
|  
   
   |   |   |   | The fault is recognize   | when   
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 15  |   
  |          |  |   |   |  | - ECE emissions warning  |  |  |  
   |   |
|  
   
   |   |   |   | the keep-silve count<br>not timed the mease<br>the measage chuck<br>incorrect.   | has<br>and<br>mis  
   |              | V<br>Temperature continue  |   
  |          |  |   |   |  | power reduction: off<br>- CC message: none<br>MY11 US:<br>- US emissions serving   |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x3  
   
   |   | PT-CAN, ressage (assemblished data 3, 201): The dispositio function motions for commercy  |   | Potential problem so<br>- Fault with transm  | ce(x): This fault is logged in the<br>control module's fault   
   |              | - None<br>Time condition:<br>- None<br>Other conditions:   |   
  |          |  |   |   |  | amp: on<br>- CCE which onic engine<br>power reduction: off<br>- CC message: none<br>MY11 US:<br>- US enlastions warning<br>lamp: on<br>- US existing power<br>reduction: off<br>- CC message: on   |  | Possible apparent symptoms:  | Breakdown notice:  
   |   |
| BN2000 0x3   
   
   | BDA 15322   | Z dhidaum woog'allw dhick and the dhidaum of the message.   |   | control modul  | memory immediately.  
   | Terminal 15  | Voltage condition:     Onlowed electrical system   | na - Nona   
  | NO       | CAN message  | N | Fault with transmitting control module  | - Cany out system analysis.  | CC massage: on     CC emissions warning     lamp: of     CC electronic envine  | Inly active with throttle-valve sensor vehicles              | None   | None   
   | None                                    |
|  
   
   |   |   |   | The fault is recognize<br>the message is not n<br>in the specified   | when<br>eived  
   |              | Onboard electrical system     voltage between 9 V and 16     V     Temperature condition:  |   
  |          |  |   |   |  | ECE emissions warning<br>lamp: off     ECE electronic engine<br>power reduction: off     CC message: none     MY11 UE:     Iff   |  |  |  
   |   |
| MEVD17.2-  
   
   |   | PT-CAN, no message (transmission data 3, The diagnostic function monitors reception of  |   | Potential problem so   | celai: This fault is looped in the   
   |              | - None<br>Time condition:<br>- None<br>Other conditions:   |   
  |          |  |   |   |  | - US electronic engine power   |  | Possible apparent symptoms:  | Breakdown notice:  
   |   |
| BN2000 0x3   
   
   | 806 15323   | 3 201): bs message.   |   | - Fault with transm<br>control modul   |  
   | Terminal 15  | - none   | ne - None   
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Cany out system analysis.  | reduction: off<br>- CC message: on<br>- ECE emissions warning<br>lamp: off   | hiy active with throttle-valve sensor vehicles               | None   | Norm   
   | Nore                                    |
|  
   
   |   |   |   | The fault is recognize<br>the keep-alve court<br>not timed the resain<br>the meaning checks<br>incorrect.  | tas<br>and   
   |              | Onboard electrical system<br>voltage between 9 V and 15<br>V<br>Temperature condition:   |   
  |          |  |   |   |  | - ECE electronic engine<br>power reduction: off<br>- CC message: none<br>MY11 US:  |  |  |  
   |   |
| MEVD17.2   
   
   |   | PT-CAR, massage (inicitoric transmission<br>control loops request, BS) chodium wrong<br>4 silve check. The diagonalic function monitors the currency<br>and the dheakaam of the massage. UTICS  | Message Monitoring Tossue Request ETC Check   | incorrect.<br>Potential problem so<br>- Pault with transm  |  
   |              | - None<br>Time condition:<br>- None<br>Other conditions:   |   
  |          |  |   |   |  | - US emissions warning<br>amp: on<br>- US electronic engine power<br>reduction: off<br>- CC message: on  |  | Possible accorent symptoms:  | Breakdown notice:  
   |   |
| BN2000 0x3   
   
   | BDC 15324   | 4 altre check and the checkaum of the message. U1109  | Message Monitoring Tonzue Request ETC Check<br>Sum EmotiAlive Check Communication   | Torque Request AT control modul  | memory immediately.  
   | Terminal 15  | - none -   | ne - None   
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Cany out system analysis.  | - CC message: on     - ECE emissions warning     lamp: off   | Only in vehicles with EGS                                    | Possible apparent symptoms:<br>EGS imp-home program  | None   
   | None                                    |
|  
   
   |   |   |   | The fault is recognize<br>the massage is not r<br>in the specified to  | when   
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 16<br>V<br>Temperature condition:   |   
  |          |  |   |   |  | ECE emissions warring<br>lamp: off<br>ECE electronic engine<br>power induction: off<br>- CC message: none<br>MY11 US:<br>IIS enrining  |  |  |  
   |   |
| MEDITE   
   
   |   | PT-CAN, no message (electronic transmission The dispositic function monitors reception of   |   | in the specified ti<br>Potential problem so<br>- Fault with teamer   | ce(s): This fault is logged in the   
   |              | None     Time condition:         -None         Other conditions:   |   
  |          |  |   |   |  | - US emissions warning<br>lamp: on     - US electronic engine power<br>reduction: off  |  | Possible apparent symptoms:  | Breakdown notice:  
   |   |
| BN2000 0x3   
   
   | 800 15325   | control langue request, BD() the message. U110F   | Lost Communication With Torque Request ETC Communication  | Torque Request AT control modul  | memory immediately.  
   | Terminal 15  | none     voltage condition:     Onboard electrical system  | ne - None   
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Cany out system analysis.  | CC massage: on     lamp: off     ECE electronic engine   | Only in vehicles with EGS                                    | EGS imp-home program   | None   
   | None                                    |
|  
   
   |   |   |   | the keep-alive court<br>not tread the result<br>the results of the result<br>incorrect.  | thas<br>and<br>mis   
   |              | Voltage between 9 V and 15<br>V<br>Temperature condition   |   
  |          |  |   |   |  | power reduction: off<br>- CC measage: none   |  |  |  
   |   |
| MEVD17.2-  
   
   |   | PT-CAN, message (herin-dutic) gearbox torque The diagnostic function monitors the currency  |   | Potential problem so<br>- Fault with transm  | ce(a): This fault is logged in the<br>control module's fault   
   |              | - None<br>Time condition:<br>- None<br>Other conditions:   |   
  |          |  |   |   |  | - US emissions warning<br>lamp: off<br>- US electronic engine power<br>reduction: off  |  | Possible apparent symptoms:  | Breakdown notice:  
   |   |
| BN2000 0x3   
   
   | BOE 15325   | 6 reguest, 201), checksum verorgi ables check, and the checksum of the message, '   |   | control model  | memory immediately.  
   | Terminal 15  | - none     - Voltage condition:     -     Onboard electrical system     voltage between 9 V and 15   | ns - Nons   
  | NO       | CAN message  | N | Fault with transmitting control module  | - Cany out system analysis.  | CC message: none     lamp: off     ECE electoric engine     power reduction: off     - CC message: none  | Only in vehicles with throttle valve sensor                  | Norm   | Norm   
   | None                                    |
|  
   
   |   |   |   | The fault is recognize<br>the measuring is not re<br>in the specified to   | uhan<br>alved<br>a.  
   |              | voltage between 9 V and 15<br>V<br>Temperature condition:<br>- None<br>Time condition:   |   
  |          |  |   |   |  | - US emissions warning   |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x3  
   
   | 80# 15327   | PT-CAN, no message (htm-calch genetox The disgnatic function monitors reception of<br>torque request, 88): The disgnatic function message.  |   | Potential problem so<br>- Fault with transm<br>control model   | ce(a) This fault is logged in the<br>control module's fault  
   | Terminal 15  | - None<br>Other conditions:<br>- none -  | ne - None   
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Cany out system analysis.  | lamp: off<br>- US electronic engine power<br>reduction: off<br>- CC message: none  | Only in vehicles with throtile valve sensor                  | Possible apparent symptoms:<br>None  | Breakdown notice:<br>None  
   | Nora                                    |
|  
   
   |   |   |   |  | | | | |
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 16  |   
  |          |  |   |   |  | ECC Initiality: Inche<br>Ismp: off<br>- ECE electronic engine<br>power reduction: off<br>- CC message: none  |  |  |  
   |   |
|  
   
   |   |   |   | The fact is assigned<br>the same solution count<br>not time the mean<br>the meanage theory<br>incorrect.   | and<br>mis   
   |              | V<br>Temperature condition:<br>- None  |   
  |          |  |   |   |  | - CC message: none     - US emissions warning     lamp: off  |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x2  
   
   | 860 15328   | PT-CAN, message (gastos data, BA).<br>Dedisorm scorp: (bit duck, and the dedisorm of the message.   |   | Potential problem so<br>- Fault with transm<br>control modul   | ce(x): This fault is logged in the<br>control module's fault   
   | Terminal 15  | Time condition:<br>- None<br>Other conditions:<br>- FIDTR -  | ns - Nicos  
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Carry out ayatem analysis.   | US electronic engine power<br>reduction: off<br><u>     - CC message: none</u>   | 0208   | Possible apparent symptoms:<br>None  | Breakdown notice:<br>Norw  
   | Non                                     |
|  
   
   |   |   |   |  | | | | |
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 15<br>V   |   
  |          |  | T |   |  | Lamp: off<br>- ECE electronic engine<br>power reduction: off<br>- CC message: none   |  |  |  
   |   |
|  
   
   |   | The discretic function monitors the wire for  |   | The fault is recognize<br>no voltage is pres   | when t   
   |              | V<br>Temperature condition:<br>- None<br>Time condition:<br>- None   |   
  |          |  |   |   |  | - CC message: none     - US emissions warning     lamp: off     - US electonic engine power     reduction: off   |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x3  
   
   | BE1 15329   | The diagonatic hunclion motions the wire for<br>voltage supply of Terminal NO, 3 and Terminal<br>PT-CAN, message (gearbox data, BA); missing K, BT_3.   |   | Potential problem so<br>- Wiring hermass dat   | This fault is logged in the<br>ce(s): control module's fault<br>dive memory immediately.   
   |              | Other conditions:  | ne - None   
  | NO       | CAN message  | N | - Wring harness defective   | Check wiring harmass     Replace PDM (power supply module)     Replace DME   | - CC message: none   | none   | Possible apparent symptoms:<br>None  | Breakdown notice:<br>None  
   | Nore                                    |
|  
   
   |   |   |   | The fault is recognize   | when   
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 15<br>V   |   
  |          |  |   |   |  | Lamp: off<br>- ECE electronic engine<br>power reduction: off<br>- CC message: none   |  |  |  
   |   |
|  
   
   |   |   |   | The fault is recognize<br>the level of the inter-<br>tore is implausi<br>Potential problem so  | | | | |
   |              | Temperature condition:<br>- None<br>Time condition:<br>- None  |   
  |          |  |   |   |  | - US emissions warning<br>lamp: off<br>- US electronic engine power  |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x2<br>MEVD17.2-   
   
   | 8E2 15330   | PT-CAN, massage (bein-dutor speed The diagnostic function moniton the requested<br>control, BD) monitoring intervention intervention focus of the thredie valve sampor  |   | - Fault with taraam<br>control modul   | ing control module's fault   
   | Terminal 15  | Other conditions:  | ne - None   
  | NO       | FR message   | N | - Fault with transmitting control module  | - Cany out system analysis.  | reduction: off<br>- CC message: none   | none   | Possible apparent symptoms:<br>None  | Breakdown notice:<br>None  
   | None                                    |
| BN2000 0x3   
   
   | 867 15335   | 8   |   | The fault is recognized  | when   
   |              | Voltage condition:<br>- Onboard electrical system<br>voltage between 9 V and 15  |   
  |          |  |   |   |  | lamp: off<br>- ECE electronic engine<br>power reduction: off<br>- CC message: none   |  |  |  
   |   |
|  
   
   |   |   |   | the keep-silve count<br>not timed the mease<br>the measage chuck<br>incorrect.   | and<br>m is  
   |              | V<br>Temperature continue  |   
  |          |  |   |   |  |  |  |  |  
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   |              |  |   
  |          |  |   |   |  |  |  |  |  
   |   |
| MEVD17.2-<br>BN2000 0x3  
   
   | BEC 15340   | PT-CAN, message (oxise control operation,<br>1941: Checksum strood allies check and the checksum of the message.  |   |  |  
   | Terminal 15  | None Time condition:     None Other conditions:     - none   | ne - None   
  | NO       | CAN message  | N | - Fault with transmitting control module  | - Canv out avatem analysis.  | - US emissions warning<br>lamp: off     - US electronic engine power<br>reduction: off     - CC message: none  | none   | Possible apparent symptoms:<br>Failure of internal DME cruise control  | Breakdown notice:<br>None  
   | Norm                                    |
| MEVD17.2-<br>BN2000 0x3  | BEC 15340   | PT-CAN, message (note control operation,<br>196), Cluckson worgs alive divide<br>1960, Cluckson worgs alive divide |   | Potential problem so<br>- Yaut with transm<br>control modul  | ce(x): This fault is logged in the control module's fault memory immediately.  | Terminal 15  | None     Other conditions:     none     voltage condition:     Onboard electrical system     voltage between 9 V and 16  | ns - None  | NO       | CAN message  | N | Fault with transmitting control module  | - Carry out system analysis.   | US electronic engine power<br>reduction: off     CC message: none  | none   | Possible apparent symptoms:<br>Failure of internal DME cruise control  | Breakdown notice:<br>None  | None                                    |
| MEVD17.2-<br>BN2000 0x3  
   
   | BEC 15340   | PFCRA mesage loades control question. The dispersive function monitors the convery<br>19() Oxection were fulle discol.  |   |  | ce(s): This fault is logged in the control module's fault memory immediately.  
   | Terminal 15  | - None<br>Other conditions:<br>- none<br>- none<br>- Onboard electrical system<br>voltage between 9 V and 95<br>V<br>Temperature condition:<br>- None  | ns - None   
  | NC       | CAN message  | N | Fault with transmitting control module  | - Carry cut system analysis.   | US elicitoric ergine power<br>reductor: off<br>- CC message: none<br>lamp: off<br>- ECE electoric ergine<br>power reduction: off<br>- CC message: none<br>- US emissions warning   | none   | Posable apparent symptoma:<br>Failum of interval DME crusies control   | Breakdown notice:<br>None  
   | Nona                                    |
| MEVD17.2-  
   
   | BEC 15340   | PFCAX message (volume carted queetines. The diagnostic bucktor markets assigned at  |   | Potential problem to<br>- Fault with Statem<br>control modul<br>The Budit a recognize  | oolji): This fault is logged in the control module's fault memory immediately.   
   | Terminal 15  | None     Other conditions:     none     voltage condition:     Onboard electrical system     voltage between 9 V and 16  | ns - Nons   
  | NO       | CAN message  | N | Pauli with transmitting control module     Pauli with transmitting control module   | Comy out system analysis.     Comy out system analysis.     Contro out availem analysis.   | US electronic engine power<br>reduction: of<br>- CC message: none<br>lamp: off<br>- ECE electronic engine<br>power reduction: off<br>- CC message: none  | 757#   | Pusable apparent symptome.<br>Palvars of internal DME cruate control<br>Pleasable apparent symptome.<br>Palvas of internal DME cruate control  | Breakdown nolice:<br>Norw<br>Breakdown nolice:<br>Nora   
   | Nora<br>Nora                            |
MEVD17.2- BN2000 0x3 MEVD17.2- BN2000 0x3 MEVD17.2- BN2000 0x3 BF0200 0x3 BF0200 0x3 BF0200 0x3 BF020172.3- BF020172.3- BF02017	BF0 15344 BF1 15345	PT-COL manage licites control question, The dispeticle function monitors stupping of IDS analogy (Control of Control of		Passed problem is - First with thready of the second The fault is receptor in a second of the in the second of the passed problem is	ce(i): This fault is togged in the control module's fault memory immediately.	Territed 15	None     Other conditions:     - rone     - rone     - contains:     - contains:     - contains:     - Contoard elactical system voltage between 9 V and % V V Temperature condition:     -None Time condition:	ns - Norm - Norm - Norm - Norm	ND ND	CAN massage	N	<ul> <li>Pault with traventiling control module</li> <li>Pault with traventiling control module</li> </ul>	Cany set system analysis.     Cany set system analysis.     Cany set system analysis.	- US electronic engine power reduction: off - CC massage: none lamp: off - ECE electronic engine power reduction: off - CC massage: none - US emissions warning lamp: off - US electronic engine power reduction: off	1078 1078	Possible apparent symptoms:	Nora	None
MEVD17.2-	BF0 15344 BF1 15345	PT-COL manage licites control question, The dispeticle function monitors stupping of IDS analogy (Control of Control of		Passed problem is - First with thready of the second The fault is receptor in a second of the in the second of the passed problem is	ce(i): This fault is togged in the control module's fault memory immediately.	Terminal 15	None     Other condition:	n	30 30	CAN message	N	. Failt with severalizing control module	- Gary od spilen andjels.	- US electronic engine power reduction: off - CC massage: none lamp: off - ECE electronic engine power reduction: off - CC massage: none - US emissions warning lamp: off - US electronic engine power reduction: off	.008 .005	Possible apparent symptoms:	Nora	Nos
MEVD17.2- BN2000 0x3 MEVD17.2- BN2000 0x3 MEVD17.2- BN2000 0x3 BF0200 0x3 BF0200 0x3 BF0200 0x3 BF020172.3- BF020172.3- BF02017	BF0 15344 BF1 15345	PT-COL manage licites control question, The dispeticle function monitors stupping of IDS analogy (Control of Control of		Passed problem is - First with thready of the second The fault is receptor in a second of the in the second of the passed problem is	onch) The tank to logged a the memory increaded to the memory increaded by when onch is the memory increaded by when increases increase	Territol 15	None more contained of the second of th	n - Nre Nor 	N0	ON monge	N	. Fail with traverting control module	- Carry and system services.	JGS address experies and a set of the s	.000 .000	Possible apparent symptoms:	Nora	Non
MENOTI 2 BIGGIO BIGGIO BIGGIO DE DE D	15344 15345 1874 15345	PCOX manage looks control operation. The degradic function motion sampless of Information		Predict allow of the base of the second of t	encorp The back is begind in the second seco	Territol 15	long	n - hrv 0 - hrv 	10	CM resup CM resum	N	- Pail vit sees the results	- Carry and system services	JGS advances of a version of version of a version of v	.000	Paulo agene e popune Pale al trans 200 colar orbit	Brashleer ration	Nove Nove 
MENOT7.5 BIODIO 00 MENOT2.5 MENOT2.5 MENOT2.5 BIODIO 02 BIODIO 02	15344 15345 1874 15345	PCOX manage looks control operation. The degradic function motion sampless of Information		Predict pattern of the second	oncol         The lack lack goal of the second	Territol 15	- Iona Jornet	n	NC	OM mesop OM mesop abas, yengingermake additi is degre	N	. Fail with towarding control models	Carry of splith and you     Carry of splith and you     Carry of splith and you	- USE advances or of a loss of the loss of	1000 2000 This is only astrated billioning production.	Pauluk report yaptom Palen di mena (DB, ania const	Brashleer ration	Nore Nore 
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MENO 17.2 BR0000 50 BR0000 50 REVORT 2 BR0000 50 BR0000 50 BR0000 BR0000 50 BR0000 50 BR0000 BR0000 50 BR0000 BR0	15344 15345 1874 15345	PCOX manage looks control operation. The degradic function motion sampless of Information		Predict pattern of the second	enongia Terretaria Segura de la	Tembra 15	Anna Anna Anna Anna Anna Anna Anna Anna	а Лач лания Лания		CAI resup COI manage	N	- Pail vit sees the results	Carry out spaties analyse     Carry out spaties analyse	1.05 Borne straps reads 1.05 Borne at the straps of the s	. 1092 	Paulo agene e popune Pale al trans 200 colar orbit	Brashleer ration	Nore
MENOT7.2 BODD 0 BODD	15344 15345 1874 15345	PFCON manage toulous control queetion.     The disposite bestion monitors samples of     Decomposite		Predict attemps of the state of	endor en	Tembra 15	Anna Anna Anna Anna Anna Anna Anna Anna	n			N	. Fail all searching point study.	Carry act system analysis     Carry act system analysis	1.05 Borne service service 1.05 Borne affects 1.05 Borne affects	non  non  non  non  non  non  non  non	Paulo appror properso Paulo appror properso Paulo appror properso Spen and appror properso Spen and appror properso Paulo approve properso Paulo	Bratalana nata	Nore
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		Voltage condition: - Onboard electrical system voltage between 9 V and 15			Israp: off - ECE electronic engine poser reduction: off - ECC massage new			
	The facility is recognized when the message in our received in the specified irres.	v			- CC message: none     - US emissions warning     lamp: off     - US electronic enclose power			
MEV.017.5 - BICCOD GLCDDS 23229 PT-CMR message [lpt status, 214] mising the message.	The diagnostic full code is Potential problem source(r). Togget when the full - Full with homenitizing remain present for torget control module. Plan 2 min.	- Alone - None Time condition: - None Other conditions: Terminal 15 - none	- None NO CAN masage	N - Fault with transmitting control module	reduction: off     Cany out system analysis CC message: none     none	Possible apparent symptoms: None	Breakdown notice: None	None
		Voltage condition: - Onboard electrical system voltage between 9 V and 16 			lamp: off - CEC electronic engine pomer reduction: off - CC message: nome			
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MEV/017.2- B00000 DxC020 5002 PTCAN no message lineir statu. 254 for message.	Packaning problem sourced by Packaning problem sourced by Packa with transmitting constructionable and the packaning of the packaning packaning problem sources packaning packaning problem sources packaning packaning packanin		-None NO CAN message	N - Fault with transmitting control module	- US electronic engine power     reductiver (any out system analysis.     - Compositive composition of the system of the sy	Possible apparent symptoms: None	Breakdown notice: None	Non
		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V			lamp: df - ECE electoric region power reduction; df - CC message: none			
	The fault in recognized when the measure is not recover in the specified time. The diagnostic fault code is	Temperature condition:			-UL message: none -US emissions werning bron, off			
MEVD17.5 - B02020 5x2025 52025 PT-CHL to reassage (invides. 2FE) The dagratic function nonlinear scopion of the message.	Patientia jacobien succed) Patientia jacobien succedo - Paula with traveniting construit module Patientia processione and patiential Patiential patiential P	Terminal 15 - none	- None NO CAN message	N - Fault with transmitting control module	- Cany out avatem analysis.     - Cany out avatem analysis.     - CC message: none     none	Possible apparent symptoms: None	Breakdown notice: Norw	None
	The fault is recognized when the activator for the mattern vent latter reports an internal electrical fault visit to L M	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V			lanço de la constitución de la c			
	bus. Principal mehlem searce(s)	Temperature condition: • None Time condition:			- US emissions warning temp: off			
MEU017.2 B10000 Sc0200 S2037 D146kmmin.comed and the daposite function monitory the correscy and the designment of the message.	Detective addition vertilatal     Detective addition vertilatal     This fluids is togged in the     assembly initiaterel electrical     fault H-tridge)     fault H-tridge	Time condition: - None Other conditions: Terminal 15 - none	None NO CAN masage	Defective radiator vent slat assembly (internal N electrical fault H-bridge)	- US electronic ergine power     - US electronic ergine power     - Cany out system analysis.     - CC message: none     none     - Comessage: none     none	Possible apparent symptoms: None	Breakdown notice: None	None
	The fault is recognized when	Voltage condition: - Onboard electrical system voltage between 9 V and 95 V			lanço di estimate di estima 1- CCE estadori engine poser reductori engine 1- CC masage: none			
	The fault is recognized when the measure is not recalled in the specified time.	Temperature condition: - None Time condition: - None Other conditions:			- US emissions warning lamp: off			
MEV017.2- 8V0000 GuCDME 5303 PT-GW, message (whick mode, 210) miaing the message.	Potential problem scorectly). This fault is baged in the - Fault with humanity and a score of the score of t	Terminal 15 - none Unitary Contractions	- None NO CAN massage	N - Fault with transmitting control module	- US electronic engine power     reduction: off     reduction: of	Possible apparent symptoms: None	Breakdown notice: Norw	None
	The fault is recognized when	Terminal 15 - none Voltage condition: - Onboard electrical system voltage between 9 V and 16 V			lamp: off - ECE electronic engine proser reduction: off - CC message: norm			
	the message is not scended in the apecified time. Potential problem seconds in Putential problem seconds in Partial problem seconds in Partial problem seconds in the second seco	Temperature condition: - None Time condition: - None Other conditions:			- US emissions warring lamp: off - US electronic engine power			
ME(2017.2. PT-CAN, message power measurement, The darpartic-function monitors scopetion of 0VC200 0xC201 02541 0	- Paul with transmiting menales present for larger     control module     than 1 min.	Terminal 15 - none	- None NO CAN masaage	N - Fault with insramiting control module	- Cany cut system analysis.     - CC message: none     image: cit	Possible apparent symptoms: None	Breakdown notice: None	None
	The fault is recognized when the message is not necessive in the specified form.	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Terroerature condition:			tamp: ctl - ECC electronic engine power reduction: ctl - CC message: .none			
	Potential problem source(s): This fault is logged in the	V Temperature condition: - None Time condition: - None			- US emissions warning lamp; off - US electronic enrains sover			
HEVCH7.5         PFCAR reason (white, convertise initial, NO200         CO201         S262         S2670         No100           NO200         S262         S2670         No100         N </td <td>- Fuck with transmitting control imodules task control imodules memory immediately.</td> <td>Other conditions: Terminal 15 - none</td> <td>- None - None NO PR message</td> <td>N - Fault with transmitting control module</td> <td>- Cany out system analysis.     - CC message, none     - none     - CC message, none     - CC existence engine     - CCE existence engine</td> <td>Possible apparent symptoms: None</td> <td>Breakdown notice: None</td> <td>Norm</td>	- Fuck with transmitting control imodules task control imodules memory immediately.	Other conditions: Terminal 15 - none	- None - None NO PR message	N - Fault with transmitting control module	- Cany out system analysis.     - CC message, none     - none     - CC message, none     - CC existence engine     - CCE existence engine	Possible apparent symptoms: None	Breakdown notice: None	Norm
	The fault is recognized when the message is not received in the specified time.	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V Temperature condition:			power reduction: off - CC message: none			
MEX0172 PT-CAN, no message (www.exp.ar.minia. The dispratic function monitors reception of	is the specified time. The dispractic funct code is Petiential problem successful , Petiential ,	- None     Time condition:     - None     Cthar conditions:			- US emissions warning large, citil - US electronic angles power reduction: of	Possible apparent symptoms:	Breakdown notice:	
MEIO(17.2         PT-CAN, to message lemma gue atula, NOTOD         Decide atulation         The dispratic function monitors reception of the message.           NOTOD         ACDM         5544         300;         the message.	Fluid with transmitting transmitting control module     control module     than 1 min.	Terminal 15 - none Voltage condition:	- None - None NO CAN message	N - Fault with transmitting control module	Carry out system analysis.     CC message: none     Only relevant for manual transmission veh	Possible apparent symptoms: - Accelerator pedal progression failure	Breakdown notice: - none	-1008
	The final is recognized when the requirited integra is invalid.	- Onboard electrical system voltage between 9 V and 95 V Temperature condition:			kamp: df - ECE elucitoric englise poer induction: of - CC massage: none			
MEUDIT25 PFCAR, message (long-ar repart, seeing, The degradic function monton file required	Pdentifia problem scoreding - fault with scoreding - fault with scoreding - scored module - scored module	Temperature condition: - None Time condition: - None Other conditions: Terminal 15 - once			US emissions warring largo; off     US elactonic angine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
MCR012         PTCAN emaps impart page. The figure to cline monitor is required           B02020         BCDA         SSH         B1) AFSTE dealled or elempt page mold         toget		Terminal 15 - none Voltage condition: - Onboard electrical system voltage between 9 V and 15	- None NO Torque request	Y - Fault with transmitting control module	Cany out system analysis.     CC message: none none	APS failure	Norw	None
	The basis is suspirated when the basis particle counter that not time to be message and the message of walkament second.	v			berror df - ECE decisions engles power reductions off - CC messages, nove - US emissions werning			
MC00172-         PFCAR, ensage long angust, stering.         The departs function motion for convery.           MC002         GACME         SMA         B10 declama wang.	Potential problem source(x): This tault is logged in the - Fault with transmitting control module's fault	Temperature condition: - None Time condition: - None Other conditions:			lamp: off - US electoric engine power reduction: off	Possible apparent symptoms:	Breakdown notice:	
BODD GrCM4 2546 B1) decision worg and the decision of the manage.	control module memory investigately.	Terminal 15 - none Voltage condition: - Onboard electrical system voltage between 9 V and 15	- None NO CAN message	N - Fault with transmitting control module	- Ceny sut system analysis. - Ceny sut system analysis. - CCC massage none - CCC massage none - CCC massage none	AFS takze	None	Nore
	The fault is recognized when the message is not messived in the specified time.	V			- US aminging warring			
MEVOIT2- b0000         PFCAR no message (traps repart, itering.         The dispract function monitors reception of the message.	Potential problem source(s): - Pault with transmitting control module's fault	Temperature condition: - None Time condition: - None Other conditiona: - none			kenpo di - US electranic engine power reduction: of	Possible apparent symptoms: APS talune	Breakdown notice:	
NOD0         ACDV/         ISA/F         B1)         Pamesage.	oontrol memory investigately.	Voltage condition: - Onboard electrical system voltage between 9 V and 16	- none - none NO Contrasage	N - Pault with transmitting control module	- Cetry cut system analysis.     - Cet message: none notes     berg: df     - ECE existicitie englise     power indication: df     - CCE message: none	Arstaba	Nore	NONE
	The fault is recognized when the requasted larges is invalid.	V Temperature condition: None			- US emissions warning			
MEGO17.2 PFCAN, manage (lower repair), ASL 80 The disposit function monitor for equated INSDID GACAM 5558 APSTE desiled or service to an indef to take	Potential problem source(i): - Paut with transmitting control module's tauti control module's tauti control module's tauti memory: investigative control module's tauti	Time condition: - None Other conditions: - 5008	None NO Torque request	Y - Fault with transmitting control module	lamp: off - US electronic engine power reduction: off - Cany out system analysis <u>CSC message: some</u> none	Possible apparent symptoms: APS taking	Breakdown notice:	Nices
	The fact is serverined when	Voltage condition: - Onboard electrical system voltage between 9 V and 15			Lamp: off - ECE electronic engine			
	the keep-able control has not time be measure and the measure of the control of the measure the measure of the control of the measure of the control of the	V Temperature condition: - None Time condition: - None			power reduction: eff - CC massage: none - US emissions werning larg: eff			
NEV/D17.2- PT-CAN, message (ongue request, APS, 80). The degradic function monitors the connexy 800200 GuCDA0 5264 Celesan wang and the dealcan of the message.	Potential problem source(p): This tault is logged in the - Fault with transmitting control module memory intradiately control module memory intradiately	Other conditions: Terminal 15 - none	- None NO CAN masage	N - Fault with transmitting control module	- Os excotor engre power     reduction: of     - Comessage: none     none	Possible apparent symptoms: AFS takine	Breakdown notice: None	None
		Voltage condition: - Onboard electrical system voltage between 9 V and 16			lamp: dt - ECE wiectonic engine power workcitor: df			
	The full it morprised when the mussage in and much we in the specified time.	v Temperature condition: - None Time condition:			- CC message: none - US emissions warring temp: off			
ME(X017.2- BN0000 GxCDA4 5200 PTCAK, no masage (long a repart, A/S, The dagnatic function monitors exception of BD): Pri mesage.	Puterial problem sourceigh; - Faul eth Hamaling optimized in the control module tempory immediately.	- None Other conditions: Terminal 15 - none	None - None NO CAN massage	N - Fault with transmitting control module	- US alactoric angine power     - US alactoric angine power     - Carey out system analysis.     - CC message: none     none	Possible apparent symptoms: AFS failure	Breakdown notice: None	None
	The fault is recognized when the language when counter has not transf for manage and the manage of declarate is incomes.	Voltage condition: - Onboard electrical system voltage between 9 V and 15 V			lanço di estimate di estima 1- CCE estadori engine poser reductori engine - CC masage: none			
		Temperature condition: - None Time condition: - None Other conditions:			- US emissions warning lamp: off			
MEV/0173- PF CAVL message (wheel trops request, dive 800200 GxCDAB 52001 train, foot passinger stid). Alver check and the cheasage.	Potential problem source(s): - Pauk with smalling output of means output of means - Pauk with smalling output of means - Pauk with smalling - Pauk	- None Other conditions: Terminal 15 - none Voltage condition:	- None NO CAN massage	N - Fault with transmitting control module	- US electronic engine power     reductors of      - Camy out system analysis.     - CC message: none     reductors	Possible apparent symptoms: Cruise control failure	Breakdown notice: None	Nore
	The ball is receptorised whan the keep-adva counter has not timed the message and the message drackaum is	Onboard electrical system voltage between 9 V and 15 V			lamp: df - ECE windonic engine power reduction: df - CC message: none			
	incorrect.	Temperature condition: - None Time condition: - None Other conditions:			- US emissions warring large; off - US effectively engine mage			
ME10173 B0200         PF GAI, essaage johan'iroge request dies Databox         Te dispositive londing registry           ME100173         0x0040         F5050         over 1000         event of the dispositive londing registry           ME100173         0x0040         F5050         over 1000         event of the dispositive londing registry	Polietial problem source(i); - Trais truit in logged in the control module memory immediately.		None - None NO CAN message	N - Fault with transmitting control module	- Cany out system analysis.     - CC message: none none     lamp: of	Possible apparent symptoms: Cruise control failure	Breakdown notice: None	None
	The fault is recognized when the message is not received in the specified form.	Voltage condition: - Onboard electrical system voltage between 9 V and 95 V Temperature condition:			tamps off - ECE electronic angine pomer reduction: off - CC message: none			
MCI072- PFCM masain linker lower maans, dee The diameter lunction monitor macation of	Potential problem source(s): This fault is logged in the	V Temperature condition: - None Time condition: - None Other conditions:			US emissions warring lamp: off     US electronic engine power reduction: off			
ME/017.2         PF-CAX example (hear tingue repart, des bases)         The disparative lucidor novibre receptor of htmmspan           B0000         6/2033         5/803         types, hort assesser adduit missing         htmmspan	- Fuck with howarding control modules fault control module memory investigates.	Other conditions: Terminal 15 - none Voltage condition: - Onboard electrical system	- None - None NO CAN message	N - Fault with transmitting control module	- Canry out system analysis.     - <u>CC groups of</u> none     - None     - ECC system of the syste	Possible apparent symptoms: Chilae control failure	Breakdown notice: None	None
	The fault is recognized when the message is not received in the specified time.	voltage between 9 V and 16 V			power reduction: off - CC message: none			
MEX0172. PTCNR, no manage (sharing sheaf angle, The dispratic luncitors more) and	In the specified time. Potential problem survey) - Pault with transmitting control module: memory immediately.	- None     Time condition:     - None     Other conditions:			- US eminations warning lamp: off     -US electronic explan power reduction: off	Possible apparent symptoms:	Breakdown notice-	
ME(1017.2 bit200	- Fault with trace-initing control includes it fault      control includes it fault      control includes      manopy inmediately.	Other canditions: Terminal 15 - none Voltage condition: - Onboard electrical system	- Norme ND CAN message	N - Fault with transmitting control module		Possible apparent symptoms: None	Breakdown notice: None	Nons
	The Bull is recognized when	Voltage between 9 V and 15 V Termenature coordinor			- CCE extension sensing barry off - ECE electronic regime power induction; off - CC messages now MiTUS	Possible apparent symptoms: - No tachometer display in the instrument		
	a hardware fault is present in the CAN controller. This fault is borrent in the	- None Time condition:			- US etmasters warring lamp: on	cluster - DSC failure - Automatic transmission in Imp-home mode		
NEC017.3 (MODT2)         PFCAR communities the DPMARCAN         The disposite function in the CAN         Pp201         Ppentine CAN, 009AM CAN Chip Defecting         C           MODT2- NEXCOD         6CCDB         25007         centraling in the CAN         Pp201         Ppentine CAN, 009AM CAN Chip Defecting         C	Potential problem source(s) control modula's fault communication DBM defective memory immediately.	Celler conditions: Terminal 15 - none	- None NO none	N -DME defective	reduction: of none	Brief rpm drop when IHKA automatic climate control is activated at tidle	Breakdown notice: Norw	None
		Voltage condition: - Onboard electrical system voltage between 9 V and 16			lang. cfl lang. cfl - CEC elucitorio engine poner reduction: cfl - CC mussage: nom			
	The fault in recognised when the longuin is greater than the required torque.	Y			10 animine exercise			
ME100173- PTCAN, masage lorges request AFS, 80) The dispetidic lanction motions the requested INVICED GLCRD 10055 total tasks year total tasks and tasks an	Potential problem source(s): - Fault with transmitting control modula's hast control modula's hast - control modula's hast - control modula's hast	- None - None Time condition: - None Time condition: - None Terminal 15 - none	- None NO Torgan request	Y - Fault with transmitting control module	- Commandative transmity     Image: Commandative transmity     Image: Commandative transmitter     - CS electronic angles power     reductions: ended     - Commandative comm     - Commandative comm     - Commandative comm     - none	Possible apparent symptoms: APS taken	Breakdown notice: None	None
		Voltage condition: - Onboard electrical system voltage between 9 V and 16 V			- Cany out system analysis.     - CC message: none none     leng. of     - CCE dectronic regrin     power metacions of     - CC message: none			
	The last in tensorprined when the message in and received in the specified time. The diagnostic fault code is	V Temperature condition: - None Time condition: - None			- US emissions warning lamp: off			
MEYOT73 acC084 5550 Service (bdfs) (200 server, dispositio for the dispositio function morphism of the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Service (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server, disposition for the message. U1159 Last Communication with OBD Server (bdfs) (200 server) (200 server) (200 server) (200 server) (200 server) (200 server) (	Paterial problem second) logged when the fund - Fault with breasanthy remain present for longer output imdula	Other conditions: Terminal 15 - none	None - None NO CAN message	N - Fault with transmitting control module	- US electronic engine power reduction: of     - Carry out system analysis.     - CC message: none     none	Possible apparent symptoms: None	Breakdown notice: None	None
		Voltage condition: - Onboard electrical system voltage between 9 V and 95 V			lamp: off - ECE windowsie engine power reduction: off - CC massage: none			
	The facility for the second se	V Temperature condition:			- US emissions warning lamp: off			
ME10172 PT-CNL message longer reparts Issenty B0000 Gc008 S082 B11 longer long to the sequence longer B11 longer long to the sequence longer brown	Potential problem source);1 The fault is logared in the - Fault with howevering on control module task option in the source of t	- none Time condition: - None Other conditions: Terminal 15 - none Voltage conditions	None NO Torget regetst	Y - Fault with transmitting control module	- US electronic engine power     reduction of      - Cany out avalem analysis.     - <u>CC message: none     none     -      </u>	Possible apparent symptoms: APS takare	Breakdown notice: None	None
	The fault is recognized when	Voltage condition: - Onboard electrical system voltage between 9 V and 16 V			lamp: off - ECE electoric engine poser reduction: off - CC message: none			
	The table are exceptions when the message is not recover in the appendix time. Puteral products more cover - Final with second to the forget when the table - Final with second to the forget	Temperature condition: - None Time condition: - None Other conditions:			- US entrations working lenger off - US electronic engine power moduction: off			
ME(2017.5 PFCAN; nessign had pump status, 326): The dispositic luncion nonizers reception of the researcy to receive the researcy to receive the researcy to receive the researcy.	- Fulling products reactions     - Full with transmitter for larger     - Paul with transmitter for larger     paul res.     paul res.     paul res.	Other conditions: Terminal 15 - none	- None NO CAN massage	N - Fault with transmitting control module	- Cany out system analysis CC message: none none	Possible apparent symptoms: None	Breakdown notice: None	None

MEVDIT2-							
NEVDT2-	 	 		 			
BN2000 0xCDB2 5265			1		1	I	1
MEVOT2-							