

Test plan for BMW Service (development status)																										
MEVD17.2-BN2000																										
ECU type	Fault Code (SBC)	BMW Fault Code Description VS-Test	Fault description	DTC (Diagnostic Trouble Code)	DTC Description	Component	Subcomponent	Monitoring criteria	Fault-detecting	Terminal conditions	Voltage conditions	Temperature conditions	Time conditions	System test	Signal information	Calculated value Y/N	Possible Fault Causes	Repair procedure (after/before)	ML Recommendation/Program	Remarks	Customer perception comments	Breakdown instruction	Service instruction			
MEVD17.2-BN2000	32710	1300	The diagnostic function checks the throttle valve's control signal for excessively high figures that would indicate that the throttle valve is sticking.	P1028	Throttle Valve Position Control Throttle Stick Permanently (Bank 1)	Throttle Actuator	Throttle Stick	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defect in wiring harness between throttle valve actuator motor and DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	None	STUEBEN, DL STUEBEN, ENDE, DL STATUS, IMP, VOLT	none	Y	<ul style="list-style-type: none"> <li>- Throttle valve moves off, sticking</li> <li>- Defect in wiring harness between throttle valve actuator motor and DME</li> <li>- Defective throttle valve actuator motor</li> </ul>	<ul style="list-style-type: none"> <li>- Use valve to actuate throttle valve and observe responding speed</li> <li>- Check wiring harness between DME and throttle valve</li> <li>- Check mechanical condition of throttle valve and induction system for contamination</li> <li>- Measure the throttle valve manually to determine whether it engages throughout its entire travel range</li> <li>- Repair throttle valve actuator motor</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Reduced power	Breakdown notice: - Ability to continue driving is restricted because engine speed is limited to roughly 1300 rpm	none				
MEVD17.2-BN2000	32711	1301	The diagnostic function monitors the throttle valve control signal for excessively high figures that would indicate that the throttle valve is sticking or jammed.	P1028	Throttle Valve Position Control Throttle Stick Temporarily (Bank 1)	Throttle Actuator	Throttle Stick	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defect in wiring harness between throttle valve actuator motor and DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	STUEBEN, DL STUEBEN, ENDE, DL STATUS, IMP, VOLT	none	Y	<ul style="list-style-type: none"> <li>- Throttle valve moves off, sticking</li> <li>- Defect in wiring harness between throttle valve actuator motor and DME</li> <li>- Defective throttle valve actuator motor</li> </ul>	<ul style="list-style-type: none"> <li>- Use valve to actuate throttle valve and observe responding speed</li> <li>- Check wiring harness between DME and throttle valve</li> <li>- Check mechanical condition of throttle valve and induction system for contamination</li> <li>- Measure the throttle valve manually to determine whether it engages throughout its entire travel range</li> <li>- Repair throttle valve actuator motor</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Reduced power	Breakdown notice: - Ability to continue driving is restricted because engine speed is limited to roughly 1300 rpm	none					
MEVD17.2-BN2000	32714	1304	The diagnostic function monitors the difference between specified and actual throttle valve values. If this figure remains too high for a specified period, a check is requested and the throttle valve is described as being stuck.	P113A	Throttle Igt (Bank 1)	Throttle	Throttle	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defect in wiring harness between throttle valve actuator motor and DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	STUEBEN, DL STUEBEN, ENDE, DL STATUS, IMP, VOLT	none	Y	<ul style="list-style-type: none"> <li>- Stiction in throttle valve</li> <li>- Defect in wiring harness between throttle valve actuator motor and DME</li> <li>- Defective throttle valve actuator motor</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and throttle valve</li> <li>- Use valve to actuate throttle valve and observe its reaction</li> <li>- Check throttle valve for contamination and foreign objects</li> <li>- Measure throttle valve by hand, checking for resistance to return and noting how quickly it returns</li> <li>- Repair throttle valve actuator motor</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Reduced power	Breakdown notice: - Ability to continue driving is restricted because engine speed is limited to roughly 1300 rpm	none					
MEVD17.2-BN2000	32774	1300	Mass air flow sensor: plausibility. Air mass compared with model too high.	P110D	Mass or Volume Air Flow 'N' Circuit Range/Performance - Air Flow Too High	Mass Air Flow	Too High	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Intake system leaking</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	none	Y	<ul style="list-style-type: none"> <li>- Calculated air mass exceeds the measured air mass</li> <li>- Coloured fuel caused by other components in the intake system, ValveTrain, ValveTrain</li> <li>- Intake system leaking</li> <li>- HFM defective</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emission warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> <li>- If other diagnostic fault codes related to components in the induction tract, ValveTrain or ValveTrain have been logged, these processes have first (to be) handled</li> <li>- Check intake system for leaks</li> <li>- Repair HFM</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - none	Breakdown notice: - none	none					
MEVD17.2-BN2000	32774	1300	Mass air flow sensor: plausibility. Air mass compared with model too high.	P110D	Mass or Volume Air Flow 'N' Circuit Range/Performance - Air Flow Too High	Mass Air Flow	Comparison to Model	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Intake system leaking</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	none	Y	<ul style="list-style-type: none"> <li>- Calculated air mass exceeds the measured air mass</li> <li>- Coloured fuel caused by other components in the intake system, ValveTrain, ValveTrain</li> <li>- Intake system leaking</li> <li>- HFM defective</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emission warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> <li>- If other diagnostic fault codes related to components in the induction tract, ValveTrain or ValveTrain have been logged, these processes have first (to be) handled</li> <li>- Check intake system for leaks</li> <li>- Repair HFM</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - none	Breakdown notice: - none	none					
MEVD17.2-BN2000	32775	1301	Mass air flow sensor: plausibility. Air mass calculated from the model with the measured air mass.	P110C	Mass or Volume Air Flow 'N' Circuit Range/Performance - Air Flow Too Low	Mass Air Flow	Too Low	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Compressor bypass valve stuck in open position (accompanied by low boost pressure indicator)</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	30°C < intake air temperature < 120°C 7.7% < dynamic load < 30°C < coolant	None	None	NO	none	Y	<ul style="list-style-type: none"> <li>- Defective HFM, problem with airflow to HFM, clean air tube filter of intake air mass</li> <li>- Leak into induction tract on engine side of throttle valve (leak in vicinity of intake or piston chamber, open of filter cap)</li> <li>- Malfunction in components affecting airflow (leak in mounting, position of VANOS, throttle valve, pressure sensor, ...)</li> <li>- Compressor bypass valve stuck in open position (accompanied by low boost pressure indicator)</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness on HFM</li> <li>- Check intake system for leaks on engine side</li> <li>- Clean air tube filter of intake air mass</li> <li>- Set on of filter cap to defective</li> <li>- Purge intake system (for filter head in defective or installed incorrectly)</li> <li>- Repair HFM</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - If HFM is recognized as defective it is deactivated, following air during deceleration going to lambda trim air components.	Breakdown notice: - none	none					
MEVD17.2-BN2000	32775	1301	Mass air flow sensor: plausibility. Air mass calculated from the model with the measured air mass.	P110C	Mass or Volume Air Flow 'N' Circuit Range/Performance - Air Flow Too Low	Mass Air Flow	Comparison to Model	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Compressor bypass valve stuck in open position (accompanied by low boost pressure indicator)</p> <p>This fault is recognized when the period duration of the HFM signal exceeds 840 µs.</p> <p>Potential problem scenario(s): - Defective HFM, problem with airflow to HFM, clean air tube filter of intake air mass</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	30°C < intake air temperature < 120°C 7.7% < dynamic load < 30°C < coolant	None	None	NO	none	Y	<ul style="list-style-type: none"> <li>- Defective HFM, problem with airflow to HFM, clean air tube filter of intake air mass</li> <li>- Leak into induction tract on engine side of throttle valve (leak in vicinity of intake or piston chamber, open of filter cap)</li> <li>- Malfunction in components affecting airflow (leak in mounting, position of VANOS, throttle valve, pressure sensor, ...)</li> <li>- Compressor bypass valve stuck in open position (accompanied by low boost pressure indicator)</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness on HFM</li> <li>- Check intake system for leaks on engine side</li> <li>- Clean air tube filter of intake air mass</li> <li>- Set on of filter cap to defective</li> <li>- Purge intake system (for filter head in defective or installed incorrectly)</li> <li>- Repair HFM</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - If HFM is recognized as defective it is deactivated, following air during deceleration going to lambda trim air components.	Breakdown notice: - none	none					
MEVD17.2-BN2000	32778	1304	Air mass sensor, signal: Impossible period duration, lower control with low frequency	P1010	Mass or Volume Air Flow Sensor 'X' Circuit High	Mass Air Flow Sensor	Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defective DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Read not data block, ID 34E	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between HFM and DME</li> <li>- Mass airflow sensor defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and mass airflow sensor</li> <li>- Replace mass airflow sensor</li> <li>- Repair DME</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Engine runs roughly	Breakdown notice: - none	none					
MEVD17.2-BN2000	32779	1305	Air mass sensor, signal: Impossible period duration, lower control with high frequency	P1010	Mass or Volume Air Flow Sensor 'X' Circuit Low	Mass Air Flow Sensor	Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defective DME</p> <p>This fault is recognized when the period duration of the HFM signal is less than 84 µs.</p> <p>Potential problem scenario(s): - Defect in wiring harness between HFM and DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Read not data block, ID 34E	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between HFM and DME</li> <li>- Mass airflow sensor defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and mass airflow sensor</li> <li>- Replace mass airflow sensor</li> <li>- Repair DME</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Engine runs roughly	Breakdown notice: - none	none					
MEVD17.2-BN2000	32778	1304	Air mass sensor, signal: Short-circuit or the break lanes control	P1010	Mass or Volume Air Flow Sensor 'X' Circuit High	Mass Air Flow Sensor	Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defective DME</p> <p>This fault is recognized when the period duration of the HFM signal is more than 84 µs.</p> <p>Potential problem scenario(s): - Defect in wiring harness between HFM and DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Read not data block, ID 34E	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between HFM and DME</li> <li>- Mass airflow sensor defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and mass airflow sensor</li> <li>- Replace mass airflow sensor</li> <li>- Repair DME</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Engine runs roughly	Breakdown notice: - none	none					
MEVD17.2-BN2000	32779	1305	Air mass sensor, signal: Short-circuit or the break lanes control	P1010	Mass or Volume Air Flow Sensor 'X' Circuit Low	Mass Air Flow Sensor	Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Defective DME</p> <p>This fault is recognized when the period duration of the HFM signal is less than 84 µs.</p> <p>Potential problem scenario(s): - Defect in wiring harness between HFM and DME</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Read not data block, ID 34E	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between HFM and DME</li> <li>- Mass airflow sensor defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and mass airflow sensor</li> <li>- Replace mass airflow sensor</li> <li>- Repair DME</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Engine runs roughly	Breakdown notice: - none	none					
MEVD17.2-BN2000	32738	1301	Accelerator pedal module, pedal sensor 1, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit High	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal module defective</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 1 voltage (DME)	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between DME and accelerator pedal</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and accelerator pedal</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32738	1301	Accelerator pedal module, pedal sensor 1, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit Low	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal module defective</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 1 voltage (DME)	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between DME and accelerator pedal</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and accelerator pedal</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32738	1301	Accelerator pedal module, pedal sensor 2, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit High	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal module defective</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 2 voltage (DME)	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between DME and accelerator pedal</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and accelerator pedal</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32738	1301	Accelerator pedal module, pedal sensor 2, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit Low	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal module defective</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 2 voltage (DME)	Y	<ul style="list-style-type: none"> <li>- Defect in wiring harness between DME and accelerator pedal</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and accelerator pedal</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32744	1312	Accelerator pedal module, pedal sensor 1, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit High	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal sensor 1 voltage</p> <p>This fault is recognized when the voltage differential between sensor 1 and sensor 2 exceeds a specific defined value.</p> <p>Potential problem scenario(s): - Defective wiring harness</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 1 voltage Accelerator pedal sensor 2 voltage	Y	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness and plug connections</li> <li>- Check voltage supply to accelerator pedal module sensor 1 for 5 V</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32744	1312	Accelerator pedal module, pedal sensor 1, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit Low	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal sensor 1 voltage</p> <p>This fault is recognized when the voltage differential between sensor 1 and sensor 2 exceeds a specific defined value.</p> <p>Potential problem scenario(s): - Defective wiring harness</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 1 voltage Accelerator pedal sensor 2 voltage	Y	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness and plug connections</li> <li>- Check voltage supply to accelerator pedal module sensor 1 for 5 V</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32744	1312	Accelerator pedal module, pedal sensor 2, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit High	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal sensor 2 voltage</p> <p>This fault is recognized when the voltage differential between sensor 1 and sensor 2 exceeds a specific defined value.</p> <p>Potential problem scenario(s): - Defective wiring harness</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 1 voltage Accelerator pedal sensor 2 voltage	Y	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness and plug connections</li> <li>- Check voltage supply to accelerator pedal module sensor 2 for 5 V</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					
MEVD17.2-BN2000	32744	1312	Accelerator pedal module, pedal sensor 2, electrical: Short-circuit or low discrimination	P1210	Throttle/Pedal Position SensorSwitch 'O' Circuit Low	Pedal Position Sensor	D/ Electrical	<p>Voltage condition: - Checked electrical system voltage between 9 V and 16 V</p> <p>Temperature condition: None</p> <p>Time condition: None</p> <p>Other conditions: - Accelerator pedal sensor 2 voltage</p> <p>This fault is recognized when the voltage differential between sensor 1 and sensor 2 exceeds a specific defined value.</p> <p>Potential problem scenario(s): - Defective wiring harness</p> <p>This fault is logged in the control module's fault memory immediately.</p> <p>Terminal 15</p>	None	None	None	NO	Accelerator pedal sensor 1 voltage Accelerator pedal sensor 2 voltage	Y	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Accelerator pedal module defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness and plug connections</li> <li>- Check voltage supply to accelerator pedal module sensor 2 for 5 V</li> <li>- Repair accelerator pedal</li> </ul>	- ECE emission warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms: - Limit on pedal value reduction and on maximum absolute value (24.7% pedal)	Breakdown notice: - It is possible to continue driving the vehicle, but passing maneuvers should not be attempted until the reduction in engine output	none					

MEVD17.2 BN2000	S23RF	1004	Absolute pressure sensor, intake manifold, possibility: intake manifold pressure too high	During the shut-down phase the diagnostic function monitors the DME to determine whether the ambient air, intake manifold and boost pressure sensors are measuring the same pressure	P1245	Manifold Absolute Pressure Sensor X Alternating Diagnostics Pressure Too High	Manifold Absolute Pressure Sensor	Alternating	The intake manifold pressure sensor deviates from the average for the pressure sensors (barometric pressure, boost pressure, intake manifold pressure) by more than 70 mbar	Potential problem scenario(s) - Defective wiring harness - Sensor has been tampered with - Sensor defective	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	1 sec. after engine off	NO	none	Y	- Defective wiring harness - Sensor has been tampered with - Sensor defective	- Check wiring harness at sensor - Replace sensor	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Best case scenario: None	Breakdown notice - none	none	
MEVD17.2 BN2000	S23RF	1005	Absolute pressure sensor, intake manifold, possibility: intake manifold pressure too low	The diagnostic function monitors the DME's barometric pressure sensor	P1206	Manifold Absolute Pressure Top Low	Manifold Absolute Pressure Sensor	Pressure	The fault is recognized when the voltage of the barometric pressure sensor > 5.2 V	Potential problem scenario(s) - Internal DME fault, because barometric pressure sensor is located in the DME ECU	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	1 sec. after engine off	NO	none	Y	- Internal DME fault, because barometric pressure sensor is located in the DME ECU	- Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Best case scenario: None	Breakdown notice - none	none	
MEVD17.2 BN2000	S23RF	1006	Absolute pressure sensor, intake manifold, possibility: intake manifold pressure too low	The diagnostic function monitors the DME's barometric pressure sensor	P1204	Manifold Absolute Pressure Sensor X Low	Manifold Absolute Pressure Sensor	Alternating	The fault is recognized when the voltage of the barometric pressure sensor > 5.2 V	Potential problem scenario(s) - Internal DME fault, because barometric pressure sensor is located in the DME ECU	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	1 sec. after engine off	NO	none	Y	- Internal DME fault, because barometric pressure sensor is located in the DME ECU	- Check an induction system (intakes, etc.) - Check restriction (e.g. between turbocharger and intake air plenum) - Check wiring harness between DME and boost pressure sensor - Replace pressure sensor - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Best case scenario: None	Breakdown notice - none	none	
MEVD17.2 BN2000	S23EA	1006	Absolute pressure sensor, intake pipe, electrical Short circuit to B+	The diagnostic function monitors the intake manifold pressure sensor upper voltage limit	P1208	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	Manifold Absolute Pressure Sensor	Electrical	The voltage of the intake manifold pressure sensor exceeds 4.0 V	Potential problem scenario(s) - Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	None	NO	NO	NO	- Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	- Check wiring harness between intake manifold pressure sensor and DME - Replace intake manifold pressure sensor - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Engine rpm roughly	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1006	Absolute pressure sensor, intake pipe, electrical Short circuit to B+	The diagnostic function monitors the intake manifold pressure sensor upper voltage limit	P1208	Manifold Absolute Pressure Sensor Circuit High (Bank 1)	Manifold Absolute Pressure Sensor	Electrical	The voltage of the intake manifold pressure sensor exceeds 4.0 V	Potential problem scenario(s) - Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	None	NO	NO	NO	- Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	- Check wiring harness between intake manifold pressure sensor and DME - Replace intake manifold pressure sensor - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Engine rpm roughly	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1007	Absolute pressure sensor, intake pipe, electrical Short circuit to earth	The diagnostic function monitors the intake manifold pressure sensor's lower voltage limit	P1207	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	Manifold Absolute Pressure Sensor	Electrical	The voltage of the intake manifold pressure sensor is less than 0.2 V	Potential problem scenario(s) - Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	None	NO	NO	NO	- Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	- Check wiring harness between intake manifold pressure sensor and DME - Replace intake manifold pressure sensor - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Engine rpm roughly	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1007	Absolute pressure sensor, intake pipe, electrical Short circuit to earth	The diagnostic function monitors the intake manifold pressure sensor's lower voltage limit	P1207	Manifold Absolute Pressure Sensor Circuit Low (Bank 1)	Manifold Absolute Pressure Sensor	Electrical	The voltage of the intake manifold pressure sensor is less than 0.2 V	Potential problem scenario(s) - Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	None	NO	NO	NO	- Defect in wiring harness between DME and intake manifold pressure sensor - Intake manifold pressure sensor defective - Defective DME	- Check wiring harness between intake manifold pressure sensor and DME - Replace intake manifold pressure sensor - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms Engine rpm roughly	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1008	Absolute pressure sensor, electrical Short to B+ or open circuit	The diagnostic function monitors the DME's barometric pressure sensor	P1229	Barometric Pressure Sensor X Circuit High	Barometric Pressure Sensor	Electrical	The fault is detected by the internal calibration algorithm	Potential problem scenario(s) - DME defective	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	U	U	N	- DME defective	- Clear the ECU fault memory if the diagnostic fault code is logged again, replace the DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms ML on, customer proceeds to service facility	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1001	Absolute pressure sensor, electrical Short circuit to earth	The diagnostic function monitors the DME's barometric pressure sensor	P1228	Barometric Pressure Sensor X Circuit Low	Barometric Pressure Sensor	Electrical	The fault is detected by the internal calibration algorithm	Potential problem scenario(s) - DME defective	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	U	U	N	- DME defective	- If the diagnostic fault code has been logged more than 3 times replace the DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms ML on, customer proceeds to service facility	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1009	Absolute pressure sensor, overvoltage Pressure too high	During the control module's shut-down phase the diagnostic function monitors the barometric pressure sensor, intake manifold pressure sensor and boost pressure sensor to determine whether they are all measuring the same pressure	P1239	Barometric Pressure Sensor Alternating Diagnostics Pressure Too High	Barometric Pressure Sensor	Alternating	The fault is recognized when the average for the pressure sensors (barometric pressure, boost pressure, intake manifold pressure) by more than 70 mbar	Potential problem scenario(s) - Error in sensor - Sensor has been tampered with - Sensor defective	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	1 sec. after engine off	NO	none	Y	- Error in sensor measurement - Sensor defective	- If the diagnostic fault code has been logged more than 3 times replace the DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice - none	None	
MEVD17.2 BN2000	S23EA	1008	Absolute pressure sensor, overvoltage Pressure too low	The diagnostic function monitors the voltage at the boost pressure sensor	P1206	Barometric Pressure Sensor Alternating Diagnostics Pressure Too Low	Barometric Pressure Sensor	Alternating	The fault is recognized when the voltage of the boost pressure sensor < 0.2 V	Potential problem scenario(s) - Defect in wiring harness between DME and boost pressure sensor - Boost pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	2 sec. after engine off	NO	none	Y	- Defect in wiring harness between DME and boost pressure sensor - Boost pressure sensor defective - Defective DME	- Replace the DME if the fault code is currently present or has been logged more than three times	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice None	None	
MEVD17.2 BN2000	S23EA	1016	Absolute pressure sensor, plausibility Pressure too high	The diagnostic function monitors the barometric pressure sensor	P1238	Barometric Pressure Too High	Barometric Pressure Sensor	General	The fault is detected by the internal calibration algorithm	Potential problem scenario(s) - Barometric pressure sensor installed in DME (DMEs, PDMEs) - Barometric pressure sensor installed in DME ECU	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	none	Y	- Barometric pressure sensor installed in DME ECU, sensor voltage above threshold - DME defective used to control fault	- Replace the DME if the fault code is currently present or has been logged more than three times	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice None	A terminal status switch must be conducted before the fault can be cleared		
MEVD17.2 BN2000	S23EA	1017	Absolute pressure sensor, plausibility Pressure too low	The diagnostic function monitors the barometric pressure sensor	P1239	Barometric Pressure Too Low	Barometric Pressure Sensor	General	The fault is recognized when a limit is reached in the sensor	Potential problem scenario(s) - Defective wiring harness - DME defective	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	none	Y	- Defective wiring harness - DME defective	- Check wiring harness between electric fuel coil and DME - Check coil relay when Terminal 15 is off - Check if it should be present at both sensor connectors (SC). When activated the relay should click loudly, while actually no resistance (it should should be measured between the power connectors) - Replace coil relay	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice None	A terminal status switch must be conducted before the fault can be cleared		
MEVD17.2 BN2000	S23EA	1018	Absolute pressure sensor, plausibility Pressure impossible	The diagnostic function monitors the plausibility of the barometric pressure relative to that measured in the previous driving cycle	P1247	Barometric Pressure Plausibility	Barometric Pressure Sensor	Plausibility	The fault is recognized in response to excessive variations in the value	Potential problem scenario(s) - DME defective	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	none	Y	- DME defective	- Replace the DME if the fault code is currently present or has been logged more than three times	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice None	A terminal status switch must be conducted before the fault can be cleared		
MEVD17.2 BN2000	S23RF	1019	Absolute pressure sensor, plausibility Pressure impossible	The diagnostic function monitors the plausibility of the barometric pressure relative to that measured in the previous driving cycle	P1247	Barometric Pressure Plausibility	Barometric Pressure Sensor	Plausibility	The fault is recognized when the value sensor constant	Potential problem scenario(s) - DME defective	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	none	Y	- DME defective	- Replace the DME if the fault code is currently present or has been logged more than three times	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice None	A terminal status switch must be conducted before the fault can be cleared		
MEVD17.2 BN2000	S23RA	1000	Throttle valve angle, intake manifold pressure, correlation: Limit value exceeded	The diagnostic function monitors the throttle valve position and the current intake manifold pressure reading to determine whether they are mutually plausible	P120F	Manifold Absolute Pressure to Throttle Angle - Too High (Bank 1)	Manifold Absolute Pressure	Correlation	The fault is recognized when the measured value for intake manifold pressure (absolute) too high - Vacuum leak within induction train/engine - Incorrect throttle valve angle - Pressure sensor defective	Potential problem scenario(s) - Defect in wiring harness between DME and boost pressure sensor - Boost pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	30°C + 100 rpm + engine speed < 1500 rpm - 100°C + coolant temperature	None	NO	none	Y	- Measured value for intake manifold pressure (absolute) too high - Vacuum leak within induction train/engine - Incorrect throttle valve angle - Pressure sensor defective	- Check intake system and check for leakage - Check throttle valve combination, carbon deposits, timing - Check plug and wiring harness between intake manifold pressure sensor and DME - Check plug wiring harness at electric throttle valve actuator - Replace throttle valve - Replace pressure sensor	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice - none	None
MEVD17.2 BN2000	S23BA1	1001	Throttle valve angle, intake manifold pressure, correlation: Limit value not exceeded	The diagnostic function monitors the throttle valve position and the current intake manifold pressure reading to determine whether they are mutually plausible	P120E	Manifold Absolute Pressure to Throttle Angle - Too Low (Bank 1)	Manifold Absolute Pressure	Correlation	The fault is recognized when the measured value for intake manifold pressure (absolute) is too low - Defective plug or wiring harness - Vacuum leak within induction train/engine - Incorrect throttle valve angle	Potential problem scenario(s) - Defect in wiring harness between DME and boost pressure sensor - Boost pressure sensor defective - Defective DME	This fault is logged in the control module's fault memory immediately	none	Terminal 15	None	None	NO	none	Y	- Measured value for intake manifold pressure (absolute) is too low - Defective plug or wiring harness - Vacuum leak within induction train/engine - Incorrect throttle valve angle - Pressure sensor defective	- Check intake system and check for leakage - Check throttle valve combination, carbon deposits, timing - Check plug and wiring harness between intake manifold pressure sensor and DME - Check plug wiring harness at electric throttle valve actuator - Replace throttle valve - Replace pressure sensor	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms None	Breakdown notice - none	None	
MEVD17.2 BN2000	S23BA	1004	Throttle valve, throttle valve potentiometer 1, electrical Short to B+ or open circuit	The diagnostic function checks the signal from throttle valve actuator 1's electrical fault	P1213	Throttle/Position Sensor/ Switch X Circuit High	Throttle Position Sensor	1	The signal from throttle valve sensor 1 does above the fault threshold of 0.1 V	Potential problem scenario(s) - Defect in wiring harness between throttle valve actuator motor and DME - Throttle valve sensor defective - AD connector plug in DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	NO	NO	Y	- Defect in wiring harness between throttle valve actuator motor and DME - Throttle valve sensor defective - AD connector plug in DME defective	- Check wiring harness between DME and throttle valve - Replace throttle valve - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms - Reduced power	Breakdown notice - It is possible to continue driving the vehicle, but driving maneuvers should not be adapted along to the reduction in engine output	None	
MEVD17.2 BN2000	S23BA	1006	Throttle valve, throttle valve potentiometer 1, electrical Short circuit to earth	The diagnostic function checks the signal from throttle valve actuator 1's electrical fault	P1212	Throttle/Position Sensor/ Switch X Circuit Low	Throttle Position Sensor	1	The signal from throttle valve sensor 1 falls below the fault threshold of 0.1 V	Potential problem scenario(s) - Defect in wiring harness between throttle valve actuator motor and DME - Throttle valve sensor defective - AD connector plug in DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	NO	NO	Y	- Defect in wiring harness between throttle valve actuator motor and DME - Throttle valve sensor defective - AD connector plug in DME defective	- Check wiring harness between DME and throttle valve - Replace throttle valve - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms - Reduced power	Breakdown notice - It is possible to continue driving the vehicle, but driving maneuvers should not be adapted along to the reduction in engine output	None	
MEVD17.2 BN2000	S23BA	1009	Throttle valve, throttle potentiometer 2, electrical Short circuit to B+	The diagnostic function checks the voltage of throttle valve sensor 2 for electrical fault	P1210	Throttle/Position Sensor/ Switch X Circuit High	Throttle Position Sensor	2	The signal from throttle valve sensor 2 does above the fault threshold of 0.1 V	Potential problem scenario(s) - Defect in wiring harness between throttle valve actuator motor and DME - Throttle valve sensor defective - AD connector plug in DME	This fault is logged in the control module's fault memory immediately	Terminal 15	None	None	NO	NO	NO	Y	- Defect in wiring harness between throttle valve actuator motor and DME - Throttle valve sensor defective - AD connector plug in DME defective	- Check wiring harness between DME and throttle valve - Replace throttle valve - Replace DME	- ECE emissions warning lamp on - ECE electronic engine power reduction on - CC message on	none	Possible apparent symptoms - Reduced power	Breakdown notice - It is possible to continue driving the vehicle, but driving maneuvers should not be adapted along to the reduction in engine output	None	





















MEVD17.2	IN0000	SU201C	1104	Oxygen sensor after catalytic converter, system check. Signal level is given.	The diagnostic function monitors whether the voltage of the oxygen sensor behind catalytic converter remains stuck at a high value.	P2211	O2 Sensor Signal Base/Block Rich (Bank 1 Sensor 2)	Oxygen Sensor, Post	Signal Check	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Misfire too rich</li> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The diagnostic fault code is triggered when the fault remains present for longer than 10 min.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>- Misfire too rich</li> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Inspect wiring harness between oxygen sensor behind catalytic converter and DME</li> <li>- Replace oxygen sensor behind catalytic converter</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>
MEVD17.2	IN0000	SU201F	1101	Oxygen sensor after catalytic converter, electrical short circuit to earth.	The diagnostic function monitors electrical status of the oxygen sensor behind catalytic converter.	P2138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	Oxygen Sensor, Post	Electrical	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The fault is triggered when the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>Active heater activation more than 1 min.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Inspect wiring harness between oxygen sensor behind catalytic converter and DME</li> <li>- Replace oxygen sensor behind catalytic converter</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2020	1102	Oxygen sensor after catalytic converter, electrical short circuit to earth.	The diagnostic function monitors electrical status of the oxygen sensor behind catalytic converter.	P2137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	Oxygen Sensor, Post	Electrical	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The fault is recognized when an electrical malfunction is present in the oxygen sensor behind the catalytic converter.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>Active heater activation more than 1 min.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Inspect wiring harness between oxygen sensor behind catalytic converter and DME</li> <li>- Replace oxygen sensor behind catalytic converter</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2021	1104	Oxygen sensor after catalytic converter, electrical low disconnection.	The diagnostic function monitors the oxygen sensor behind catalytic converter.	P2136	O2 Sensor Circuit Bank 1 Sensor 2	Oxygen Sensor, Post	Electrical	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The diagnostic fault code is triggered when the fault remains present for longer than 1 min.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>Active heater activation more than 1 min.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Inspect wiring harness between oxygen sensor behind catalytic converter and DME</li> <li>- Replace oxygen sensor behind catalytic converter</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2023	1105	Oxygen sensor before catalytic converter, pre-glow power side. Oxygen sensor control valve above threshold due to open pump current value.	The diagnostic function monitors the voltage of the oxygen sensor before the catalytic converter.	P2135	O2 Sensor Lambda Controller Valve Noise Threshold due to Open Pumping Current Circuit (Bank 1 Sensor 1)	Oxygen Sensor, Post	Positive Current	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between pre-catalytic converter and DME</li> <li>- Replace pre-catalytic oxygen sensor</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> <li>- High fuel consumption</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2024	1106	Oxygen sensor before catalytic converter, in-circuit/governor mode. Signal outside limit value.	The diagnostic function monitors the voltage of the oxygen sensor before the catalytic converter.	P2137	O2 Sensor Out of Range During Deceleration (Bank 1 Sensor 1)	Oxygen Sensor, Post	Deceleration	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>Over-run operation must be possible for at least 2 seconds and the EGR valve must be closed.</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between pre-catalytic converter and DME</li> <li>- Replace pre-catalytic oxygen sensor</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> <li>- High fuel consumption</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2025	1107	Oxygen sensor before catalytic converter, low fuel. Open circuit, upper control limit.	The diagnostic function monitors the voltage of the oxygen sensor before the catalytic converter.	P2137	O2 Sensor Positive Current Control Circuit/Open (Bank 1 Sensor 1)	Oxygen Sensor, Post	Positive Current	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between pre-catalytic converter and DME</li> <li>- Replace pre-catalytic oxygen sensor</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> <li>- High exhaust emissions</li> <li>- High fuel consumption</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2027	1109	Oxygen sensor before catalytic converter, low fuel. Open circuit, under ground.	The diagnostic function monitors the internal resistance and the signal voltage of the oxygen sensor before the catalytic converter.	P2135	O2 Sensor Negative Current Control Circuit/Open (Bank 1 Sensor 1)	Oxygen Sensor, Post	Negative Current	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between pre-catalytic converter and DME</li> <li>- Replace pre-catalytic oxygen sensor</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> <li>- High exhaust emissions</li> <li>- High fuel consumption</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2028	1103	Oxygen sensor before catalytic converter, electric heater self-resistance or connection impedance. Signal too high/low limit.	The diagnostic function monitors the temperature of the oxygen sensor before the catalytic converter.	P2135	O2 Sensor Heater Resistance (Bank 1 Sensor 1)	Oxygen Sensor, Post	2 min	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Increased resistance in sensor heater or connection</li> <li>- Defective wiring harness</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The fault is triggered when the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between pre-catalytic converter and DME</li> <li>- Replace pre-catalytic oxygen sensor</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2031	1101	Oxygen sensor before catalytic converter, system check. Signal level at zero.	The diagnostic function monitors the voltage of the pre-catalytic oxygen sensor and compares it with the voltage of the oxygen sensor behind the catalytic converter (at lambda=1).	P2136	O2 Sensor Signal Base/Block Lean (Bank 1 Sensor 1)	Oxygen Sensor, Post	Signal Check	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The diagnostic fault code is triggered when the fault remains present for longer than 10 min.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- Oxygen sensor before catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Inspect wiring harness between oxygen sensor behind catalytic converter and DME</li> <li>- Replace oxygen sensor behind catalytic converter</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2034	1102	Oxygen sensor before catalytic converter, system check. Signal level at zero.	The diagnostic function monitors the voltage of the pre-catalytic oxygen sensor and compares it with the voltage of the oxygen sensor behind the catalytic converter (at lambda=1).	P2138	O2 Sensor Signal Base/Block Rich (Bank 1 Sensor 1)	Oxygen Sensor, Post	Signal Check	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Misfire too rich</li> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Misfire too rich</li> <li>- Defective wiring harness</li> <li>- Oxygen sensor behind catalytic converter defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Inspect wiring harness between oxygen sensor behind catalytic converter and DME</li> <li>- Replace oxygen sensor behind catalytic converter</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the oxygen sensor is not ready for closed-loop control, conversion of exhaust gases in the catalytic converter will be seriously impaired.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2044	1106	Valvetronic, adjustment range. Stop on start.	The diagnostic function determines whether a self-test level is reached during initialization of the Valvetronic system.	P1014	VVT-GM Learning Function. Stop Not Learned	Valvetronic (VVT)	Self-Learning Function	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Valvetronic system travel stops damaged</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The fault is triggered when the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>SYSTEMCHECK_VVT_ANC FLAG</li> <li>STUEBEN_VVT</li> </ul>	<ul style="list-style-type: none"> <li>- Valvetronic system travel stops damaged</li> <li>- Perform the Valvetronic system</li> </ul>	<ul style="list-style-type: none"> <li>- Check test steps in cylinder head and on the intake and exhaust valves</li> <li>- Perform Valvetronic system in very correct position and in clean condition</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the VVT has reached its emergency warning position, unlearned throttle position is possible.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2045	1106F	Valvetronic, adjustment range. Fault range check.	The diagnostic function monitors whether the adjustment range has been learned during the course of the vehicle's service life.	P1013	VVT-GM Learning Function Faulty Adjustment Range (Bank 1)	Valvetronic (VVT)	Self-Learning Function	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Wear at the travel stops</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The fault is triggered when the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>Adjustment range check every 1800 km of operation</li> </ul>	<ul style="list-style-type: none"> <li>SYSTEMCHECK_VVT_ANC FLAG</li> <li>STUEBEN_VVT</li> </ul>	<ul style="list-style-type: none"> <li>- Wear at the travel stops</li> <li>- Inspect Valvetronic for mechanical wear and resistance to rotation</li> <li>- Replace components with mechanical wear</li> </ul>	<ul style="list-style-type: none"> <li>- Repair Valvetronic travel stop learning routine, refer to service function</li> <li>- Inspect Valvetronic for mechanical wear and resistance to rotation</li> <li>- Replace components with mechanical wear</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the VVT needs to limp-home mode, minor effects can be felt.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2048	1108	Valvetronic, adjustment range. Range check, position to range adaptation.	The diagnostic function monitors the adjustment range during the check of the Valvetronic system.	P1014	VVT-GM Learning Function Faulty Adjustment Range (Bank 1)	Valvetronic (VVT)	Self-Learning Function	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Wear at the travel stops</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The fault is triggered when the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>Adjustment range check every 1800 km of operation</li> </ul>	<ul style="list-style-type: none"> <li>SYSTEMCHECK_VVT_ANC FLAG</li> <li>STUEBEN_VVT</li> </ul>	<ul style="list-style-type: none"> <li>- Wear at the travel stops</li> <li>- Inspect Valvetronic for mechanical wear and resistance to rotation</li> <li>- Replace components with mechanical wear</li> </ul>	<ul style="list-style-type: none"> <li>- Repair Valvetronic travel stop learning routine, refer to service function</li> <li>- Inspect Valvetronic for mechanical wear and resistance to rotation</li> <li>- Replace components with mechanical wear</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- ML lights up when fault is detected in test consecutive driving cycles</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- Continuous driving is possible, but because the VVT has reached its emergency warning position, unlearned throttle position is possible.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2051	1101	Intake VANOS selected valve, activation. Short circuit to B+.	The diagnostic function monitors the wire to the VANOS selected valve.	P2269	X Camshaft Position Actuator Control Circuit High (Bank 1)	Camshaft Position Actuator	Intake Electrical	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- VANOS selected valve defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>STUEBEN_ENGS</li> <li>STUEBEN_ENGS_ENGS</li> </ul>	<ul style="list-style-type: none"> <li>- Defect in wiring harness between DME and VANOS selected valve</li> <li>- VANOS selected valve defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and VANOS selected valve</li> <li>- Repair VANOS selected valve</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- CC message, performance reduction, turbo description</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- None</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2052	1102	Intake VANOS selected valve, activation. Short circuit to earth.	The diagnostic function monitors the wire to the VANOS selected valve.	P2268	X Camshaft Position Actuator Control Circuit Low (Bank 1)	Camshaft Position Actuator	Intake Electrical	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Defective wiring harness</li> <li>- VANOS selected valve defective</li> <li>- Defective DME</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This fault is triggered in the control module's fault memory immediately.</li> </ul>	<ul style="list-style-type: none"> <li>Engine warmed to normal temperature, more than 80°C</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>STUEBEN_ENGS</li> <li>STUEBEN_ENGS_ENGS</li> </ul>	<ul style="list-style-type: none"> <li>- Defect in wiring harness between DME and VANOS selected valve</li> <li>- VANOS selected valve defective</li> <li>- Defective DME</li> </ul>	<ul style="list-style-type: none"> <li>- Check wiring harness between DME and VANOS selected valve</li> <li>- Repair VANOS selected valve</li> <li>- Repair DME</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- CC message, performance reduction, turbo description</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- None</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2054	1104	Variable camshaft timing control (VANOS), electrical, coil stop out connection.	The diagnostic function monitors adjustment of the exhaust camshaft during the camshaft adjustment program phase.	P0066	Cold Start VV Camshaft Position Timing Over-Range (Bank 1)	Camshaft Position Timing	Cold Start	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Contaminated oil passage</li> <li>- Defective wiring harness</li> <li>- Defective wires or plug terminals at VANOS selected valve</li> <li>- VANOS selected valve seized</li> <li>- VANOS selected valve defective</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The diagnostic fault code is triggered when the fault remains present for longer than 1 min.</li> </ul>	<ul style="list-style-type: none"> <li>Engine cold start to ensure that camshaft heater is active</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Contaminated oil passage</li> <li>- Defective wiring harness</li> <li>- Defective wires or plug terminals at VANOS selected valve</li> <li>- VANOS selected valve seized</li> <li>- VANOS selected valve defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check camshaft and VANOS oil for freedom of movement and mechanical damage</li> <li>- Clean VANOS selected valve, replace as required</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- Engine power loss</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- The engine reverts to an emergency limp-home program, continuous vehicle operation is possible, however power is reduced the driver should adapt their driving style.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	
MEVD17.2	IN0000	SU2055	1105	Variable camshaft timing control (VANOS), electrical, coil stop out connection.	The diagnostic function monitors adjustment of the intake valve camshaft during the camshaft adjustment program phase.	P0068	Cold Start VV Camshaft Position Timing Over-Range (Bank 1)	Camshaft Position Timing	Cold Start	<ul style="list-style-type: none"> <li>Potential problem scenario(s) <ul style="list-style-type: none"> <li>- Contaminated oil passage</li> <li>- Defective wiring harness</li> <li>- Defective wires or plug terminals at VANOS selected valve</li> <li>- VANOS selected valve seized</li> <li>- VANOS selected valve defective</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The diagnostic fault code is triggered when the fault remains present for longer than 1 min.</li> </ul>	<ul style="list-style-type: none"> <li>Engine cold start to ensure that camshaft heater is active</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	<ul style="list-style-type: none"> <li>NO</li> </ul>	<ul style="list-style-type: none"> <li>- Contaminated oil passage</li> <li>- Defective wiring harness</li> <li>- Defective wires or plug terminals at VANOS selected valve</li> <li>- VANOS selected valve seized</li> <li>- VANOS selected valve defective</li> </ul>	<ul style="list-style-type: none"> <li>- Check camshaft and VANOS oil for freedom of movement and mechanical damage</li> <li>- Clean VANOS selected valve, replace as required</li> </ul>	<ul style="list-style-type: none"> <li>- ECE emissions warning lamp on</li> <li>- ECE electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>- US emissions warning lamp on</li> <li>- US electronic engine power reduction on</li> <li>- CC message on</li> </ul>	<ul style="list-style-type: none"> <li>Possible apparent symptoms</li> <li>- Engine power loss</li> </ul>	<ul style="list-style-type: none"> <li>Breakdown notice</li> <li>- The engine reverts to an emergency limp-home program, continuous vehicle operation is possible, however power is reduced the driver should adapt their driving style.</li> </ul>	<ul style="list-style-type: none"> <li>None</li> </ul>	































MEVD17.2 BN2000	343870	14461	Power management, battery Power management fault	The diagnostic function monitors the battery's charge status in the transport mode.					Potential problem source(s) - Excessive battery discharge in transport mode	This fault is logged in the control module's fault memory immediately.	none	none	none	none	none	none	Excessive battery discharge in transport mode	- None in driver's delivery acceptance record - Conduct (DSE) energy diagnosis test results - Replace battery before delivery to customer and register battery charge with service function	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -	This fault position is not used in the LA. The fault class is with 'T' starting with production breakpoint 2007 - Release in 02.	Possible apparent symptoms CC message when battery replacement is not registered with the diagnostic system.	Breakdown notice None	None
MEVD17.2 BN2000	343877	14462	Power management, closed-circuit current	The diagnostic function monitors the steady-state current.	PI04F	Powermanagement,Low Load Current Error	Powermanagement	Electrical	Potential problem source(s) - Closed-circuit current too high	This fault is logged in the control module's fault memory immediately.	none	none	none	none	none	none	- Closed-circuit current too high - Conduct (DSE) energy diagnosis test results - Conduct external energy correct measurement	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Breakdown in engine power	Breakdown notice None	None	
MEVD17.2 BN2000	343886	14470	System voltage, Voltage too high	The diagnostic function monitors the electrical system voltage relative to an upper limit value.	PI05G	System Voltage High	System Voltage	Electrical	Potential problem source(s) - Alternator voltage regulator	This fault is logged in the control module's fault memory immediately.	none	none	none	none	none	2 min. after engine start	- Alternator voltage regulator is defective - Regulator defective	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Power reduction, CC message for engine	Breakdown notice None	None	
MEVD17.2 BN2000	343897	14471	System voltage, Voltage too low	The diagnostic function monitors the battery voltage relative to a lower limit.	PI05G	System Voltage Low	System Voltage	Electrical	Potential problem source(s) - Plug or wiring harness at alternator defective - DME defective - Alternator defective - Defective DME	This fault is logged in the control module's fault memory immediately.	none	none	none	none	2 min. after engine start	- Plug or wiring harness at alternator defective - Check plug and wiring harness at alternator - Check plug and wiring harness at DME - Alternator defective - Replace DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None		
MEVD17.2 BN2000	343898	14472	System voltage, Analog-digital converter faulty	The diagnostic function monitors the voltage of the analog-digital converter.	PI05G	System Voltage	System Voltage	Electrical	Potential problem source(s) - Defective DME (analog-digital converter)	This fault is logged in the control module's fault memory immediately.	Terminal 15	none	none	none	none	0 min.	- Defective DME (analog-digital converter) - If flag appears again replace the DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None	
MEVD17.2 BN2000	343944	14500	Intelligent battery sensor (IBS), Communication fault	The diagnostic function monitors expanded communications between the BSE and DME on the LIN bus.					Potential problem source(s) - Interrupted open on LIN bus line - Other electronic components on LIN bus - BSE defective	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- Interrupted open on LIN bus wire - Other electronic components on LIN bus - BSE defective	- Check LIN bus and plug connection between BSE and DME/ECU - Check plug and wiring harness at alternator - Check plug and wiring harness at DME - Alternator defective - Replace BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Anything from no symptoms to breakdown from undercharged battery	Breakdown notice None	None
MEVD17.2 BN2000	343947	14513	Intelligent battery sensor (IBS), Version not supported	The diagnostic function monitors compatibility of the BSE version with the power management in the DME/ECU.	PI05F	Battery Sensor, Variant Possibility			Potential problem source(s) - DME/ECU and BSE are not compatible	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- DME/ECU and BSE are not compatible	- Replace BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None
MEVD17.2 BN2000	343948	14514	Intelligent battery sensor (IBS), Internal fault	The diagnostic function monitors internal system functions in the BSE.					Potential problem source(s) - Internal system fault	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- If the diagnostic fault code has been entered with a frequency > 3 in a present continuously - Replace the BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Anything from no symptoms to breakdown from undercharged battery	Breakdown notice None	None	
MEVD17.2 BN2000	343949	14515	Intelligent battery sensor (IBS), Temperature measurement faulty	The diagnostic system classifies the BSE temperature measurement.	PI05G	Battery Sensor, Temperature Error			Potential problem source(s) - BSE defective	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- If the diagnostic fault code has been entered with a frequency > 3 in a present continuously - Replace the BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Anything from no symptoms to breakdown from undercharged battery	Breakdown notice None	None	
MEVD17.2 BN2000	343950	14516	Intelligent battery sensor (IBS), Voltage measurement erroneous	The diagnostic system classifies the BSE voltage measurement.	PI05G	Battery Sensor, Voltage Error			Potential problem source(s) - BSE defective	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- If the diagnostic fault code has been entered with a frequency > 3 in a present continuously - Replace the BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Anything from no symptoms to breakdown from undercharged battery	Breakdown notice None	None	
MEVD17.2 BN2000	343951	14517	Intelligent battery sensor (IBS), Current measurement erroneous	The diagnostic system classifies the BSE current measurement.	PI05F	Battery Sensor, Current Error			Potential problem source(s) - BSE defective	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- If the diagnostic fault code has been entered with a frequency > 3 in a present continuously - Replace the BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Anything from no symptoms to breakdown from undercharged battery	Breakdown notice None	None	
MEVD17.2 BN2000	343963	14518	Intelligent battery sensor (IBS), Wake-up via short to ground	L4: The diagnostic function monitors the wake-up via L4: Defect in wake-up wire from BSE to junction bus electronics					Potential problem source(s) - L4 Defect in wake-up wire - L4 Defect in wake-up wire from BSE to junction bus electronics	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	none	0 min.	- L4 Defect in wake-up wire - L4 Check wake-up wire from BSE to junction bus electronics	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None	
MEVD17.2 BN2000	343964	14519	Intelligent battery sensor (IBS), Wake-up via, local impedance	L4: The diagnostic function monitors the wake-up via L4: Defect in wake-up wire from BSE to junction bus electronics					Potential problem source(s) - L4 Defect in wake-up wire - L4 Defect in wake-up wire from BSE to junction bus electronics	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	0 min.	- L4 Defect in wake-up wire - L4 Check wake-up wire from BSE to junction bus electronics	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None		
MEVD17.2 BN2000	343984	14519	BSE: No message from intelligent battery sensor (IBS)	The diagnostic function monitors BSE bus communications with the DME.					Potential problem source(s) - Open BSE white/whitered wire between engine management control module and battery sensor - Defective battery sensor	This diagnostic fault code is logged when the fault remains present for longer than 1 min.	none	none	none	none	0 min.	- Open BSE white/whitered wire between engine management control module and battery sensor - Check BSE bus between BSE and DME/ECU - Check BSE bus of other components on BSE bus - Defective battery sensor - Replace BSE	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Anything from no symptoms to breakdown from undercharged battery	Breakdown notice None	None		
MEVD17.2 BN2000	343906	14506	Active engine mount, electrical Short circuit to B+	The diagnostic function monitors the wire from the DME to the engine mount for shorts to B+.	PI01B	Engine Mount A, Control Circuit High			Potential problem source(s) - Defective engine mount - Defective DME	This fault is logged in the control module's fault memory immediately.	none	none	none	none	none	0 min.	- Defect in wiring harness between engine mount and DME - Defective engine mount - Replace engine mount - Defective DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None	
MEVD17.2 BN2000	343907	14507	Active engine mount, electrical Short circuit to earth	The diagnostic function monitors the wire from the DME to the engine mount for shorts to ground.	PI01B	Engine Mount A, Control Circuit Low			Potential problem source(s) - Defective engine mount - Defective DME	This fault is logged in the control module's fault memory immediately.	none	none	none	none	none	0 min.	- Defect in wiring harness between engine mount and DME - Defective engine mount - Replace engine mount - Defective DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None	
MEVD17.2 BN2000	343908	14512	Active engine mount, electrical Low impedance	The diagnostic function monitors the electrical wire from the DME to the engine mount for open.	PI01B	Engine Mount A, Control Circuit Open			Potential problem source(s) - Defective engine mount - Defective DME	This fault is logged in the control module's fault memory immediately.	none	none	none	none	none	0 min.	- Defect in wiring harness between engine mount and DME - Defective engine mount - Replace engine mount - Defective DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None	
MEVD17.2 BN2000	343977	14575	Enable line, MSA, activation Short circuit to B+	The diagnostic function monitors the enable wire to the MSA start request.					Potential problem source(s) - Defect in wiring harness between CAS and DME - Defective CAS - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	none	none	none	none	0 min.	- Defect in wiring harness between CAS and DME - Defective CAS - Check wiring fault diagnosis with CAS - Continue fault diagnosis with CAS	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms MSA non-start on initial appearance of fault, No MSA start after starting internal-combustion interconnect. - MSA (automatic start-stop function) is not available. - Automatic deactivation of Terminal 15 is not enabled.	Breakdown notice None	None	
MEVD17.2 BN2000	343978	14576	Enable line, MSA, activation Short circuit to earth	The diagnostic function monitors the enable wire to the MSA start request.					Potential problem source(s) - Defect in wiring harness between CAS and DME - Defective CAS - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	none	none	none	none	0 min.	- Defect in wiring harness between CAS and DME - Defective CAS - Check wiring fault diagnosis with CAS and DME - Continue fault diagnosis with CAS - Replace DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms MSA non-start on initial appearance of fault, No MSA start after starting internal-combustion interconnect. - MSA (automatic start-stop function) is not available. - Automatic deactivation of Terminal 15 is not enabled.	Breakdown notice None	None	
MEVD17.2 BN2000	343979	14577	Enable line, MSA, activation Line disconnection	The diagnostic function monitors the enable wire to the MSA start request.					Potential problem source(s) - Defect in wiring harness between CAS and DME - Defective CAS - Defective DME	This fault is logged in the control module's fault memory immediately.	Terminal 15	none	none	none	none	0 min.	- Defect in wiring harness between CAS and DME - Defective CAS - Check wiring fault diagnosis with CAS and DME - Continue fault diagnosis with CAS - Replace DME	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms MSA non-start on initial appearance of fault, No MSA start after starting internal-combustion interconnect. - MSA (automatic start-stop function) is not available. - Automatic deactivation of Terminal 15 is not enabled.	Breakdown notice None	None	
MEVD17.2 BN2000	343908	14506	Auxiliary battery charging on	The diagnostic function monitors the auxiliary battery charging on.					Potential problem source(s) - Auxiliary battery charging not active - Auxiliary battery is defective	This fault is logged in the control module's fault memory immediately.	Terminal 15	none	none	none	none	0 min.	- Auxiliary battery charging not active - Replace auxiliary battery charging unit - Auxiliary battery is defective	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms Starting system from power steering limited	Breakdown notice None	None	
MEVD17.2 BN2000	343909	14507	Auxiliary battery charging off	The diagnostic function monitors the enable and is checking between the auxiliary battery charging unit and the auxiliary battery.					Potential problem source(s) - Defect in wiring harness between secondary battery and vehicle battery	This fault is logged in the control module's fault memory immediately.	Terminal 15	none	none	none	none	0 min.	- Defect in wiring harness between secondary battery and vehicle battery - Check wires and wiring shield between secondary battery and vehicle battery	- Limp of - ECE electronic engine power reduction of - CC message - - US emissions warning - Limp of - ECE electronic engine power reduction of - CC message -		Possible apparent symptoms None	Breakdown notice None	None	







