

## Computers and Control Systems: Diagnostic Trouble Code Tests and Associated Procedures

### Diagnostic Trouble Code (DTC) Information

1	Fault code (USA) Display on generic scan tool	<b>P202F</b> CAN message from ABC control module (N51/2) missing or faulty ( <b>P0600</b> )
2	Fault storage  Activation of malfunction indicator lamp for engine diagnosis (EURO3/4) or CHECK ENGINE (MIL) (USA)	after the end of the test period and faults  no activation
3	Frequency of the test	continuous
4	Checked signal or status  Test duration	The engine speed, intake-air temperature and control unit coding data are exchanged between the engine control unit and the ABC control module. This communication is monitored.  approx. 10 s

1	Fault code (USA) Display on generic scan tool	<b>P2030</b> CAN message from electronic selector lever module control module (N15/5) missing or faulty ( <b>P0600</b> )
2	Fault storage  Malfunction indicator lamp actuation - engine diagnosis (EURO4) - CHECK ENGINE (MIL) (USA)	after the end of the test period and faults  - no actuation - after two successive driving cycles with faults
3	Frequency of the test	continuous
4	Checked signal or status  Test duration	The selector lever position is detected by the selector lever module for the engine control unit at the floor shift and transmitted via CAN.  approx. 10 s

1	Fault code (USA) Display on generic scan tool	<b>P2031</b> CAN message from steering column module (N80) missing or faulty ( <b>P0600</b> )
2	Fault storage  Activation of malfunction indicator lamp for engine diagnosis (EURO3/4) or CHECK ENGINE (MIL) (USA)	after the end of the test period and faults  no activation
3	Frequency of the test	continuous
4	Checked signal or status  Test duration	The signals from the pushbutton switch for cruise control with variable speed limiter (S40/4) or from cruise control pushbutton switch (S40; (USA)) are detected at the steering column module (N80) and sent to the engine control unit via the CAN.  approx. 10 s

1	Fault code (USA) Display on generic scan tool	<b>P2036</b> CAN message from ESP control module (N47-5) faulty or missing ( <b>P0600</b> )
2	Fault storage  Malfunction indicator lamp actuation - engine diagnosis (EURO3/4) - CHECK ENGINE (MIL) (USA)	after the end of the test period and faults  - no actuation - after two successive driving cycles with faults
3	Frequency of the test	continuous
4	Checked signal or status  Test duration	Data interchange between the engine control unit and the EPS control module is monitored.  approx. 10 s

1	Fault code (USA) Display on generic scan tool)	<b>P2037</b> CAN message from ETC control module (N15/3) missing or faulty ( <b>P0600</b> )
2	Fault storage  Malfunction indicator lamp actuation - engine diagnosis (EURO3/4) - CHECK ENGINE (MIL) (USA)	after the end of the test period and faults  - no actuation - after two successive driving cycles with faults
3	Frequency of the test	continuous
4	Checked signal or status  Test duration	The engine speed, accelerator-pedal position, engine torque, shifting point displacement (e.g. due to TWC heating), engaged gear, control unit coding or exhaust-relevant transmission fault data are exchanged between the engine control unit and the ETC control module. This communication is monitored.  approx. 10 s

1	Fault code (USA) Display on generic scan tool)	<b>P203E</b> CAN message from instrument cluster (A1) missing or faulty ( <b>P0600</b> )
2	Fault storage  Malfunction indicator lamp actuation - engine diagnosis (EURO3/4) - CHECK ENGINE (MIL) (USA)	after the end of the test period and faults  - no actuation - after two successive driving cycles with faults
3	Frequency of the test	continuous
4	Checked signal or status	Data interchange between the instrument cluster and the engine control unit is monitored.