



BMW 118i - ignition switches itself off

Data sheet	
Manufacturer	BMW
Vehicle model	118i F20
Engine	1.6i
Engine code	N13
Year of manufacture	2011 to 2015
Symptoms	Ignition switches itself off after a short time
Recommended HGS tool	megamacsX

Important safety information

Ignition cannot be switched on – communication error with engine control unit (DME)

With the above-mentioned vehicle type, it can happen that the ignition cannot be switched on or only for a short time. The engine may also shut off at times. Communication errors are increasingly stored in the error memory, indicating that data from the engine control unit is missing.

If no definite faults have been detected in the periphery of the affected systems during the diagnosis, special attention should be paid to the main earthing connections on the gearbox and also on the engine.

As a result of their unprotected location, these cables can be corroded by external weather influences such as rain and road salt.

As a result, the contact becomes faulty or individual wires in the cable break, which reduces the cable cross-section. The faulty earth connection can cause the battery voltage to collapse briefly

or completely under load on the control unit, which then disrupts communication between the control units.




In the course of further troubleshooting, all main earth connections must be visually checked for defects. If there are no visible defects, a voltage loss test should be carried out using a suitable measuring device.





If anomalies can be detected visually or if measurements are out-of-spec, replacing the affected cable can remedy the problem.



Once the cause of the fault has been rectified, delete the error memory and then carry out a test drive.



Please note

Please always follow the vehicle manufacturer's repair instructions when carrying out such work! This fault pattern can also occur in other vehicle models with a comparable equipment variant.

 BMW 118i F20
14.45V



BMW / 1 Ser. - F20 11--> / 118i F20 / Trouble codes  

 Trouble codes: 14226597 (1/2) 

Trouble codes

Trouble codes: 14226597 / (Original trouble code: D914A5)
CAN bus connection to engine ECU



Data for engine torque missing/wrong

Function:
➤ Engine system and often individual components (oil sensor etc.) exchange data with other system ECUs through the engine CAN bus.

Info:
Data transfer via CAN but not via "normal" data lines can be recognised by the cable type. A CAN bus mostly consists of two cables, which are twisted and interlaced to compensate possible interferences.

General trouble code diagnostics

Possible effects:
➤ data exchange disturbed
➤ Incorrect function of cross-linked systems
➤ Jerking
➤ Fault lamp on (possibly)

 Deleting fault codes  Measurements

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