

12 51 001

Replacing wiring harness section for engine (N55)**Important!**

Aluminium screws/bolts must be replaced each time they are **released**.

Aluminium screws/bolts are permitted with and without colour coding (blue).

For reliable identification:

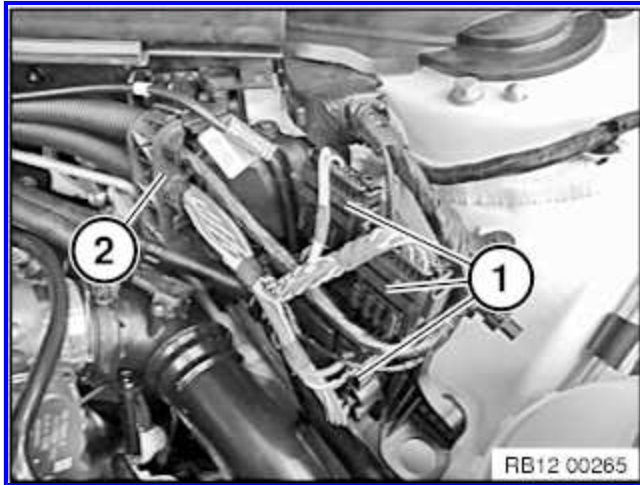
Jointing torque and angle of rotation must be observed without fail (**risk of damage**).

**Important!**

Read and comply with notes on [protection against electrostatic discharge \(ESD protection\)](#).

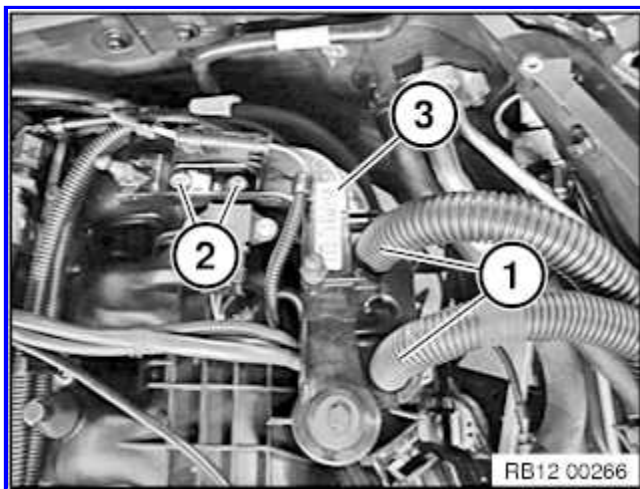
*Necessary preliminary tasks:*

- Read out the fault memory of the DME control unit.
- Switch off ignition.
- Disconnect [negative battery cable](#).
- [Remove](#) sound insulation bulkhead upper part, centre.
- Remove intake [plenum](#).
- Partially detach [wiring harness](#) for injectors and ignition coils.
- Remove [fan cowl](#).
- Remove front [underbody protection](#).
- Remove rear [underbody protection](#)



Unlock and pull off connector (1) from power distribution module and cable clips.

Release clamp (2) and expose wiring harnesses.

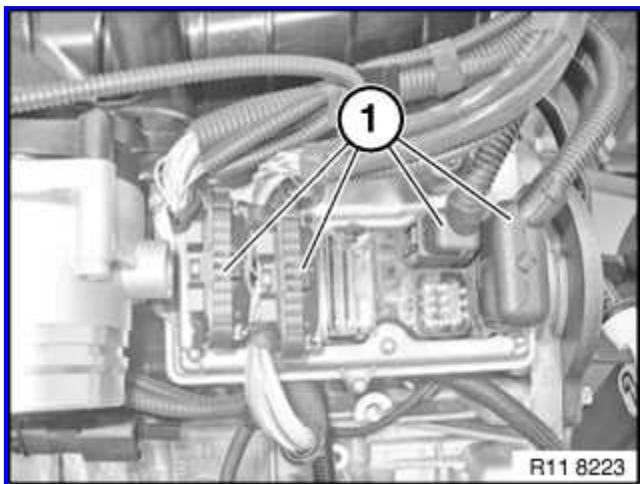


Release wiring harnesses (1) from cable clip.

Unfasten screws (2).

Unlock and pull off connector (3) from cable clip.

Put cable clip aside.



Unlock all connectors (1) from control unit and disconnect.

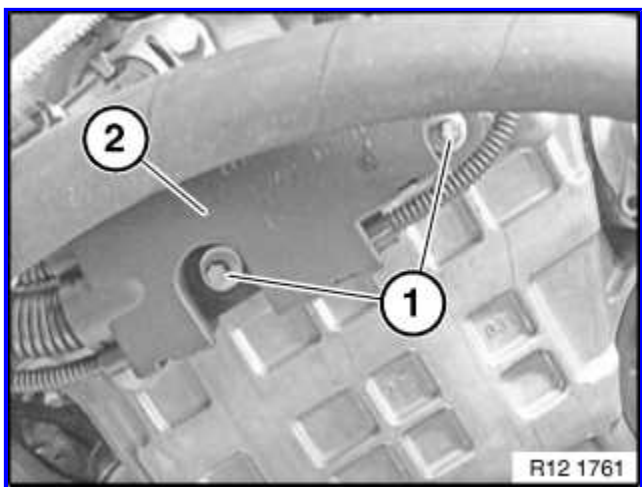
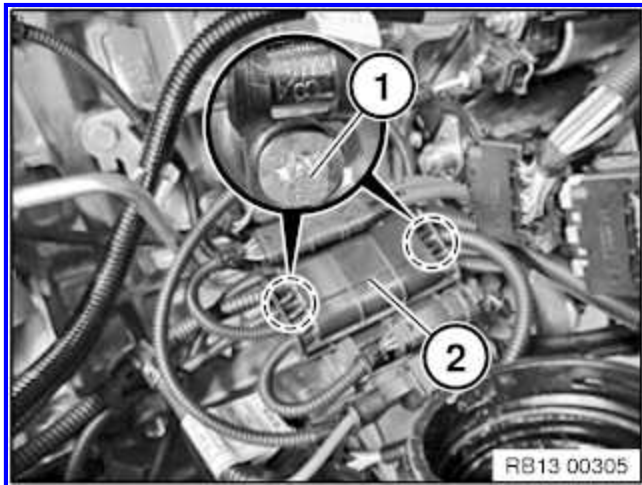
Installation note:

Make sure grommets are correctly fitted (watertightness).

Release screws (1) below cable channel (2).

Replace aluminium screws.

Tightening torque [13 53 10AZ](#).



Release screws (1).

Tightening torque [12 90 4AZ](#).

Release cable channel (2).

Installation note:

Reconnect the earth connection.

Replace aluminium screws.

Unlock and disconnect following connectors and lines

Unlock connector on charging pressure sensor and disconnect

Unlock connector on hot film air mass meter and disconnect

Unlock connector on intake pressure sensor and disconnect

Unlock connector on oxygen sensor and disconnect

Unlock connector on monitoring sensor and disconnect

Unlock connector on pressure converter and disconnect

Unlock connector on high-pressure fuel sensor and disconnect

Unlock connector on tank vent valve and disconnect

Unlock connector on starter motor and disconnect

Unlock connector on the knock sensors and disconnect

Unlock connector on oil temperature sensor and disconnect

Unlock connector on fuel low-pressure sensor and disconnect	
Unlock connector on throttle body and disconnect	
Unlock connector on high pressure pump and disconnect	
Unlock connector on alternator and disconnect	
Unlock connector on air conditioning compressor and disconnect	
Unlock connector on oil level sensor and disconnect	
Unlock connector on crankshaft sensor and disconnect	
Unlock connector on heating element for air duct and disconnect	
Unlock connector on coolant thermostat and disconnect	
Unlock connector on hydraulic valve and disconnect	
Unlock connector on the coolant pump and disconnect	
Unlock connector on exhaust turbocharger and disconnect	
Unlock connector on both camshaft adjustment solenoid valves and disconnect	
Release earth cable on crankcase lower section Tightening torque 12 90 2AZ .	
Release earth cable at rear of cylinder head Tightening torque 12 90 3AZ .	
Unlock connector on intake camshaft pulse sensor and disconnect	
Unlock connector on exhaust camshaft pulse sensor and disconnect	
Unlock connector on oil pressure switch and disconnect	
Unlock connector on switching motor for eccentric shaft and disconnect	

Release wiring harness if necessary from existing clips and clamps.

Feed out wiring harness and remove.



Installation note:

Check wiring harness installation arrangement.

Check plug connections for correct fit.

Check stored fault message.

Delete fault memory.