

11 00 ... **Handling components after flood damage**

Flood damage can occur if the permissible fording depth of a vehicle is exceeded. Ingress of water can cause damage to the engine (water shock) or components.

Because dirt particles generally enter into the component with the water (e.g. starter motor, wiring harness), the components need to be thoroughly inspected.

Residual moisture in the components leads to corrosion (increased contact resistance in the component), which can lead to a component failure at a later time.

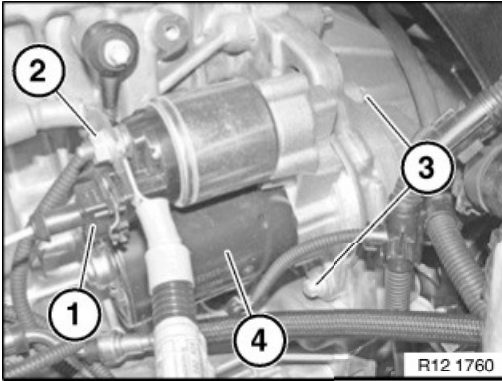
If water ingress into the electrical components cannot be ruled out, it is recommended to replace the component to ensure correct functioning through the vehicle lifetime.

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**Necessary preliminary tasks:**

- Read out the fault memory of the DME control unit.
- Switch off ignition.
- Disconnect battery negative lead.
- Remove intake plenum.



Unlock connector (1) and remove.

Release nut (2) and disconnect positive battery cable (3).

Tightening torque 12 42 2AZ.

Release bolts (3) and remove starter.

Tightening torque 12 41 1AZ.

**Installation note:**

Check starter pinion and ring gear for damage, replace starter motor if necessary.

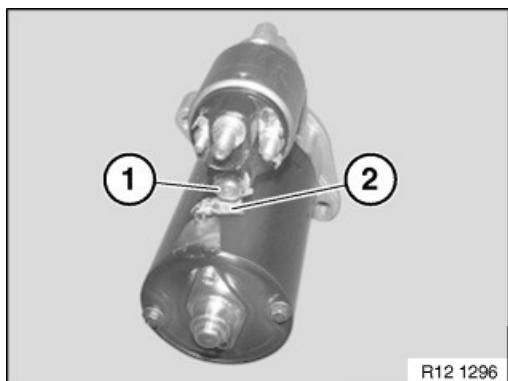
**Only during starter replacement and on vehicles with MSA (automatic engine start-stop function):**

- Use BMW diagnosis system to reset the starter counter.



**Necessary preliminary work:**

- Switch off ignition.
- Remove starter motor.



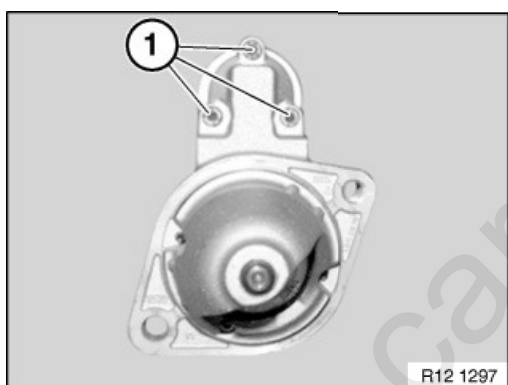
Slacken nut (1).

Remove the cable shoe (2).

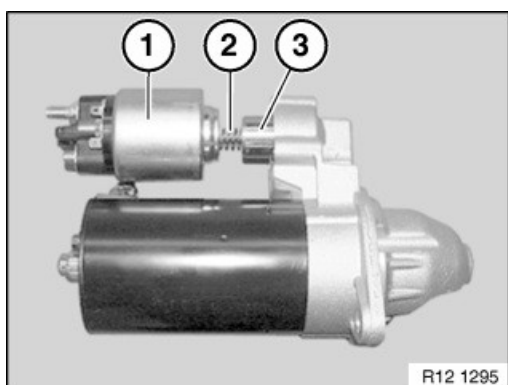
Attention!

Do not twist the cable shoe (2) when tightening, risk of shorting to starter motor housing.

Tightening torque 12 41 1AZ.



Release screws (1).



Remove the solenoid switch (1) and the spring (2).

Detach the bolt (3).

Installation note:

Check the bolt (3) for wear and grease the bolt.

