

00 11 237 Checking/topping up oil level in automatic transmission

Overview of Activities

Additional Information

Preliminary Work

1 Removing rear underbody protection

2 Removing rear underbody protection

Main Work

3 Checking/topping up oil level in automatic transmission



Postprocesses

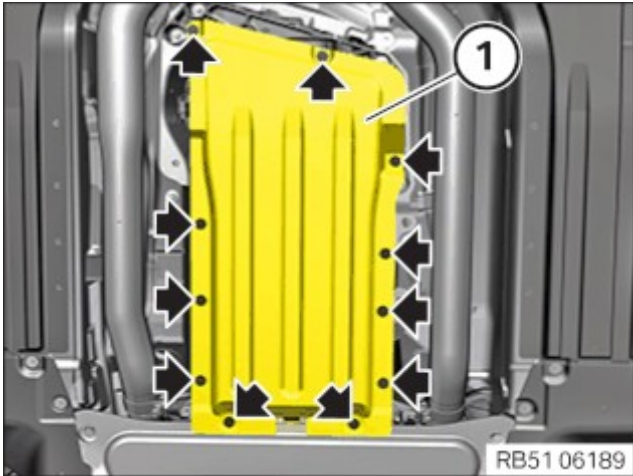
4 Installing underbody protection at rear

5 Installing underbody protection at rear

General information

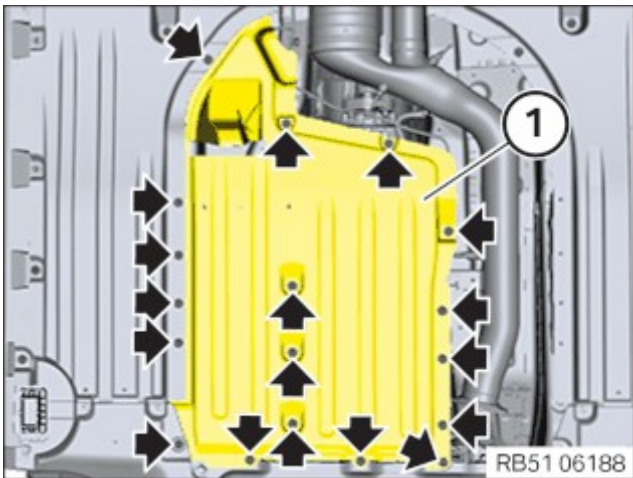
PRELIMINARY WORK

1-Removing rear underbody protection



- Remove screws (arrows).
- Guide out underbody protection (1) and remove it.

2-Removing rear underbody protection



- Remove screws (arrows).
- Guide out underbody protection (1) and remove it.

MAIN WORK

3–Checking/topping up oil level in automatic transmission

[Additional information is available.](#)

Prerequisite

Vehicle is in a horizontal position.

The vehicle is secured against rolling away.

CAUTION

Materials harmful to health.

Contact with fluids harmful to health!

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.

TECHNICAL INFORMATION

To set the correct oil level, it is mandatory that the service function "Transmission control unit: Oil-level adjustment" is carried out with the diagnosis system.

TECHNICAL INFORMATION

Carry out oil-level adjustment:

Certain fault memory entries may require an oil-level adjustment in the automatic transmission and after repairs have been completed (e.g. exchange of mechatronics, exchange of the converter, exchange of the transmission, automatic transmission oil service).

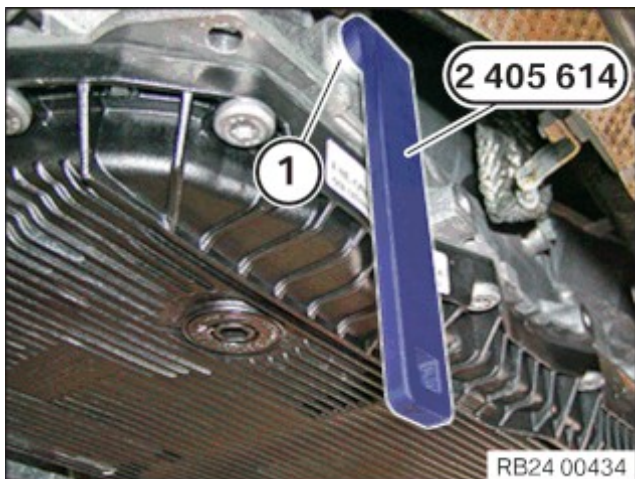
TECHNICAL INFORMATION

The automatic transmission fluid specified by BMW must be used for the automatic transmission.

For additional information see: SBS-ANL-SBS1996-240596143_A14 (automatic transmission fluid for ZF transmissions, etc.)

- Connect diagnosis system.
- Observe the predefined transmission oil temperatures for the oil-level adjustment with the diagnosis system:

- Initial condition: Transmission oil temperature 30°C to 40°C.
- Final condition: Transmission oil temperature 40°C to 50°C.
- Call up service function (drive).
- Carry out oil-level adjustment in accordance with the instructions.
- Loosen the oil filler plug (1) using the special tool **2 405 614**.
- Top up automatic transmission fluid according to the instructions in the diagnosis system.



GA8HP50Z transmission capacity

min. 8,8 l

Transmission oil : [Automatic transmission fluid ATF 3+](#)

GA8HP51Z transmission capacity

min. 9,28 l

Transmission oil : [Automatic transmission fluid ATF 3+](#)

Transmission capacity GA8HP75Z/GA8HP75HZ

min. 8.7 l

Transmission oil : [Automatic transmission fluid ATF 3+](#)

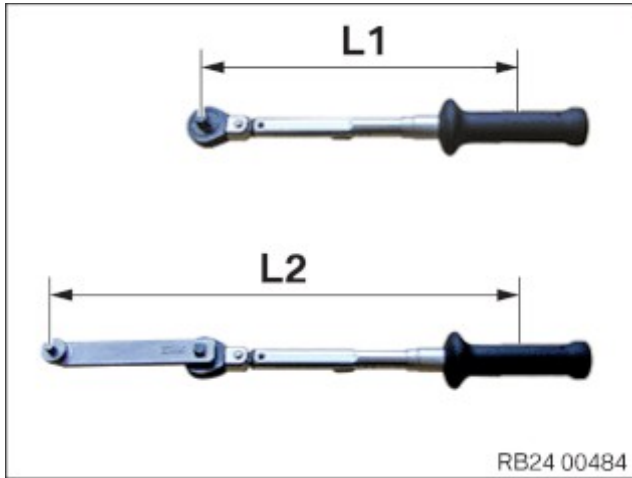
GA8HP76Z transmission capacity

min. 9,35 l

Transmission oil : [Automatic transmission fluid ATF 3+](#)

TECHNICAL INFORMATION

The setpoint torque deviates from the torque to be set when using special tool 2 405 614.

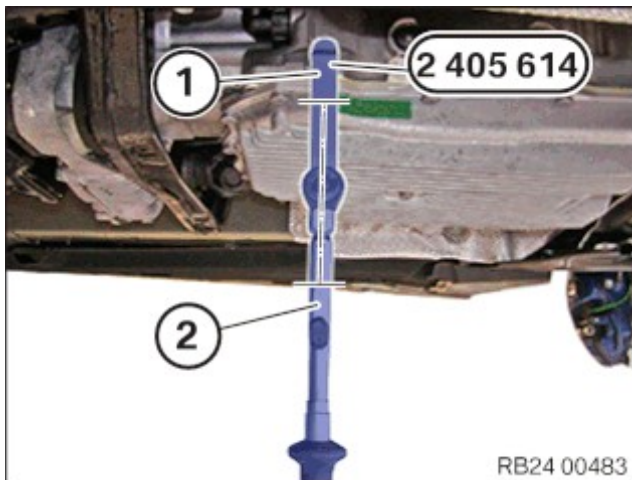


- Converting the setpoint torque into the torque to be set:

(setpoint torque x L1) : L2 = Torque to be set

L1 = Length from the centre of the handle to the reversible ratchet head

L2 = Length from the centre of the handle to the engaging of the special tool in the bolt



- Renew the oil filler plug (1) and the sealing ring.

Parts: Oil filler plug, sealing ring

- Make sure that the special tool **2 405 614** and the torque wrench (2) align while tightening the oil filler plug (1).
- Tighten the oil filler plug (1) with the special tool **2 405 614** and the torque wrench (2).

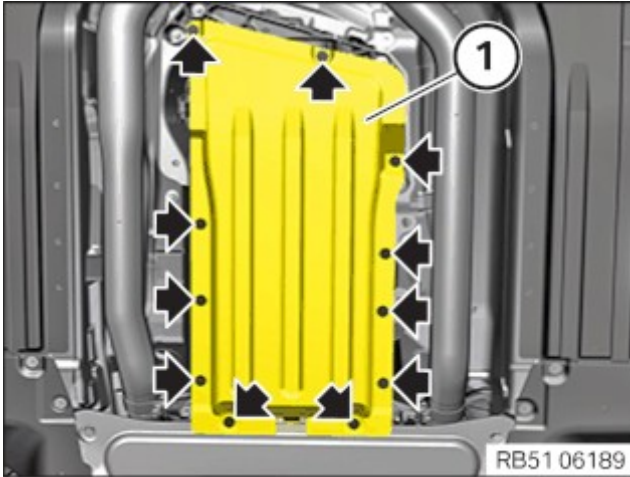
Oil filler plug



M18x1.5		Tightening torque	35 Nm
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POSTPROCESSES

4–Installing underbody protection at rear



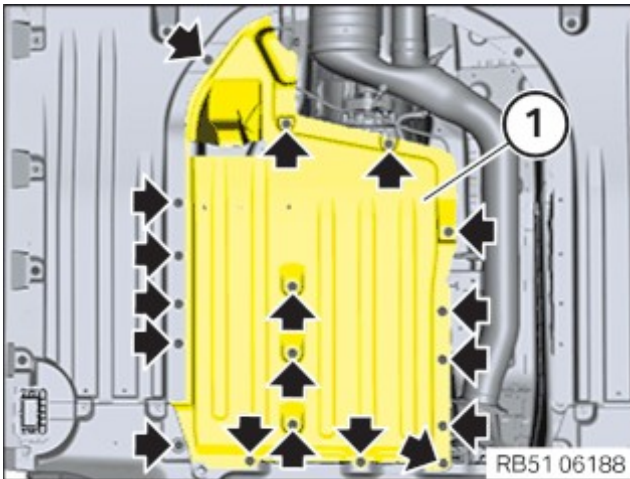
- Guide in underbody protection (1) and position it correctly.
- Tighten screws (arrows).

Underbody panelling/frame



Hexagon screw	Tightening torque	3 Nm
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5–Installing underbody protection at rear



- Guide in underbody protection (1) and position it correctly.
- Tighten screws (arrows).

Underbody panelling/frame



Hexagon screw	Tightening torque	3 Nm
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