

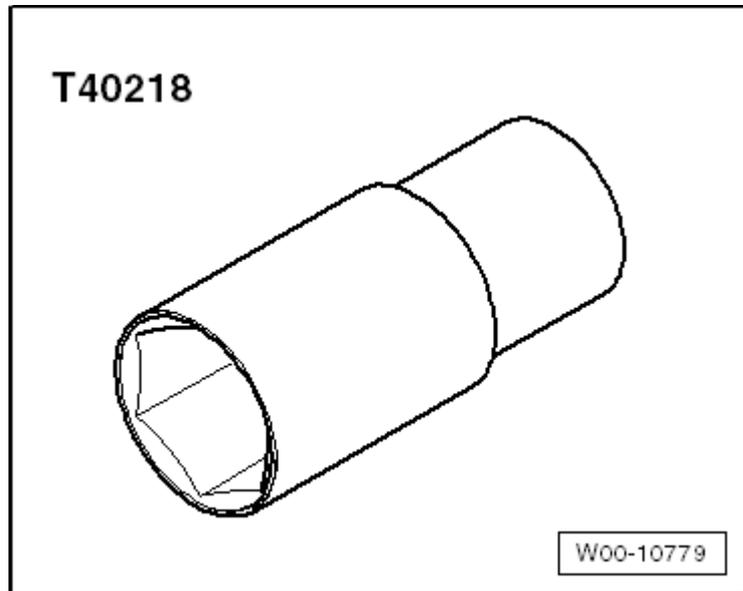
Removing and installing oil pressure and oil temperature sender -G437- or oil pressure and oil temperature sender 2 -G640-, 0BE, 0BF

Special tools and workshop equipment required

- ◆ Socket (27 mm) -T40218-
- ◆ Vehicle diagnostic tester

Important safety precautions:

- ◆ After renewing the oil pressure and oil temperature sender -G437- or the oil pressure and oil temperature sender 2 -G640-, the identity of the corresponding sender must be re-adapted in the all-wheel drive control unit -J492- → [Vehicle diagnostic tester](#).
- ◆ Do not renew both oil pressure and oil temperature senders (-G437- and -G640-) at the same time, as at least one valid sender identity is required at any time for the allocation of the rear final drive to the all-wheel drive control unit -J492-. If both senders are renewed at the same time, the all-wheel drive control unit -J492- would interpret this as the replacement of the rear final drive. This would erase all the learnt values in the control unit and impair the performance of the rear final drive.
- ◆ If both oil pressure and oil temperature senders (-G437- and -G640-) have to be renewed due to mechanical damage, e.g. damage to the connector housing, this should be done in two steps: After the first sender has been renewed, the identity of the sender must be re-adapted in the all-wheel drive control unit -J492- → [Vehicle diagnostic tester](#). Proceed in the same manner for the second sender.
- ◆ If both oil pressure and oil temperature senders (-G437- and -G640- have to be renewed due to an electrical fault, the clutch classification must be entered again in the all-wheel drive control unit -J492- → [Vehicle diagnostic tester](#). In addition, the ATF in the rear final drive must be renewed → [Chapter](#).



Note

- ◆ Refer to general repair instructions → [Chapter](#).
- ◆ Observe safety precautions → [Chapter](#).

Removing

- Ignition is switched off.

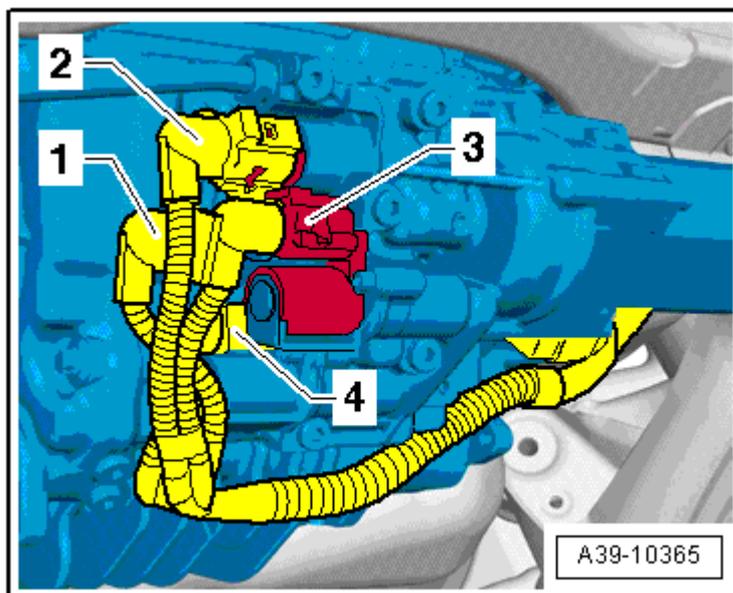
- Place vehicle on lifting platform.
- Lower rear section of exhaust system slightly and secure.
- If necessary, remove bracket for wiring harness from rear final drive → **Anchor**.
- Unplug connector -1- from oil pressure and oil temperature sender 2 -G640- / connector -2- from oil pressure and oil temperature sender -G437-.



Note

If necessary, unplug connectors -3- and -4-.

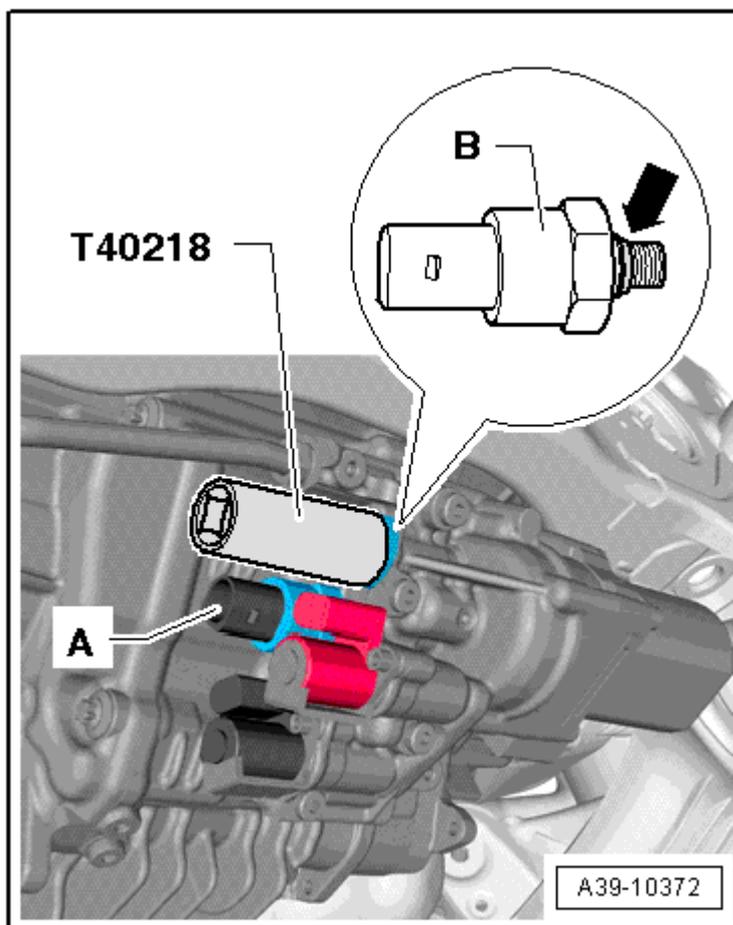
- Position drip tray under rear final drive.



- Remove corresponding sender using socket -T40218-.

-A- = oil pressure and oil temperature sender 2 -G640- - black connection

-B- = oil pressure and oil temperature sender -G437- - brown connection



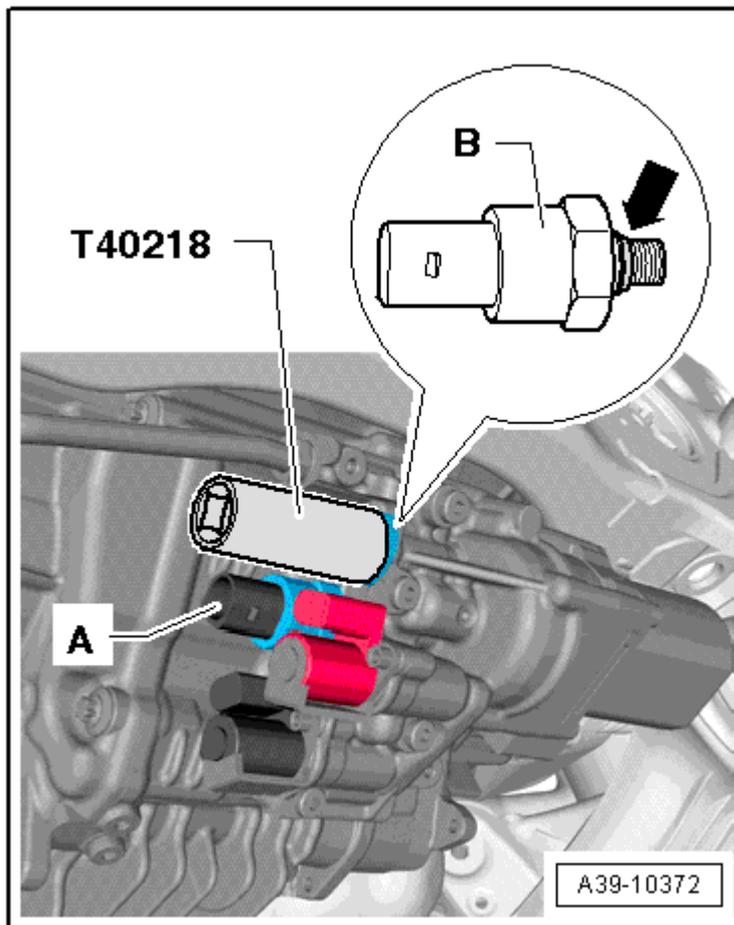
Installing

-

Carefully screw in new sender with new O-ring -arrow- at its fitting location and tighten to specified torque → **Item** or → **Item**.

-A- = oil pressure and oil temperature sender 2 -G640- - black connection

-B- = oil pressure and oil temperature sender -G437- - brown connection

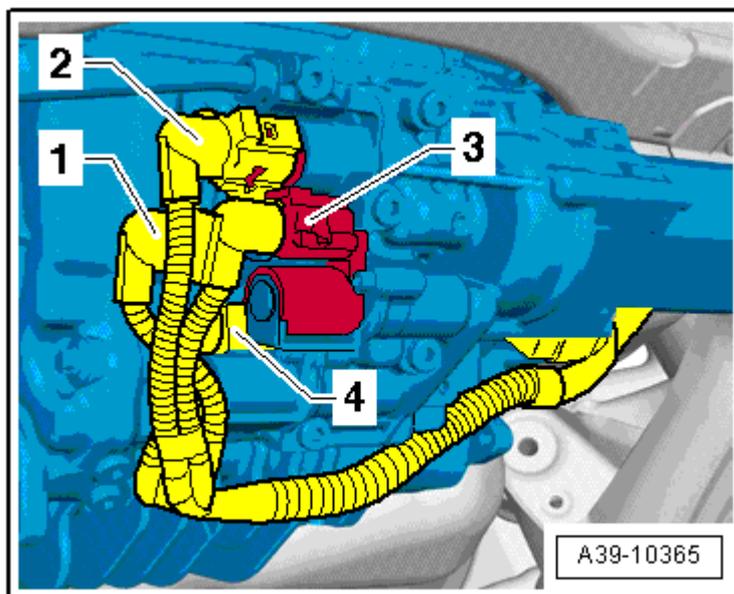


- Plug in connector -1- at oil pressure and oil temperature sender 2 -G640- / connector -2- at oil pressure and oil temperature sender -G437-.

Note

If unplugged earlier, plug in connectors -3- and -4-.

- If removed earlier, install bracket for wiring harness at rear final drive → **Anchor**.
- Connect vehicle diagnostic tester and switch on ignition.
- Using vehicle diagnostic tester in **Guided Functions** mode, select **22 - Four-wheel electronics** and then select the function **22 - Adapt sender**.



- It is important to follow all instructions given by the vehicle diagnostic tester exactly.

Using the vehicle diagnostic tester, the new sender is “adapted” to the all-wheel drive control unit -J492-.

Note

When 22 - Adapt sender function has been completed, a system check is performed. Any malfunctions during this test must be eliminated via the "Guided Fault Finding".

- Top up ATF in rear final drive
→ Chapter.
- Attach rear section of exhaust system to body and perform stress-free alignment → Rep. gr.26; Exhaust pipes/silencers; Exploded view - silencers.