

Differential, removing and installing

Notes:

- ◆ General repair notes ⇒ [page 00-27](#) .
- ◆ Secure final drive to assembly stand ⇒ [page 39-123](#) .
- ◆ Adjustments are required when replacing components marked with ¹⁾ ⇒ Adjustment overview ⇒ [page 39-170](#) .

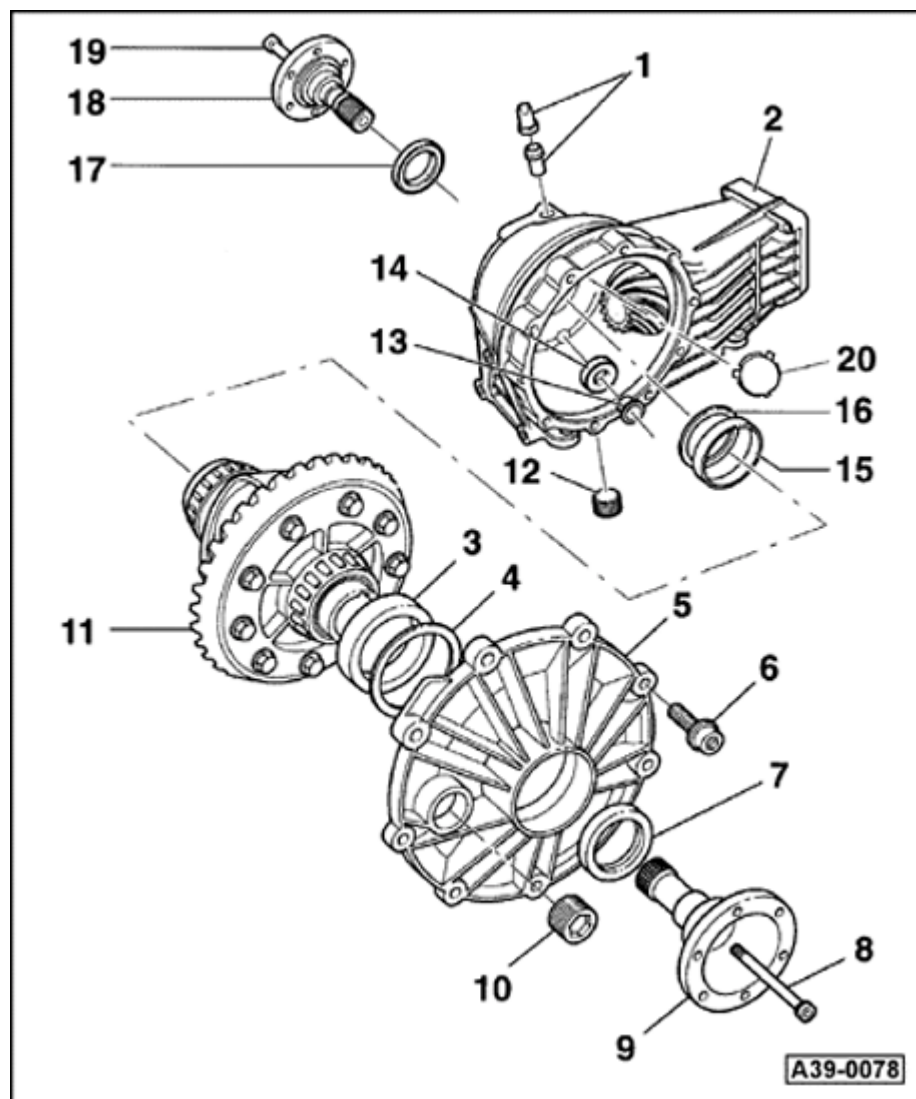
1 - Breather sleeve

- ◆ With rubber valve
- ◆ Installed position Item

2 - Final drive housing ¹⁾

- ◆ With drive pinion
- ◆ Drive pinion, removing and installing ⇒ [page 39-152](#)

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3 - Large tapered roller bearing outer race ¹⁾

◆ Driving out ⇒ [Fig. 7](#) , ⇒ [page 39-147](#)

◆ Pressing in ⇒ [Fig. 8](#) , ⇒ [page 39-148](#)

4 - Adjustment shim "S1"

◆ Note thickness

◆ Adjustment overview ⇒ [page 39-170](#)

5 - Cover for final drive ¹⁾

◆ With O-ring

◆ Replacing O-ring

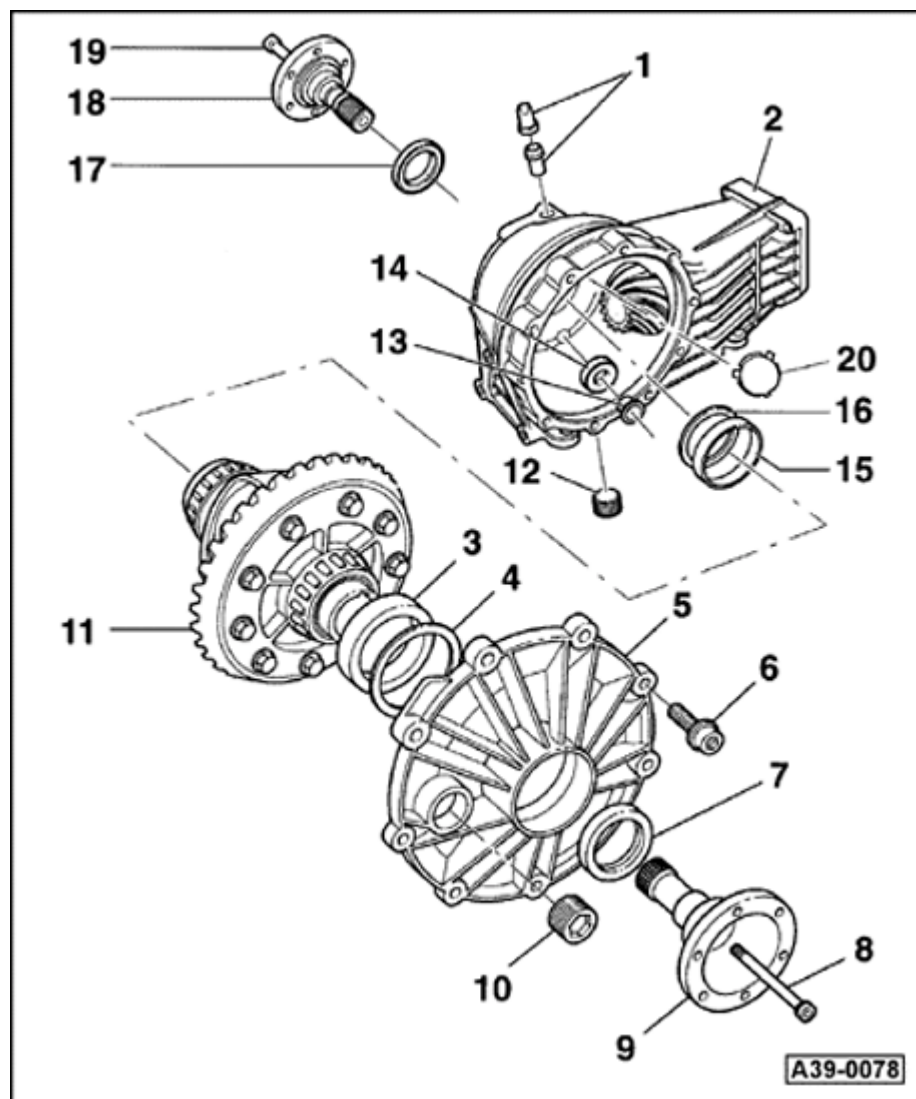
◆ Insert O-ring with oil

6 - TORX bolt - 25 Nm

7 - Right gasket

◆ Always replace ⇒ [page 39-113](#)

8 - Socket head bolt - 25 Nm

**9 - Right drive flange**

◆ Removing and installing ⇒ [Fig. 1](#)

10 - Oil filler plug - 35 Nm**11 - Differential with ring gear ¹⁾**

◆ Disassembling and assembling ⇒ [page 39-136](#)

12 - Oil drain plug - 35 Nm**13 - Socket**

◆ Holds the magnet in position

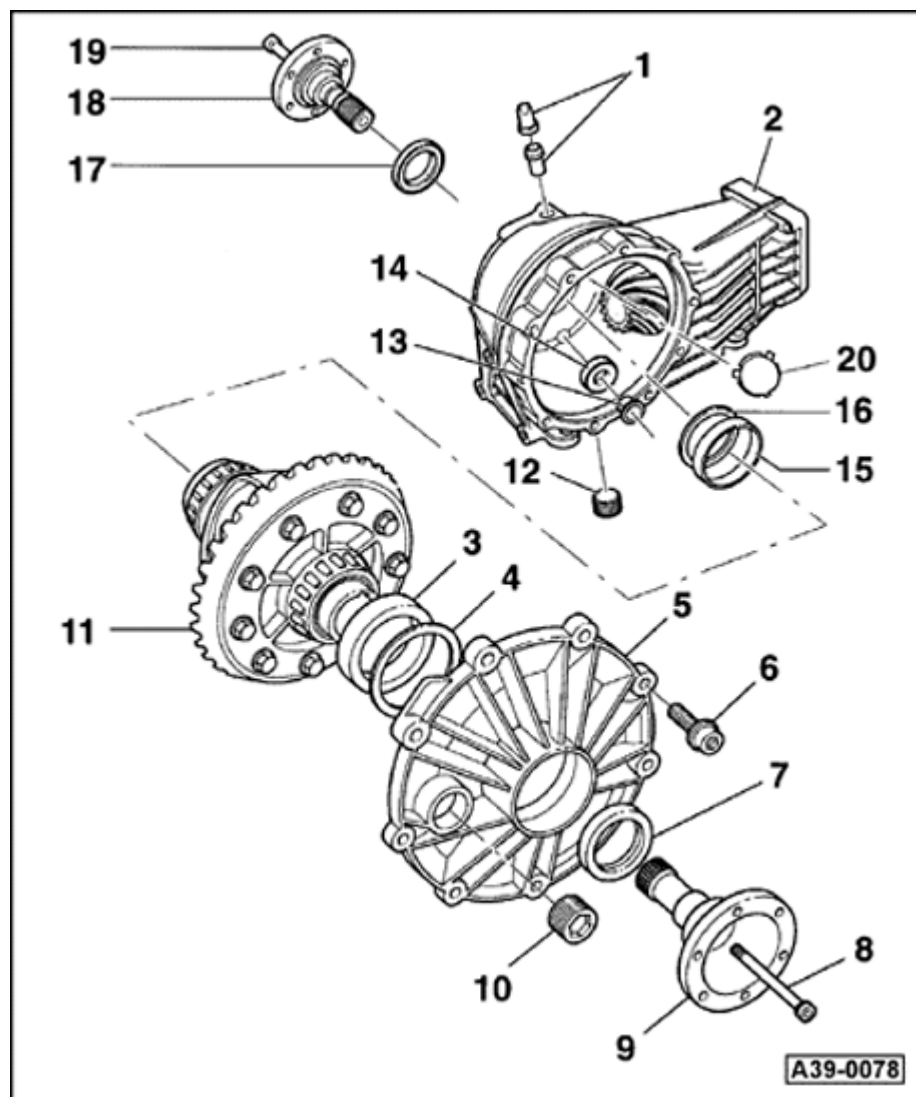
◆ Press in until stop

14 - Magnet**15 - Small tapered roller bearing outer race ¹⁾**

◆ Driving out ⇒ [Fig. 1](#) , ⇒ [page 39-144](#)

◆ Pressing in ⇒ [Fig. 2](#) , ⇒ [page 39-144](#)

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**16 - Shim "S2"**

- ◆ Note thickness
- ◆ List of adjustments ⇒ [page 39-170](#)

17 - Left gasket

- ◆ Always replace ⇒ [page 39-113](#)

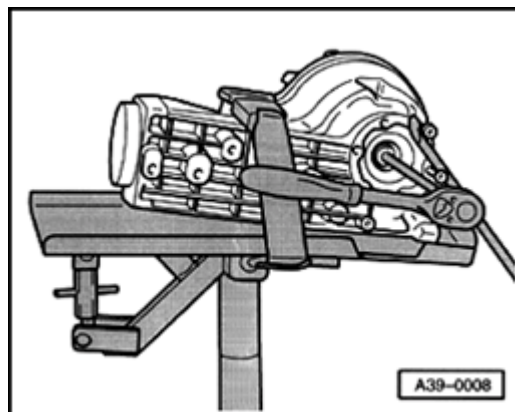
18 - Left drive flange

- ◆ Removing and installing ⇒ [Fig. 1](#)

19 - Socket head bolt - 25 Nm**20 - Cover**

- ◆ Installing ⇒ [Fig. 2](#)

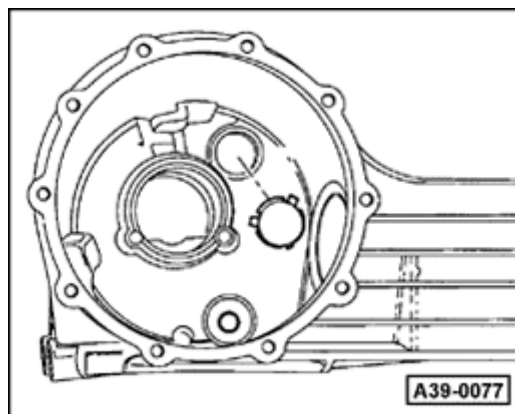
39-132



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Fig. 1 Removing and installing drive flange

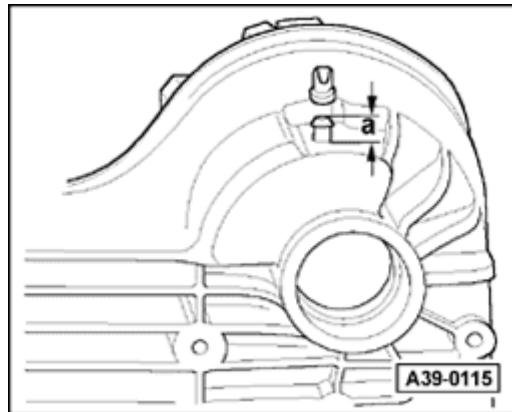
- To loosen securing bolt, thread 2 bolts into drive flange and counter hold using tire iron.
- Remove drive flange at installed bolts.



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Fig. 2 Press in cover up to stop

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Fig. 3 Installed position of breather sleeve

The breather sleeve must protrude 13 mm (measurement -a-) out of housing after pressing in.

The slot in the rubber valve is parallel to direction of travel.

Differential, removing and installing

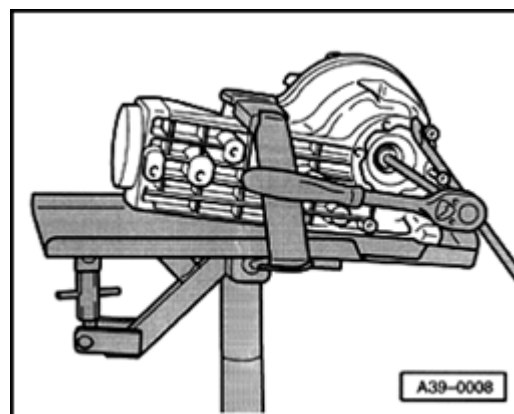
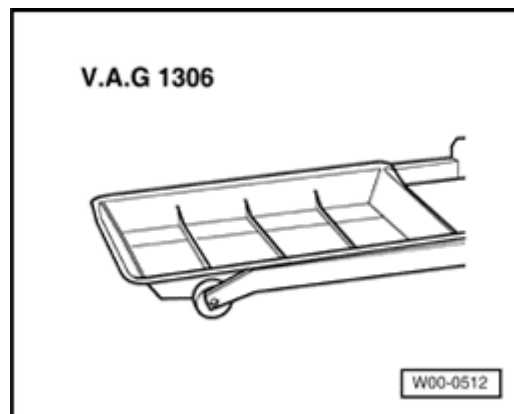
- Rear final drive removed

Special tools and equipment

- ◆ VAG1306 drip tray

Removing

- Secure complete rear final drive to assembly stand ⇒ [page 39-123](#) .
- Place VAG1306 drip tray underneath and drain gear oil.



- Remove left and right drive flanges.
- To loosen securing bolt, thread 2 bolts into drive flange and counter hold using tire iron.
- Mark left and right drive flanges.
- Remove drive flange at installed bolts.
- Remove mounting bolts for final drive cover.
- Remove final drive cover from axle housing and remove differential.

Installing

Installation is reverse of removal, noting the following:

- Install differential.
- Replace O-ring for final drive cover and oil for installation.
- Install final drive cover onto final drive housing and tighten in diagonal pattern to 25 Nm.
- Replace drive flange seals ⇒ [page 39-113](#) .
- Fill gap between sealing lip and dust lip with multi-purpose grease.
- Install drive flanges and tighten to 25 Nm.
- Top-up and check gear oil in rear final drive ⇒ [page 39-94](#) .

