

Differential, removing and installing

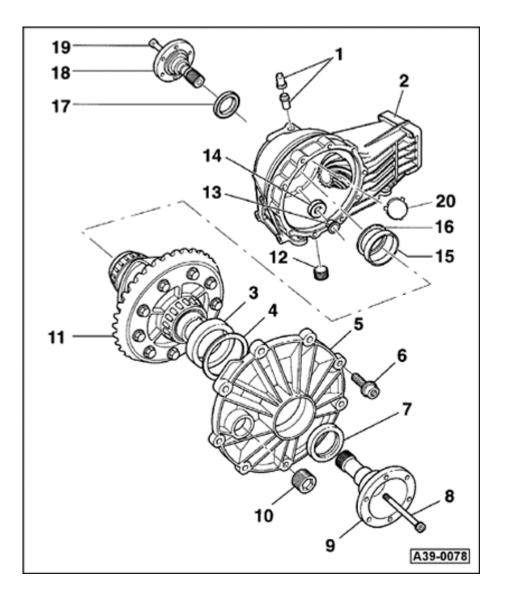
Notes:

- Refer to general repair instructions $\Rightarrow \frac{Page \ 00-14}{14}$.
- Mounting final drive to repair stand \Rightarrow <u>Page 39-110</u>.
- Adjustments are required when replacing components marked with 1) ⇒ List of adjustments, ⇒ <u>Page 39-149</u>.
 - 1 Breather sleeve
 - With rubber valve
 - Installation position \Rightarrow Fig. 3
 - 2 Final drive housing1)
 - With pinion shaft
 - Removing and installing drive pinion ⇒ Page 39-134
 - 3 Large tapered roller bearing outer race1)
 - Removing \Rightarrow Page 39-129, Fig. 7
 - Pressing in \Rightarrow Page 39-130, Fig. 8
 - 4 Shim S1
 - Note thickness

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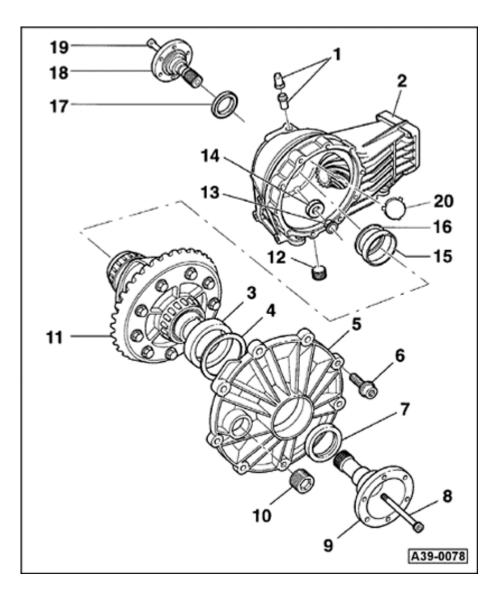
• List of adjustments \Rightarrow Page 39-149

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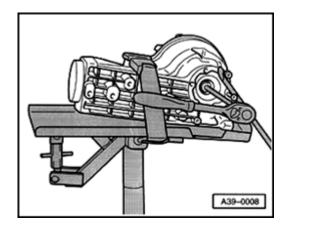
- 5 Final drive cover1)
 - Always replace O-ring
 - With O-ring
 - Lubricate O-ring with oil when installing
- 6 Torx[®] bolt
 - ◆ 25 Nm (18 ft lb)
- 7 Right seal
 - Replacing \Rightarrow Page 39-100
- 8 Socket-head bolt
 - ◆ 25 Nm (18 ft lb)
- 9 Drive flange, right
 - Removing and installing \Rightarrow Fig. 1
- 10 Oil filler plug
 - ◆ 35 Nm (26 ft lb)
- 11 Differential with ring gear1)
 - ◆ Disassembling and assembling ⇒ <u>Page</u> <u>39-121</u>
- 12 Oil drain plug
 - ◆ 35 Nm (26 ft lb)
- 13 Bushing

- Holds magnet in position
- Drive in onto stop



- 14 Magnet
- 15 Small tapered roller bearing outer race 1)
 - Removing \Rightarrow Page 39-126, Fig. 1
 - Installing \Rightarrow Fig. 2, Page 39-126
- 16 Shim S2
 - Note thickness
 - List of adjustments \Rightarrow Page 39-149
- 17 Left seal
 - Replacing \Rightarrow Page 39-100
- 18 Drive flange, left
 - Removing and installing \Rightarrow Fig. 1
- 19 Socket-head bolt
 - ◆ 25 Nm (18 ft lb)
- 20 Cover
 - Installing \Rightarrow Fig. 2

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- To loosen mounting bolt, screw in 2 bolts in drive flange and counterhold using pry bar.
- Pull out drive flange using screwed in bolts.

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Fig. 2 Press in cover onto stop

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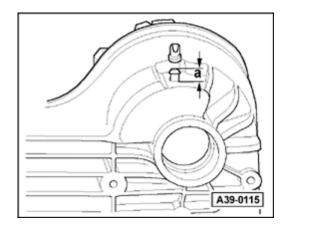


Fig. 3 Position of breather sleeve

The breather sleeve should project 13 mm (0.512 in.) dimension -a- out of final drive housing after pressing in.

The slot in the rubber valve should be in line with the direction of travel.

Removing

· Final drive removed

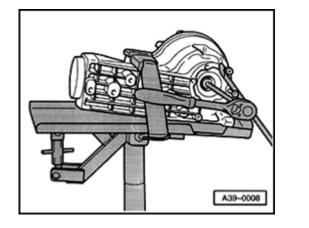
Special tools and equipment

VAG1306 drip tray

Secure complete final drive to repair stand using VW540 bracket \Rightarrow Page 39-110.

Place drip tray under final drive and drain gear oil.

- Remove left and right drive flanges:
 - To loosen mounting bolt, screw two bolts into drive flange and counterhold with pry bar.
 - Mark drive flanges (left and right).
 - Pull out drive flange using screwed in bolts.
 - Remove mounting bolts from final drive cover.
 - Remove final drive cover from final drive housing and remove differential.



Installing

Install in reverse order of removal, note the following:

- Install differential.
- Replace O-ring for final drive cover and lubricate before installing.
- Install final drive cover on final drive housing and tighten in diagonal sequence to 25 Nm (18 ft lb).
- Replace seals for drive flange $\Rightarrow \frac{\text{Page 39-}}{100}$.
- Fill space between sealing lip and dust lip with gear oil
- Install drive flanges and tighten 25 Nm (18 ft lb).
- Top off gear oil in final drive and check oil level \Rightarrow <u>Page 39-84</u>.

