

Transmission, disassembling and assembling

- Observe general repair instructions ⇒ [page 00-27](#) .

Rules of cleanliness for working on automatic transmissions

- ◆ Thoroughly clean all connections and the surrounding area before disconnecting.
- ◆ Place parts that have been removed on a clean surface and cover. Use foils and paper. Use lint-free cloths only!
- ◆ Carefully cover over opened components or seal, if repairs are not carried out immediately.
- ◆ Only install clean components: Only unpack replacement parts immediately prior to installation.
- ◆ Always replace O-rings, gaskets and sealing rings.
- ◆ Lightly lubricate O-rings before installing, this prevents the rings from being pinched when inserting.

- ◆ Use only ATF in areas near ATF. Other lubricating substances cause functional problems in the hydraulic transmission control.

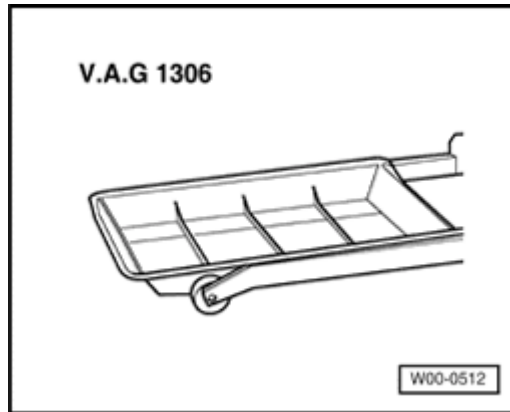
- ◆ Check the following fluid levels after installing, top off if necessary. ATF in planetary gear ⇒ [page 37-133](#) , Gear oil in front final drive ⇒ [page 39-1](#) , Transmission oil in center differential ⇒ [page 39-40](#) . Capacities and specifications ⇒ [Page 00-22](#) onward.

ATF lines, removing and installing overview

Special tools and equipment



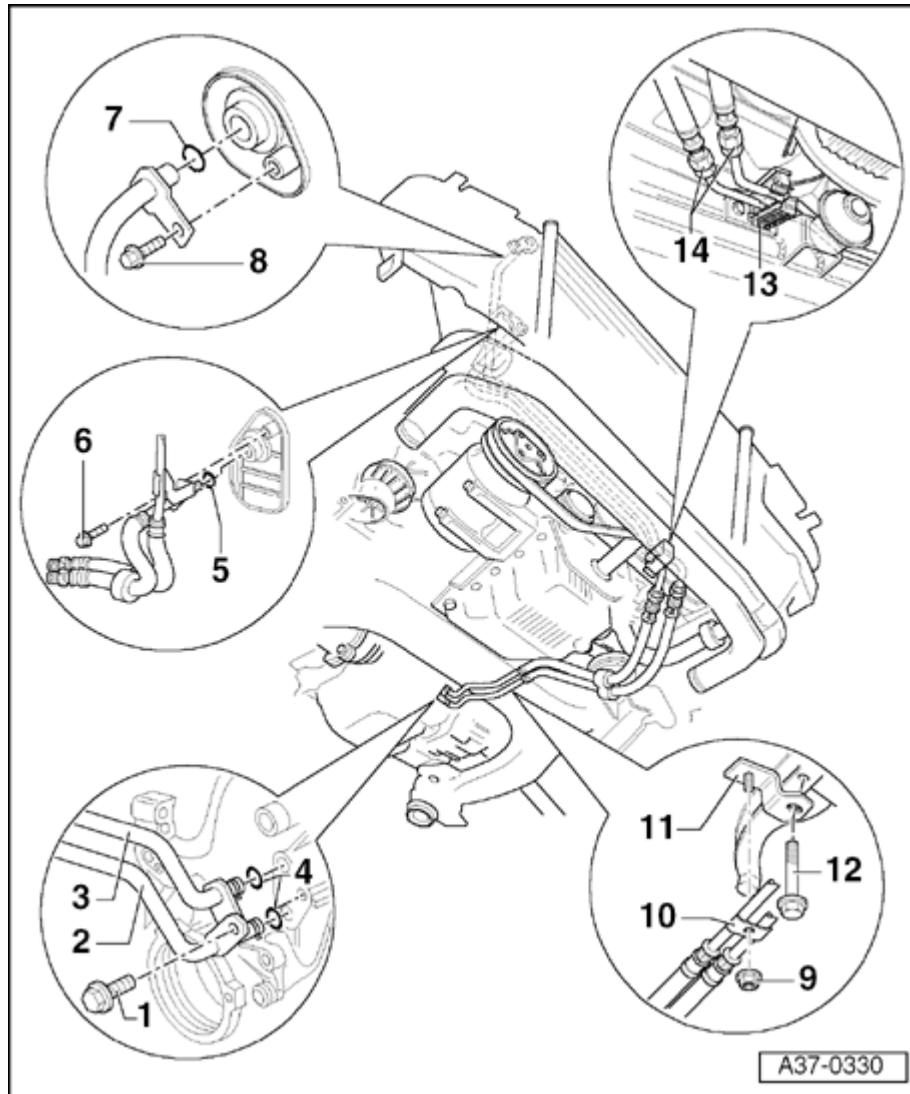
- ◆ VAG1306 drip tray



Removing and installing ATF lines for 4 cylinder gasoline engines ⇒ [page 37-150](#)

Removing and installing ATF lines for 6 cylinder gasoline engines except for 2.7 Liter 5V turbo ⇒ [page 37-152](#)

Removing and installing ATF lines for 6 cylinder 2.7 Liter 5V turbo ⇒ [page 37-154](#)



ATF lines, removing and installing, (vehicles with 4 cyl. engine)

Notes:

- ◆ Place VAG1306 drip tray underneath.

1 - Bolt (21Nm)

- ◆ Insert line until impact by hand before tightening

2 - Oil line to cooler

- ◆ Note marking on transmission housing

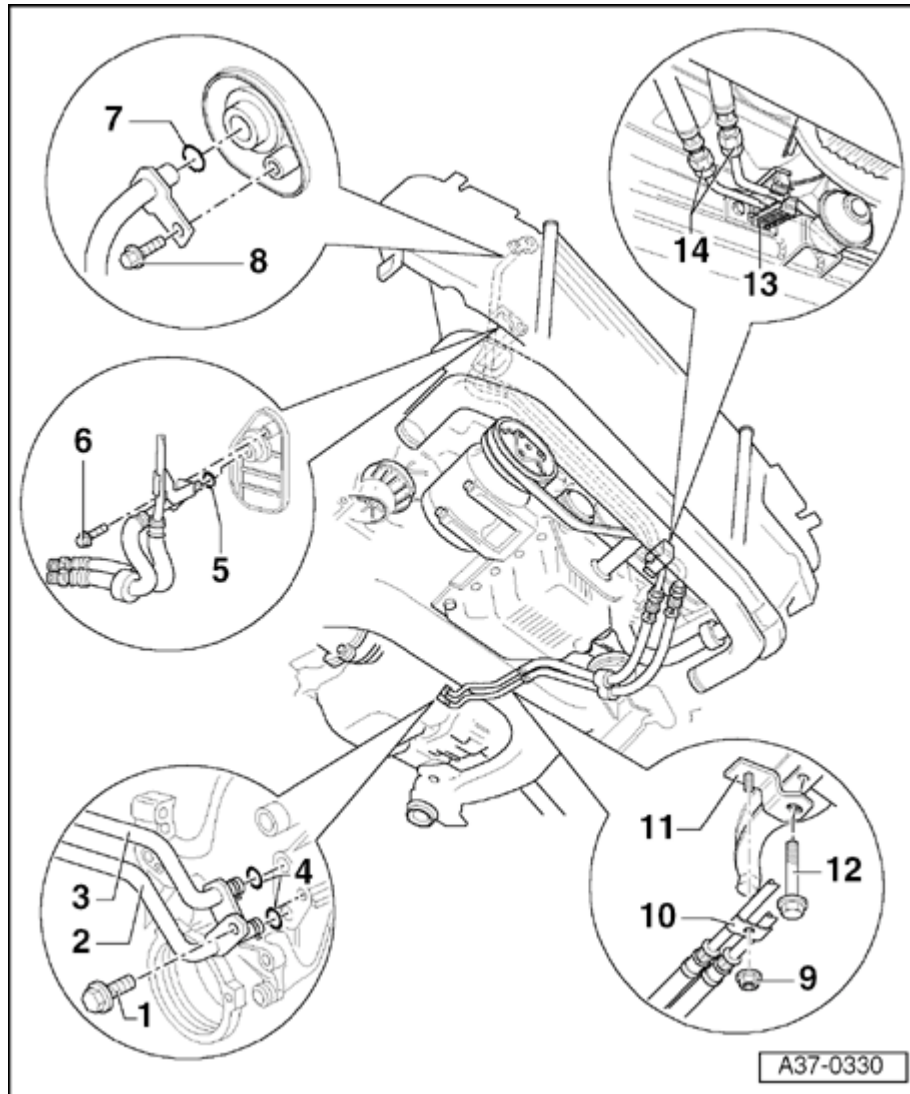
3 - Oil line from cooler

- ◆ Note marking on transmission housing

4 - O-ring

- ◆ Apply ATF when inserting
- ◆ Always replace

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**5 - O-ring**

- ◆ Apply ATF when inserting
- ◆ Always replace

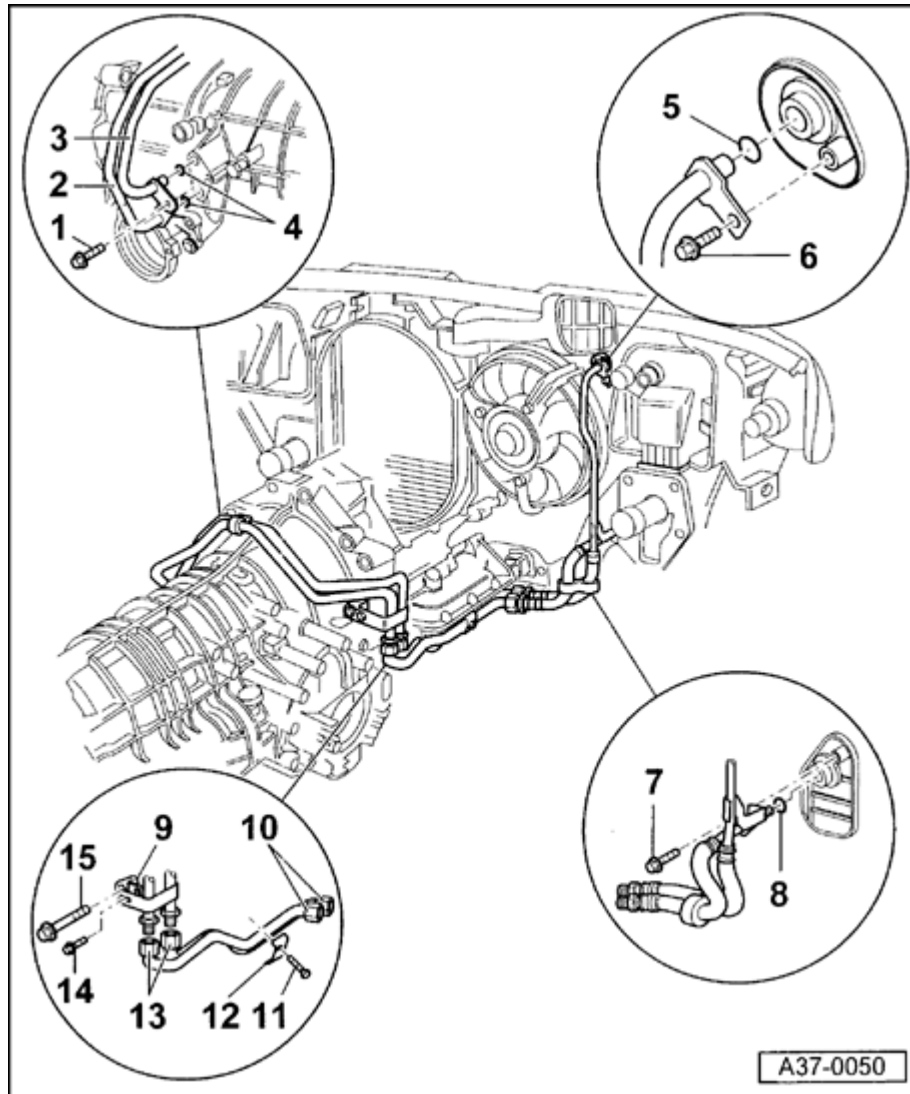
6 - Bolt (5Nm)**7 - O-ring**

- ◆ Apply ATF when inserting
- ◆ Always replace

8 - Bolt (5Nm)**9 - Nut (5 Nm)****10 - Clamp****11 - Bracket****12 - Bolt (5Nm)**

- ◆ Does not need to be removed when removing and installing ATF lines

13 - Clip bracket**14 - Union nut, 30 Nm**



ATF lines, removing and installing, (vehicles with 6 cyl. engine)

Notes:

- ◆ Place VAG1306 drip tray underneath.

1 - Bolt (21Nm)

- ◆ Insert line until impact by hand before tightening

2 - Oil line from cooler

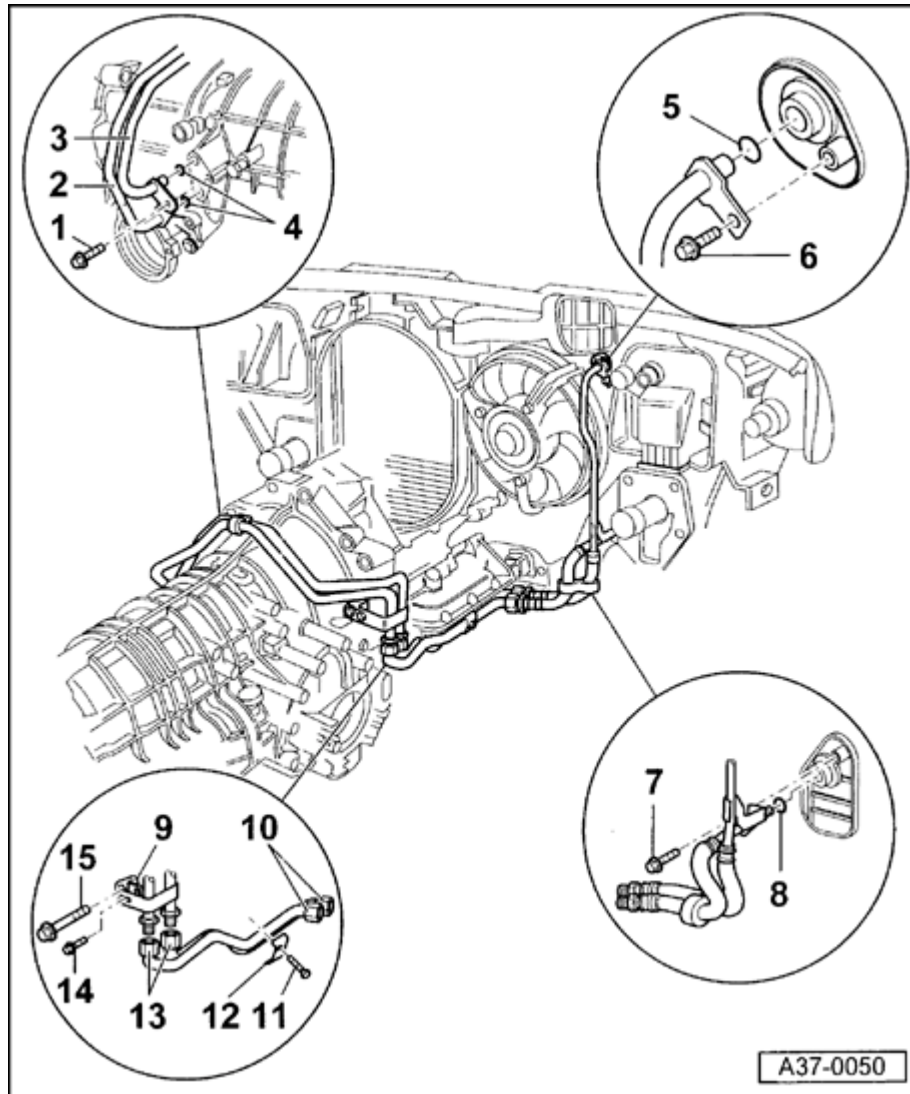
- ◆ Note marking on transmission housing

3 - Oil line to cooler

- ◆ Note marking on transmission housing

4 - O-ring

- ◆ Apply ATF when inserting
- ◆ Always replace

**5 - O-ring**

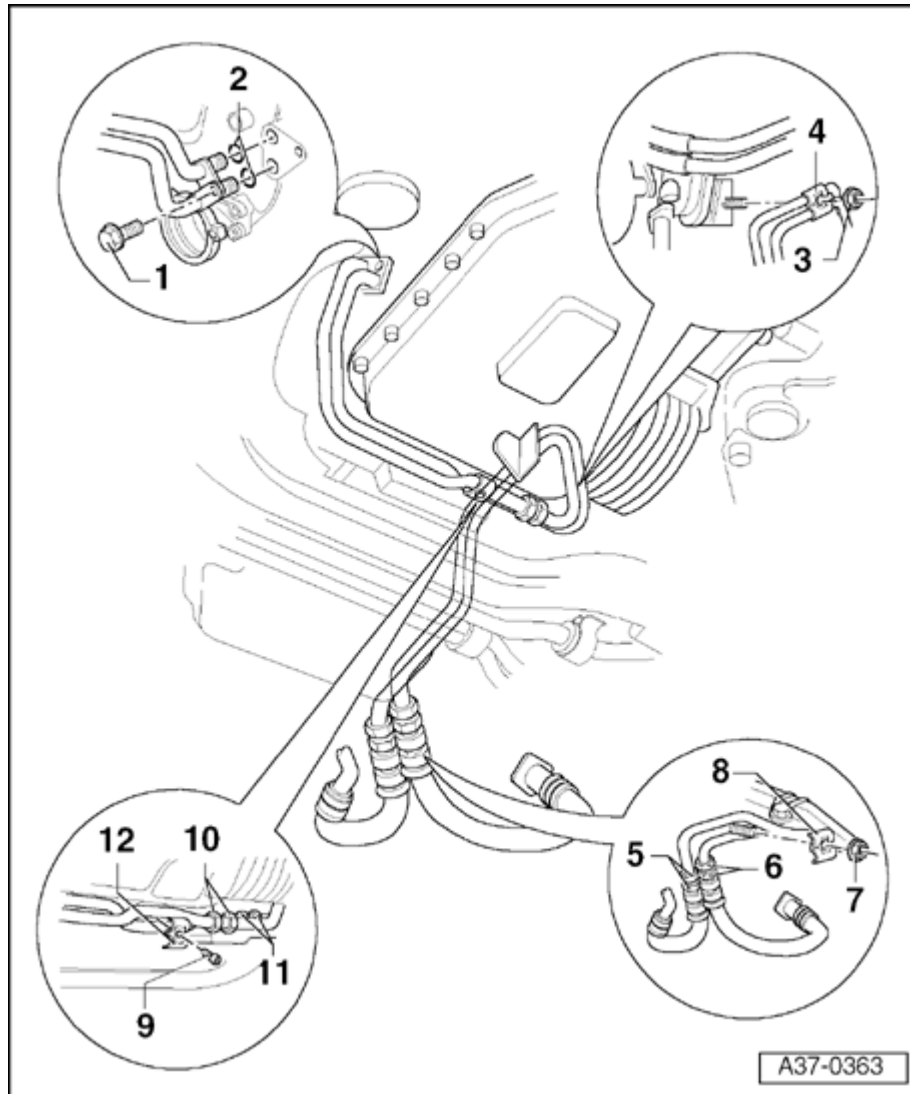
- ◆ Apply ATF when inserting
- ◆ Always replace

6 - Bolt (5Nm)**7 - Bolt (5Nm)****8 - O-ring**

- ◆ Apply ATF when inserting
- ◆ Always replace

9 - Bracket**10 - Union nut, 25 Nm****11 - Hex bolt, 5 Nm****12 - Clamp****13 - Union nut, 25 Nm****14 - Hex bolt, 10 Nm****15 - Hex bolt, 65 Nm**

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ATF lines, removing and installing (vehicles with 6 cylinder 2.7 Liter 5V turbo engine)

Notes:

- ◆ Place VAG1306 drip tray underneath.

1 - Bolt (21Nm)

- ◆ Insert line until impact by hand before tightening

2 - O-ring

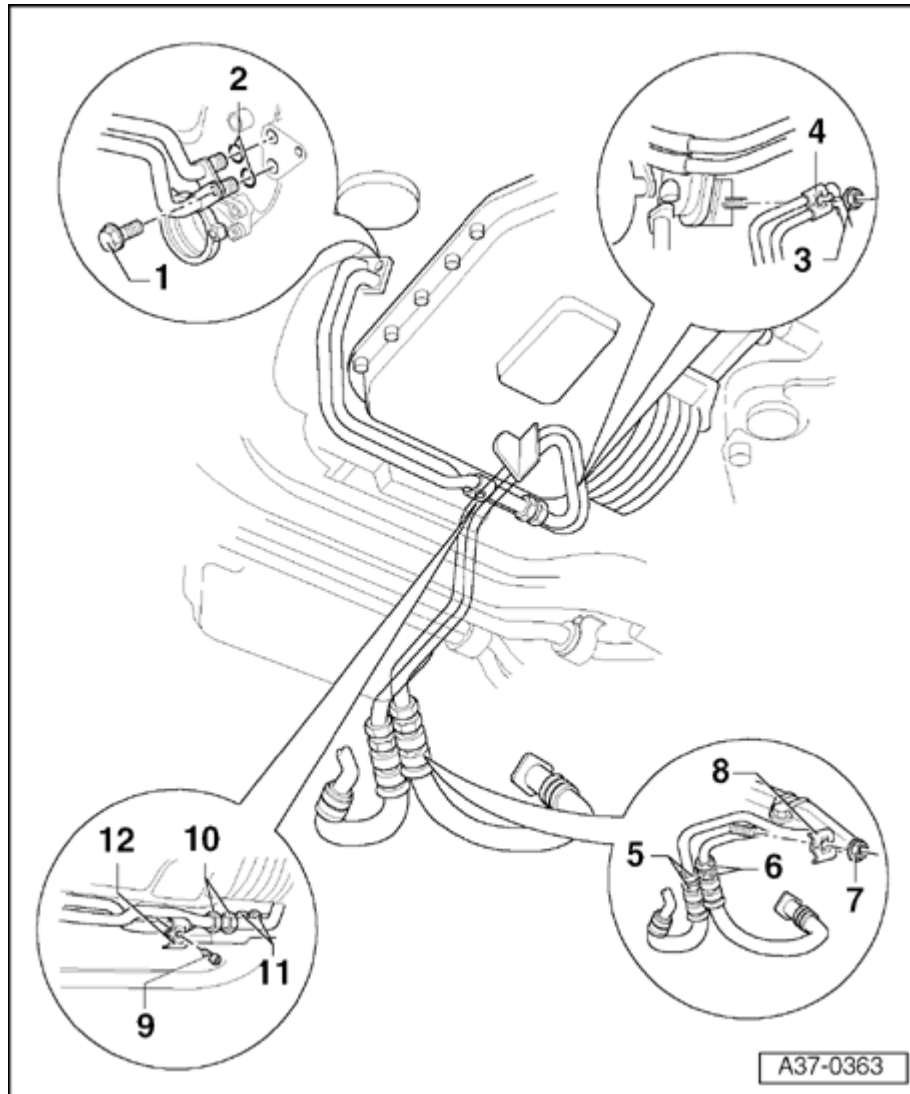
- ◆ Apply ATF when inserting
- ◆ Always replace

3 - Nut - 5 Nm

4 - Clamp

5 - Union nut, 29 Nm

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6 - Union nut, 29 Nm

◆ Note yellow markings for allocation of lines.

7 - Nut - 5 Nm

8 - Clamp

9 - Bolt (5Nm)

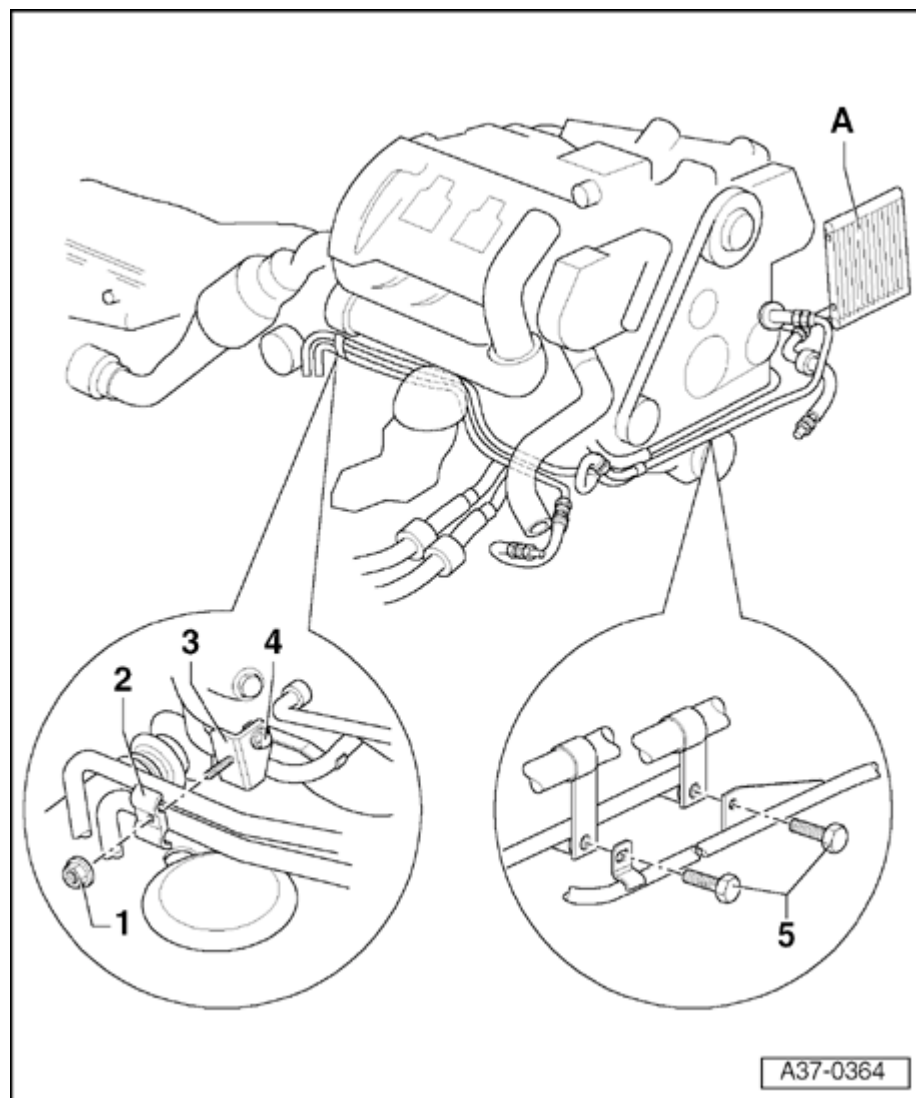
10 - Union nut, 29 Nm

◆ Note yellow markings for allocation of lines.

11 - Union nut, 29 Nm

12 - Clamp

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1 - Nut - 9.5 Nm

2 - Clamp

3 - Bracket

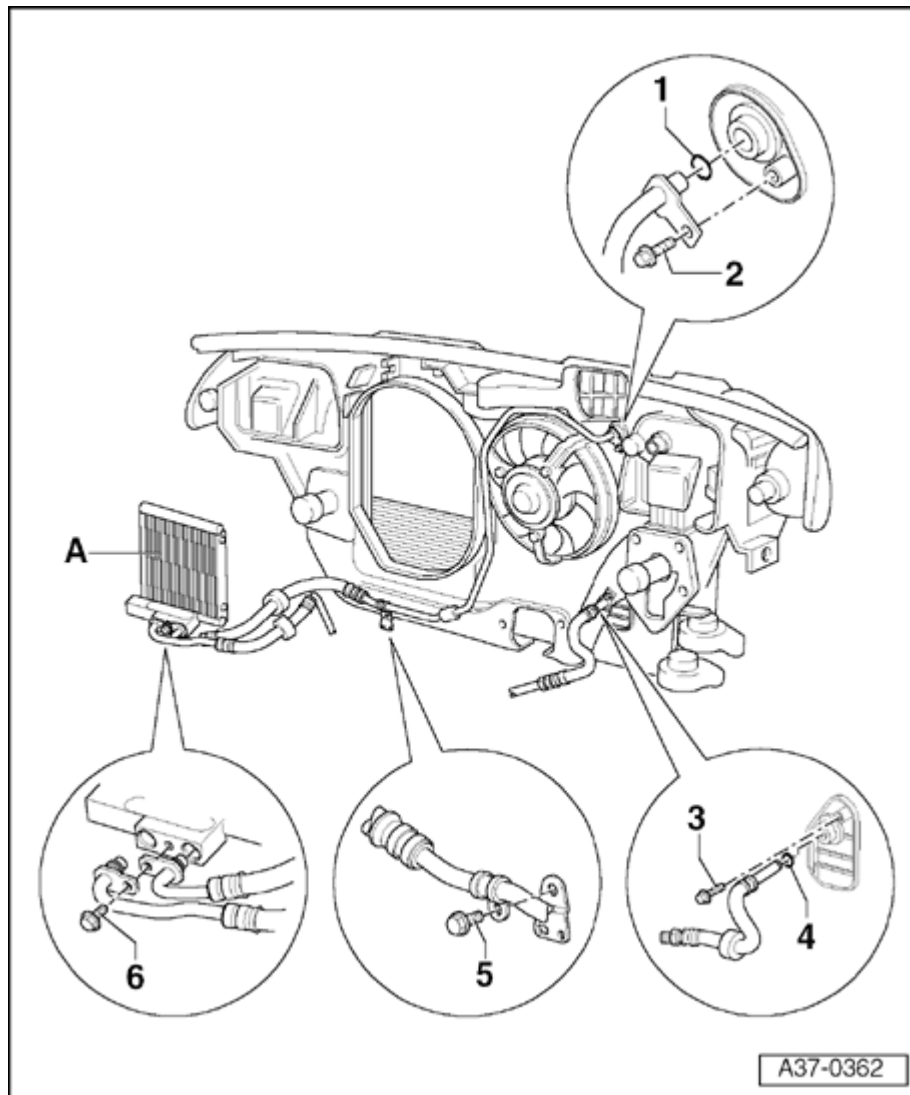
4 - Bolt - 9.5 Nm

5 - Bolt - 22 Nm

A - Auxiliary ATF cooler

- ◆ An extra ATF check must be performed after replacing or emptying the auxiliary ATF cooler ⇒ [page 37-138](#)

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A - Auxiliary ATF cooler

- ◆ An extra ATF check must be performed after replacing or emptying the auxiliary ATF cooler
⇒ [page 37-138](#)

1 - O-ring

- ◆ Apply ATF when inserting
- ◆ Always replace

2 - Bolt (5Nm)

3 - Bolt (5Nm)

4 - O-ring

- ◆ Apply ATF when inserting
- ◆ Always replace

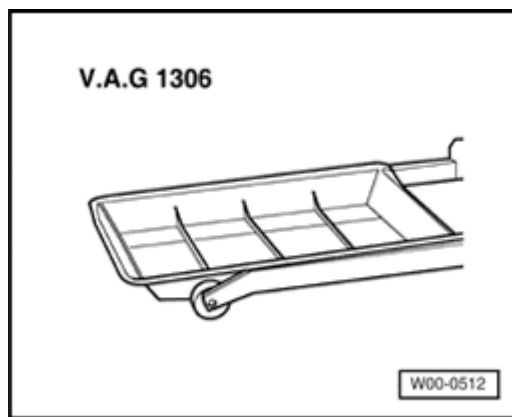
5 - Bolt - 10 Nm

6 - Bolt (25Nm)

- ◆ Before tightening, insert lines by hand up to stop

ATF lines and ATF cooler, cleaning

Special tools and equipment



A

- ◆ VAG1306 drip tray
- ◆ Hose, approx. 18 mm
- ◆ Compressed air gun, standard
- ◆ Protective glasses

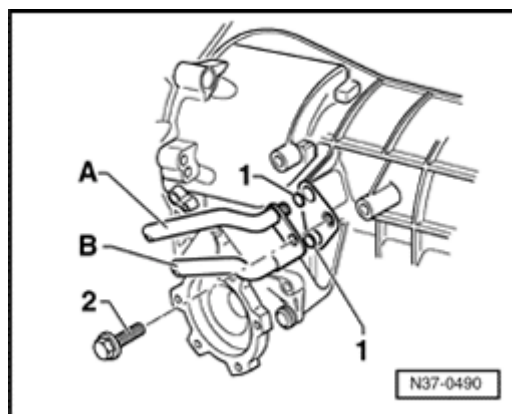
Notes:

- ◆ *Always blow compressed air through oil cooler and ATF lines (max. 10 mbar) before installing a replacement transmission.*
- ◆ *When installing ATF lines, insert into transmission or cooler by hand until impact first and then tighten bolts.*

WARNING!

Wear protective glasses.

- Place VAG1306 drip tray underneath.

**A**

- Remove bolt -2-.
- Disconnect ATF lines from transmission.
- Slide a hose with approx. 18 mm diameter onto ATF line -A- and secure with hose clamp. Place the other end of the hose into an appropriate container.
- Blow through ATF line -B- with compressed air gun.
- Change hose from ATF line -A- to ATF line -B- and repeat procedure.
- Re-secure ATF lines.
- Then check ATF level and top off ⇒ [Page 37-133](#) onward.