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## 00 – General, Technical Data

### 1 Identification

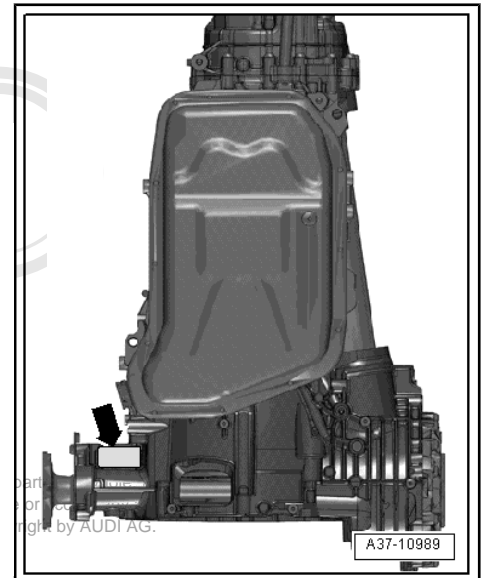
(Edition 04.2017)

⇒ [“1.1 Transmission Identification”, page 1](#)

#### 1.1 Transmission Identification

##### Code Letters, Location on Transmission

- ◆ Transmission code letters are located on the lower type label on the transmission. Type label location -arrow-.



##### Transmission Code and Transmission Serial Number

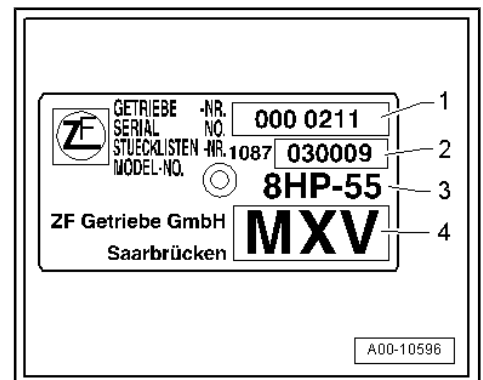
Example:

- 1 - Transmission serial number
- 2 - Parts list number
- 3 - Manufacturer transmission identification: 8HP-55
- 4 - Example of a transmission code: MXV



##### Note

*The transmission code letters are also included on the vehicle data labels.*





## Bearings

- ◆ Install needle bearings with lettered side (thicker metal) racing the fitting tool.
- ◆ Insert bearing with axle oil or ATF, depending on installation location.
- ◆ Do not interchange the outer or inner races for the same size bearings.
- ◆ Always replace the tapered roller bearings on one shaft together and use new bearings from a single manufacturer.

## Adjusting Shims

- ◆ Measure the shims at several locations with a micrometer. Tolerance variations make it possible to find the exact shim thickness required.
- ◆ Check for burrs and damage. Only install flawless shims.

## 3.4 Contact Corrosion

Contact corrosion can occur if non-approved fasteners (bolts, nuts, washers, etc.) are used.

For this reason, only fasteners with a special surface coating may be installed.

In addition, rubber or plastic parts and adhesive are made of materials that do not conduct electricity.

If you are not sure about the suitability of parts, then use new parts. Refer to the Parts Catalog.



### Note

- ◆ *Original replacement parts are recommended because they have been tested.*
- ◆ *It is recommended to use Audi accessories.*
- ◆ *Damage resulting from contact corrosion is not covered by the warranty.*



## 1.2 Overview - Selector Lever Handle

⇒ ["1.2.1 Overview - Selector Lever Handle, Vehicles through MY 2012", page 18](#)

⇒ ["1.2.2 Overview - Selector Lever Handle, Vehicles from MY 2013", page 19](#)

### 1.2.1 Overview - Selector Lever Handle, Vehicles through MY 2012

#### 1 - Clamp

- Always replace
- For securing handle to selector lever
- Removing and installing. Refer to ⇒ ["1.8 Selector Lever Handle, Removing and Installing", page 34](#) .

#### 2 - Trim Ring

- Removing and installing. Refer to ⇒ ["1.8.2 Selector Lever Boot, Separating from Selector Lever Handle, Vehicles through MY 2012", page 36](#) .

#### 3 - Selector Lever Handle

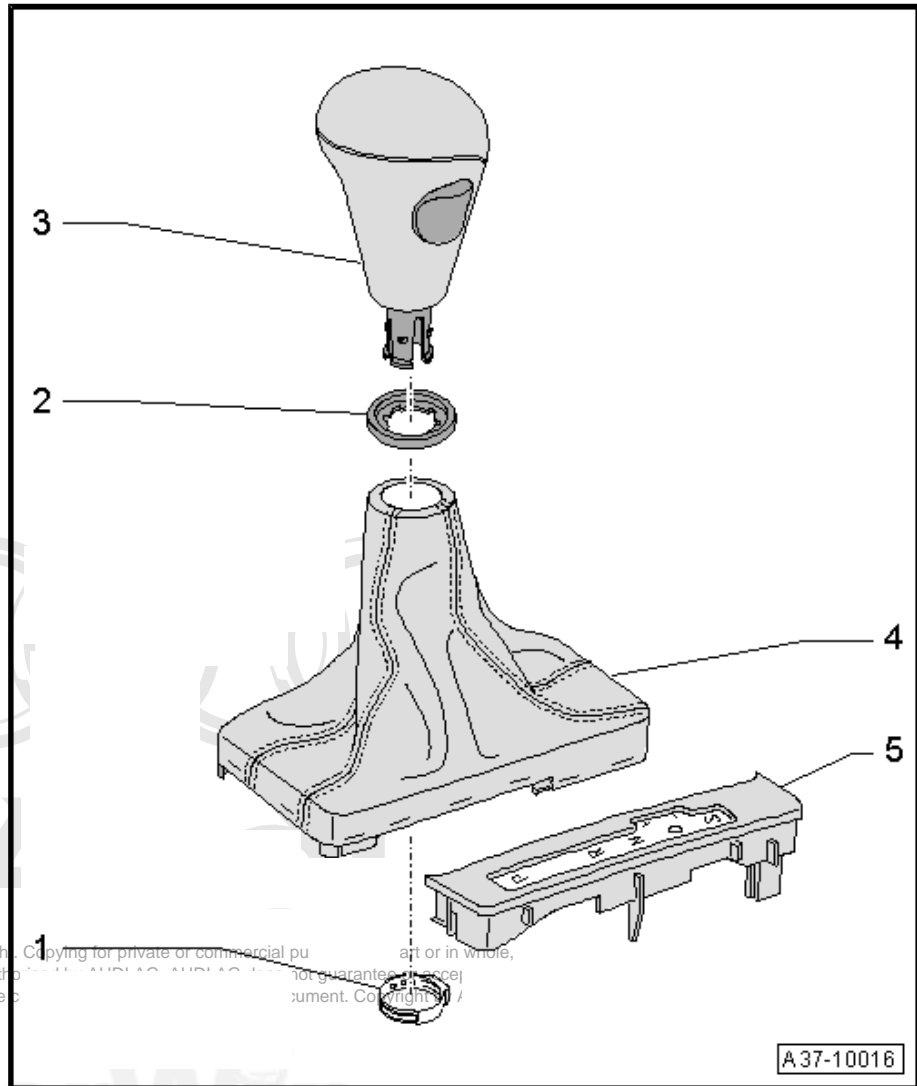
- Removing and installing. Refer to ⇒ ["1.8 Selector Lever Handle, Removing and Installing", page 34](#)

#### 4 - Selector Lever Boot

- Refer to ⇒ ["1.8.2 Selector Lever Boot, Separating from Selector Lever Handle, Vehicles through MY 2012", page 36](#)

#### 5 - Selector Lever Transmission Range Position Display Unit - Y26-

- Removing and installing. Refer to ⇒ ["1.9 Selector Lever Transmission Range Position Display Unit Y26 , Removing and Installing", page 43](#)



- Remove the ball socket -1- on the selector lever cable from the selector shaft lever using the -80-200- .
- Press the securing clips -2- off and remove the selector lever cable from the transmission.

 **Note**

*Do not bend or kink the selector lever cable.*

- Remove the selector mechanism function unit.

### Installing

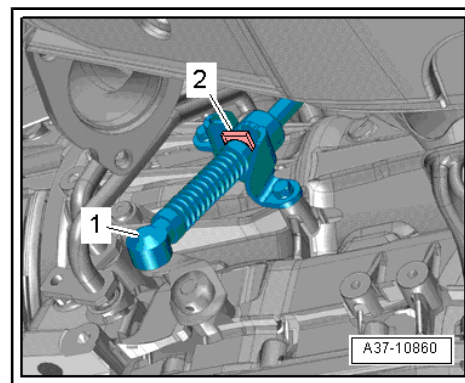
Install in reverse order of removal. Note the following:

Tightening specifications:

- Refer to ⇒ [“1.1 Overview - Selector Mechanism”, page 15](#) .
- Refer to ⇒ [Fig. “Selector Lever Cable Heat Shield - Tightening Specification”](#) , page 21 .

 **Note**

- ◆ *Replace the lock washers.*
- ◆ *Lightly lubricate the ball socket on the selector lever cable with Polycarbamide Grease - G 052 142 A2- before installing.*
- ◆ *Do not bend or kink the selector lever cable.*
- Adjust the selector lever cable. Refer to ⇒ [“1.11 Selector Lever Cable, Checking and Adjusting”, page 47](#) .
- Install the heat shield. Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Molding/Trim/Extensions/Trim Panels; Overview - Heat Shield .
- Install tunnel crossmember. Refer to ⇒ [“3.1 Overview - Subframe Mount”, page 104](#) .
- Check the selector mechanism. Refer to ⇒ [“1.4 Gearshift Mechanism, Checking”, page 21](#) .
- Align the exhaust system free of tension. Refer to ⇒ Rep. Gr. 26 ; Exhaust Pipes/Mufflers; Exhaust System, Installing without Tension .
- Install the noise insulation. Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Noise Insulation; Overview - Noise Insulation .
- Install the front ashtray. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Center Console; Front Ashtray, Removing and Installing .
- Install the selector lever handle. Refer to ⇒ [“1.8 Selector Lever Handle, Removing and Installing”, page 34](#) .



- Carefully press the selector lever cable ball socket -1- in this position onto the selector shaft lever.

**i** Note

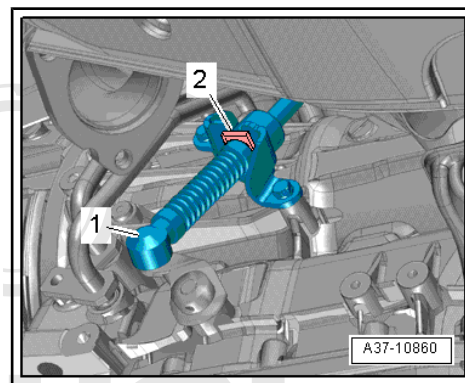
*Do not bend selector shaft lever when pressing on, otherwise shift mechanism can no longer be adjusted exactly.*

- Secure the selector lever cable using a clip -2-.

**i** Note

*Do not bend or kink the selector lever cable.*

- Install the heat shield. Refer to ⇒ [Body Exterior; Rep. Gr. 66; Molding/Trim/Extensions/Trim Panels; Overview Heat Shield](#) .
- Check and adjust the selector lever cable. Refer to ⇒ ["1.11 Selector Lever Cable, Checking and Adjusting"](#) , page [47](#) .
- Check the selector mechanism. Refer to ⇒ ["1.4 Gearshift Mechanism, Checking"](#) , page [21](#) .



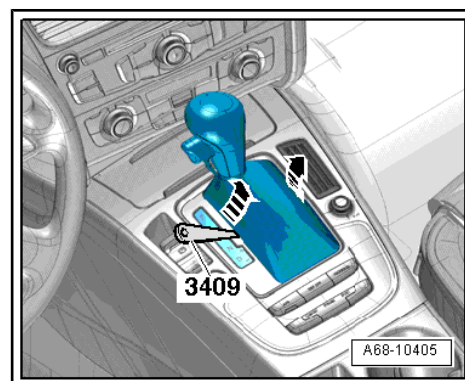
## 1.11 Selector Lever Cable, Checking and Adjusting

### Special tools and workshop equipment required

- ◆ Trim Removal Wedge - 3409-
- ◆ Socket And Key - T40031-

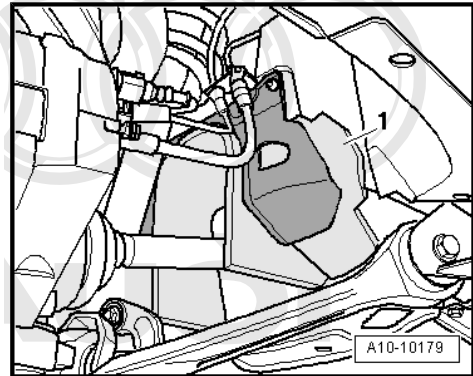
### Procedure

- Tightening specification. Refer to ⇒ ["1.3 Overview - Selector Lever Cable"](#) , page [20](#) .
- Press the button on the electro-mechanical parking brake to activate it.
- Move the selector lever into "D" or "D/S".
- Carefully pry out the selector lever boot on the side using the -3409- or a small screwdriver -arrows- and then fold it upward.



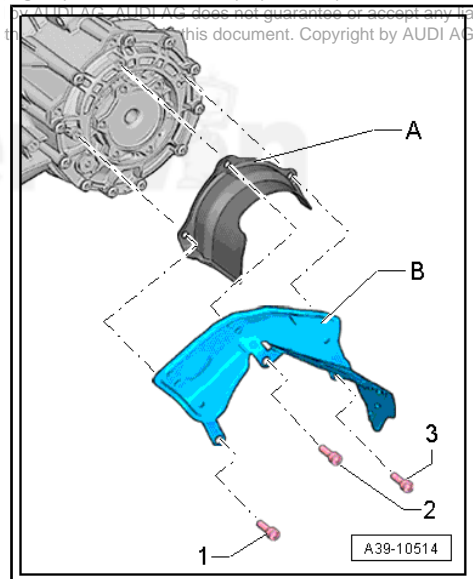


- Remove the drive axle noise insulation -1- inside the right wheel housing.

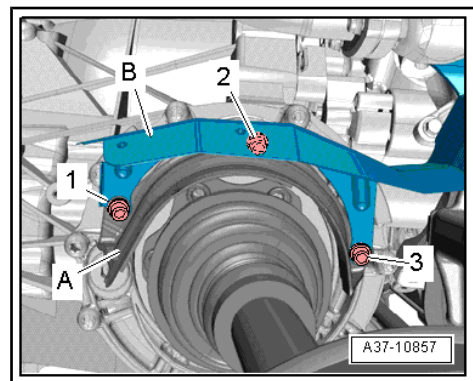


**Note**

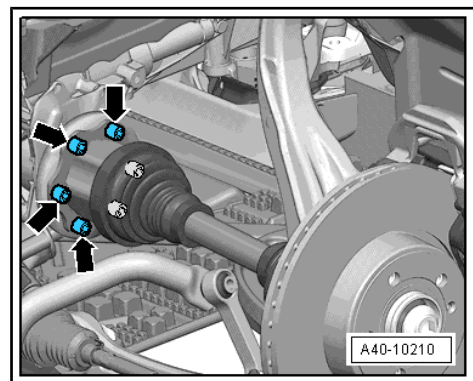
- ◆ Depending on the date of manufacture, an additional drive axle heat shield -B- may be attached.
- ◆ The shape of the additional heat shield depends on the engine and on the date of manufacture.
- ◆ Mark the installed position of the additional heat shield in color before removing it.



- If equipped, mark the installed position of the heat shield -B- to the heat shield -A-.
- Remove the bolts -1, 2 and 3- and then remove the right drive axle heat shields.
- Remove the right subframe shield under the right drive axle. Refer to ⇒ Suspension, Wheels, and Steering; Rep. Gr. 40; Subframe; Subframe Heat Shield, Removing and Installing .



- Remove left and right drive axles from transmission flange shafts.







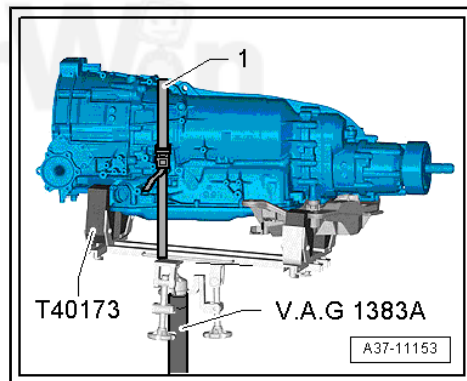
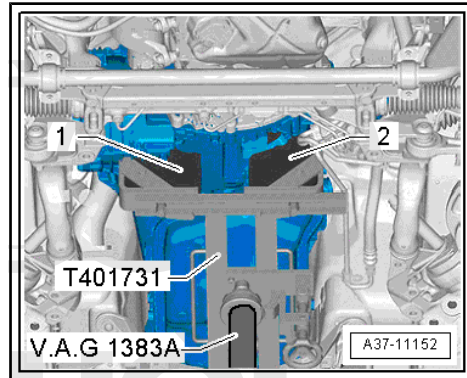
**Caution**

*Danger of leaks in the ATF pan.*

◆ *The -T40173- must not be set on the ATF pan.*

- Place the -VAG1383A- with the prepared -T40173- . Refer to [⇒ page 64](#) on the bottom of the transmission.
- The transmission support must be placed at the front as follows:
- Mount the bracket -2- behind the opening in the transmission housing for the torque converter on the left side of the transmission.
- Mount the bracket -1- on the front final drive on the right side of the transmission.
- Secure the transmission with a tensioning strap -1-.

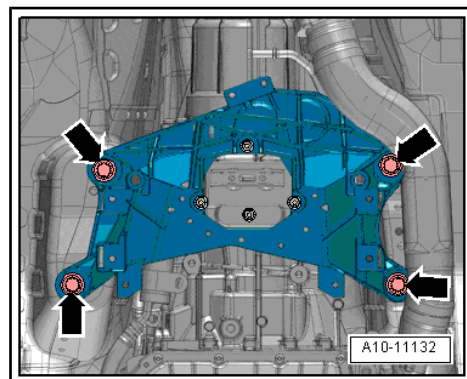
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**Note**

*The -T40173- is not illustrated.*

- Remove the bolts from the tunnel crossmember -arrows-.
- Remove the last engine/transmission bolt.

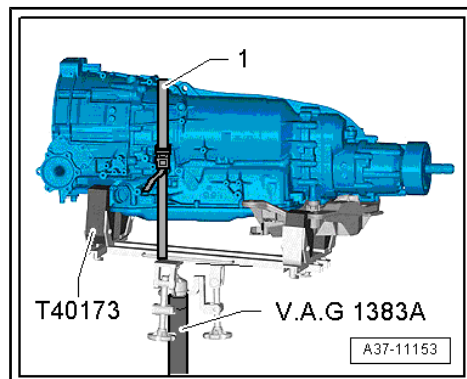


- Separate the transmission from the engine to the rear.
- Use spindles on the -T40173- to adjust the position of the transmission while lowering it.



**Note**

*Make sure the lines on the top of the transmission do not get pinched when lowering the transmission.*



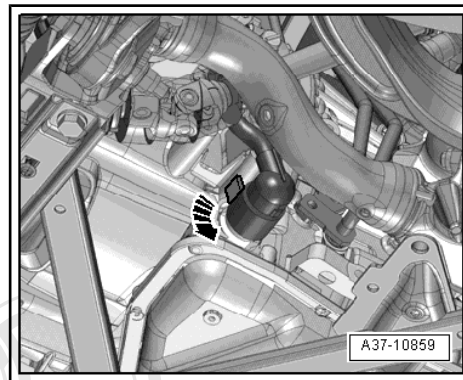


**Caution**

*There is a risk of destroying the transmission control module (Mechatronic) with electrostatic discharge.*

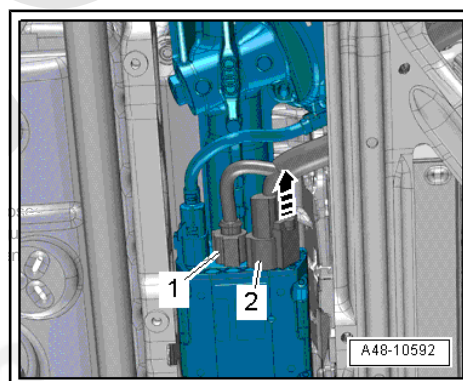
◆ *Do not touch contacts in transmission connector with hands.*

- To discharge static electricity, touch the transmission housing (without wearing gloves).
- Disconnect the connector on transmission by rotating screw connections counter-clockwise -arrow-.
- Free up the wiring harness on the transmission.
- Slide the retainer toward the rear -arrow- and press down the release in order to disconnect the connector -2- for the steering gear.
- Free up the wiring harness.



**Note**

*Ignore -item 1-.*

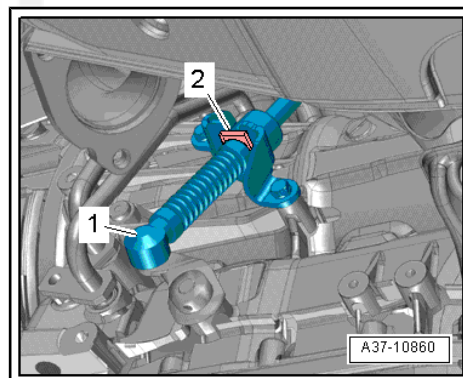


- Remove the ball socket -1- on the selector lever cable from the selector shaft lever using the Pry Lever - 80-200- .
- Press the securing clips -2- off and remove the selector lever cable from the transmission.

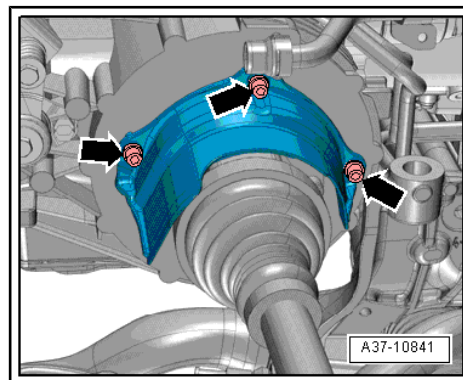


**Note**

*Do not bend or kink the selector lever cable.*



- Remove the bolts -arrows- and then remove the heat shield from the right driveshaft.





- ◆ Torque Wrench 1332 Insert - Ring Wrench - 16mm - VAG1332/14-
- ◆ Crankshaft Socket - T40058- for vehicles with 6-cylinder TFSI engine
- ◆ Clutch Module Transportation Lock - T40170-
- ◆ Crankshaft Turning Tool - T40257- for vehicles with 6-cylinder TDI engine
- ◆ Wrench - 21mm - T40263- for vehicles with 6-cylinder TDI engine
- ◆ Adapter - T40314- for vehicles with 6-cylinder TDI engine

### Procedure



#### Note

- ◆ *Replace the bolts that were tightened with an additional turn. Aluminum bolts used for attaching the transmission to the engine may be used one time only. Refer to ⇒ [page 103](#).*
- ◆ *Replace self-locking nuts and bolts and seals, gaskets and O-rings.*
- ◆ *Secure all hose connections with hose clamps. Refer to the Parts Catalog.*
- ◆ *When installing, bring all cable ties back to same positions.*

### Transmission Installation Tightening Specifications. Refer to ⇒ ["2.3 Transmission Tightening Specifications", page 102](#) .

- Before installing a replacement transmission, always clean out the ATF cooler and ATF pipes using compressed air (maximum 10 bar (145 psi)). Refer to ⇒ ["7.4 Automatic Transmission Fluid Lines, Cleaning", page 126](#) .
- Clean residue from the threaded holes in the cylinder block using a thread tap before installing.
- When installing a replacement transmission, install the transmission support, the transmission mounting and the tunnel crossmember on the new transmission. Refer to ⇒ ["3.1 Overview - Subframe Mount", page 104](#) .
- Mount the transmission onto the -T40173- and secure it using the tension strap -1- as illustrated.

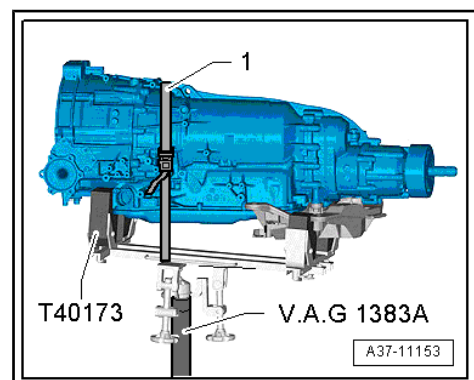


#### Caution

*Installing the torque converter incorrectly can cause damage to the ATF pump drive plate.*

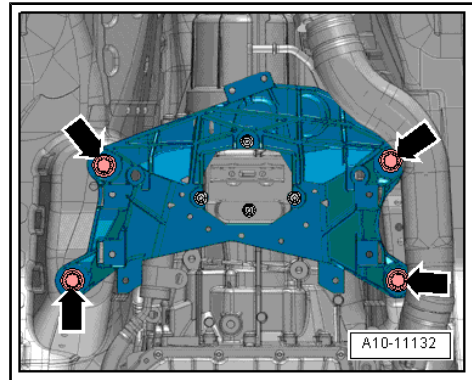
- ◆ *Check the installed dimension of the torque converter. Refer to ⇒ [Servicing - 8-Speed Automatic Transmission; Rep. Gr. 32; Torque Converter; Torque Converter, Removing and Installing](#) .*

- The following preparations must be made before connecting the engine and transmission:





- Remove the bolts from the tunnel crossmember -arrows-.

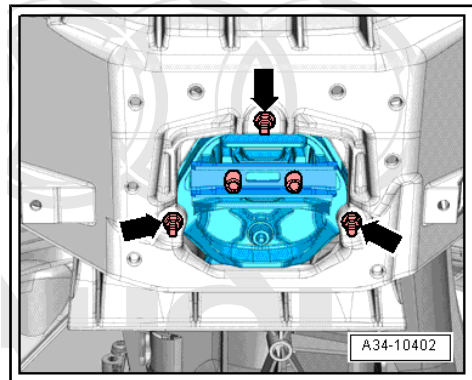


- Remove the nuts -arrows- and the tunnel crossmember.

### Installing

Install in reverse order of removal. Note the following:

- Tightening specifications. Refer to [⇒ "3.1 Overview - Subframe Mount", page 104](#) .
- Install the rear noise insulation. Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Noise Insulation; Overview - Noise Insulation .



## 3.3 Transmission Support with Transmission Mount, Removing and Installing

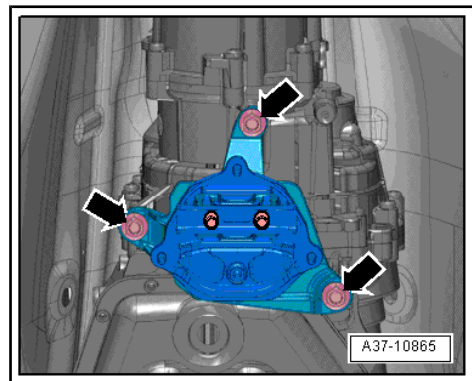
### Removing

- Remove the tunnel crossmember. Refer to [⇒ "3.2 Tunnel Crossmember, Removing and Installing", page 105](#) .
- Remove the bolts -arrows- and the transmission support with the transmission mount from the transmission.

### Installing

Install in reverse order of removal. Note the following:

- Tightening specifications. Refer to [⇒ "3.1 Overview - Subframe Mount", page 104](#) .
- Install tunnel crossmember. Refer to [⇒ "3.2 Tunnel Crossmember, Removing and Installing", page 105](#) .




## 3.4 Transmission Mount, Removing and Installing


### Removing

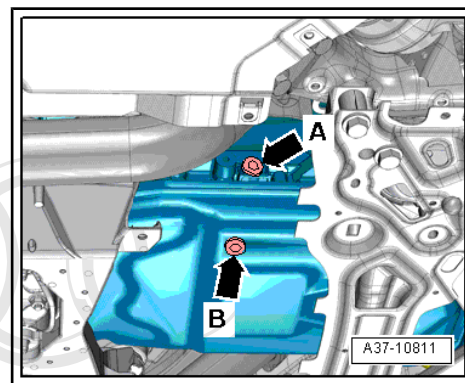
- Remove the transmission support with the transmission mount. Refer to [⇒ "3.3 Transmission Support with Transmission Mount, Removing and Installing", page 106](#) .

- Place the -SMN372500- under the transmission.

 **WARNING**  
*Danger of eye injury.*  
◆ *Wear protective eyewear.*

- Remove the ATF drain plug -arrow B- and drain the ATF.

 **Caution**  
*Danger of causing damage to the transmission.*  
◆ *Do not start the engine when there is no ATF in the transmission.*




 **Note**

- ◆ *Follow the disposal requirements.*
- ◆ *Replace the ATF drain plug and seal.*
- ◆ *Replace the plug for the ATF check and fill hole.*

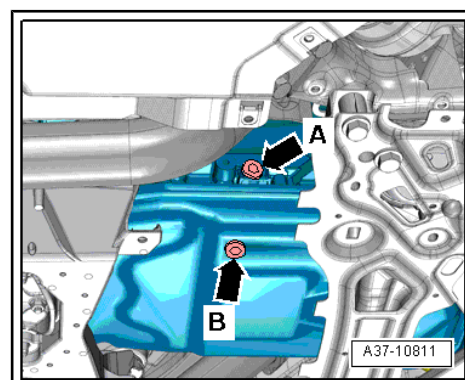
- Tighten the new drain plug -arrow B-.

**Fill Transmission with ATF**

 **Caution**  
*Danger of causing damage to the transmission.*  
◆ *Only use the ATF available as a replacement part for the automatic transmission 0BK.*  
◆ *Using other fluids can cause malfunctions or transmission failure.*  
◆ *For the correct allocation. Refer to the Parts Catalog.*  
◆ *The ATF filler adapter must be clean. Do not mix the ATF any other fluids.*

- Secure the oil container and the -VAS6262A- as high as possible on the vehicle. For the correct ATF specification. Refer to the Parts Catalog.

- Tighten the new plug -arrow A-.

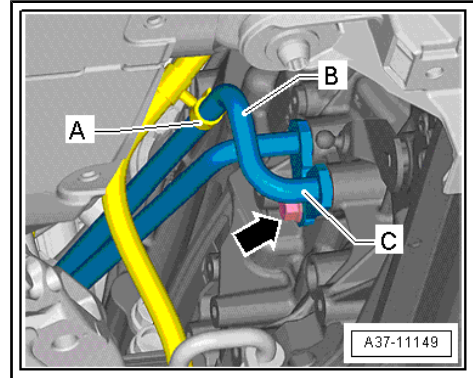




### Note

Place the -VAG1782- or a Catch Tray under the transmission to catch any leaking ATF.

- Remove the clip -A- holding the Mechatronic wiring harness from the ATF pipe -B-.
- Remove the bolt -arrow-. Then pull the ATF pipes -B and C- off the transmission and tie them up.
- Seal the open lines and connections with clean plugs from the -VAS6122- .
- Remove the ATF pipes.



### Installing

Install in reverse order of removal. Note the following:

- Tightening specifications. Refer to [⇒ "7.1 Overview - ATF Circuit", page 117](#) .



### Note

Replace the O-rings.

- Check the ATF level. Refer to [⇒ "6.2 ATF Level, Checking", page 110](#) .
- Install the noise insulations. Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Noise Insulation; Overview - Noise Insulation .

## 7.5.2 ATF Pipes, Removing and Installing, Vehicles with 3.0L TFSI Engine

### Special tools and workshop equipment required

- ◆ Used Oil Collection and Extraction Unit - VAG1782-
- ◆ Engine Bung Set - VAS6122-



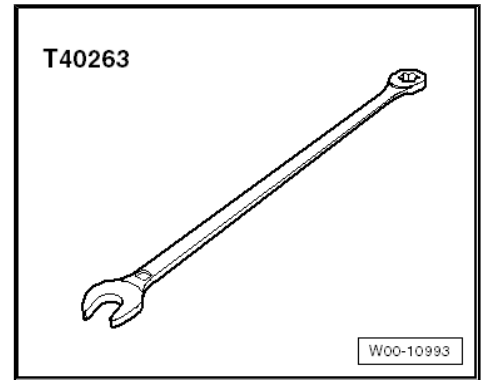
### Note

The ATF pipes can only be removed and installed when the transmission is removed.

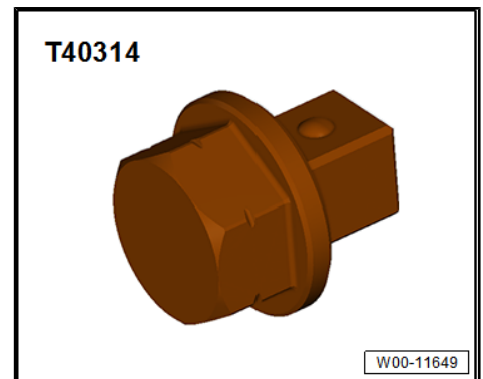
### Removing

- Transmission removed. Refer to [⇒ "2.1.3 Transmission, Removing, Vehicles with 3.0L TFSI Engine", page 71](#) .
- Place the -VAG1782- under the separating point.

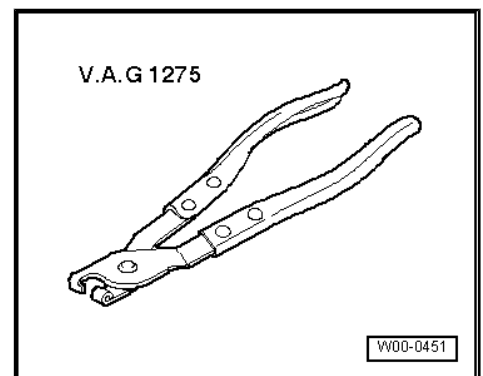
- ◆ Wrench - 21mm - T40263- for vehicles with 6-cylinder TDI engine



- ◆ Adapter - T40314- for vehicles with 6-cylinder TDI engine



- ◆ Hose Clip Pliers - VAG1275A-



- ◆ Torque Wrench 1332 Insert - Ring Wrench - 16mm - VAG1332/14-

