

TRANSMISSION

Controls, Housing - S-Tronic Transmission Internal Components 0B5 AWD (Sedan)

CONTROLS, HOUSING

GENERAL INFORMATION

ATF, DRAINING

Special tools and workshop equipment required

- Oil Collecting and Extracting Device V.A.G 1782
- Protective goggles

ATF, Draining

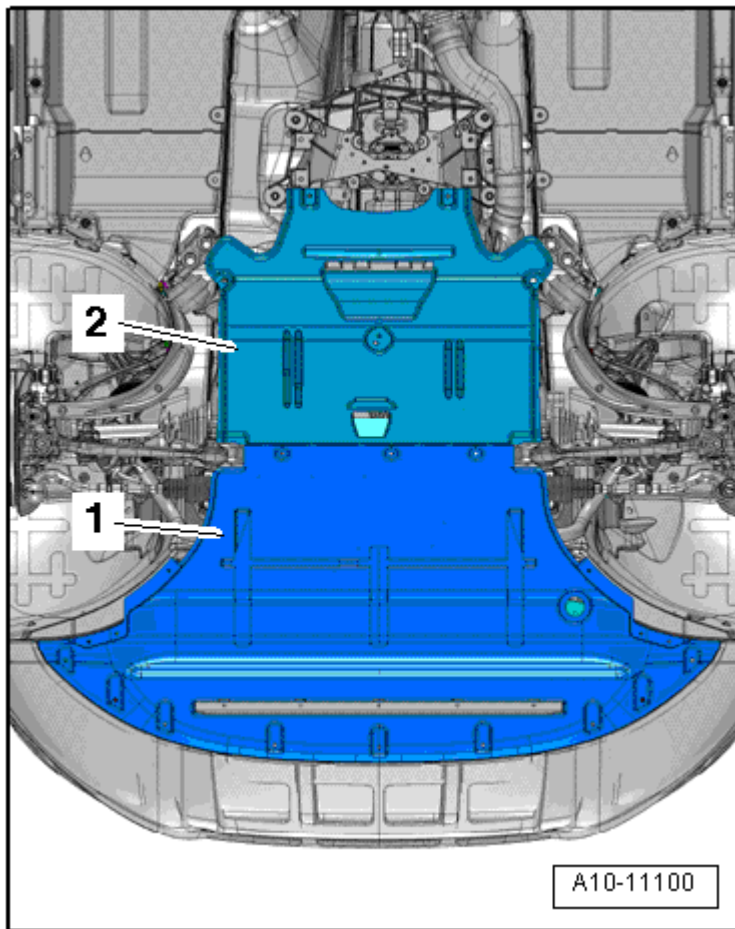


Fig. 1: Identifying Noise Insulation
Courtesy of AUDI OF AMERICA, LLC

Transmission installed:

- The engine is off.
- Move vehicle onto a four-pillar shop hoist or over a work pit so that it is absolutely horizontal.
- The selector level is in "P".
- The parking brake button should be activated to set the electromechanical parking brake.

-- Remove the rear noise insulation -2-. Refer to "Underbody Trim" in **Description and Operation** .

CAUTION: There is a risk of damaging the transmission.

- **Engine must not be started if only a small amount or no ATF is in the transmission after repair work or after significant ATF loss.**

Transmission removed.

- The transmission is secured to the engine/transmission holder. Refer to **SECURING ON ENGINE AND TRANSMISSION HOLDER**.

Transmission, removed or installed:

-- Place the V.A.G 1782 under the transmission.

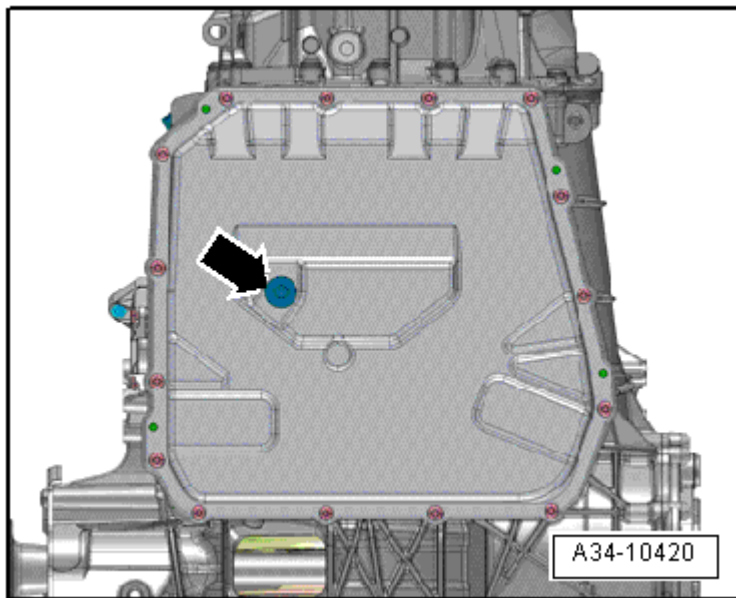


Fig. 2: Identifying ATF Drain Plug

Courtesy of AUDI OF AMERICA, LLC

WARNING: Danger of eye injury.

- **Wear protective goggles.**

-- Remove the ATF drain plug -arrow- and let the ATF drain out.

NOTE:

- **Follow the disposal requirements.**
- **Replace the ATF drain plug seal.**

-- Tighten the ATF drain plug.

On Transmissions with an ATF Filter -2-

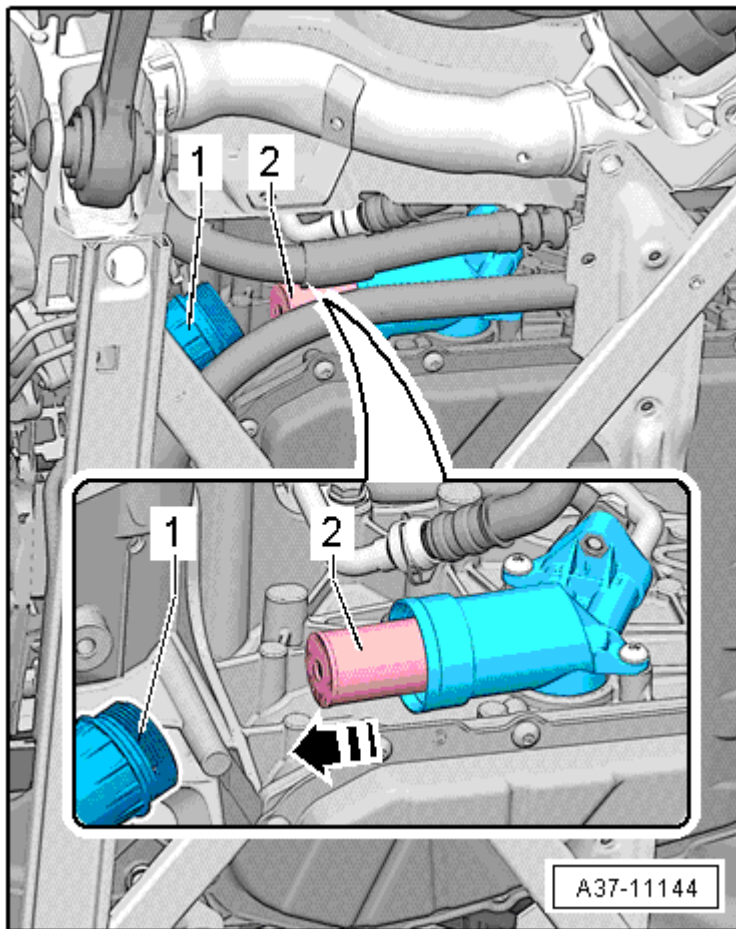


Fig. 3: Placing ATF Filter Cover On Crossbrace
Courtesy of AUDI OF AMERICA, LLC

CAUTION: There is a risk of damaging the transmission.

- **Always replace the ATF filter -2- every time the ATF is changed.**

-- Replace the ATF filter. Refer to **ATF FILTER** .

Continuation for All Transmissions**Fill the Transmission with ATF**

CAUTION: There is a risk of damaging the transmission.

- Only use replacement part ATF for the S-Tronic transmission 0B5.
- Using other types of ATF can result in the malfunctions or transmission failure.
- The ATF filler tool must be clean and the ATF must not be mixed with any other oils.

-- Fill the ATF. Refer to [For engine(s) CCBA] General Information .

DESCRIPTION AND OPERATION**DRAIN PLUG, FILL PLUG AND CHECK PLUG OVERVIEW**

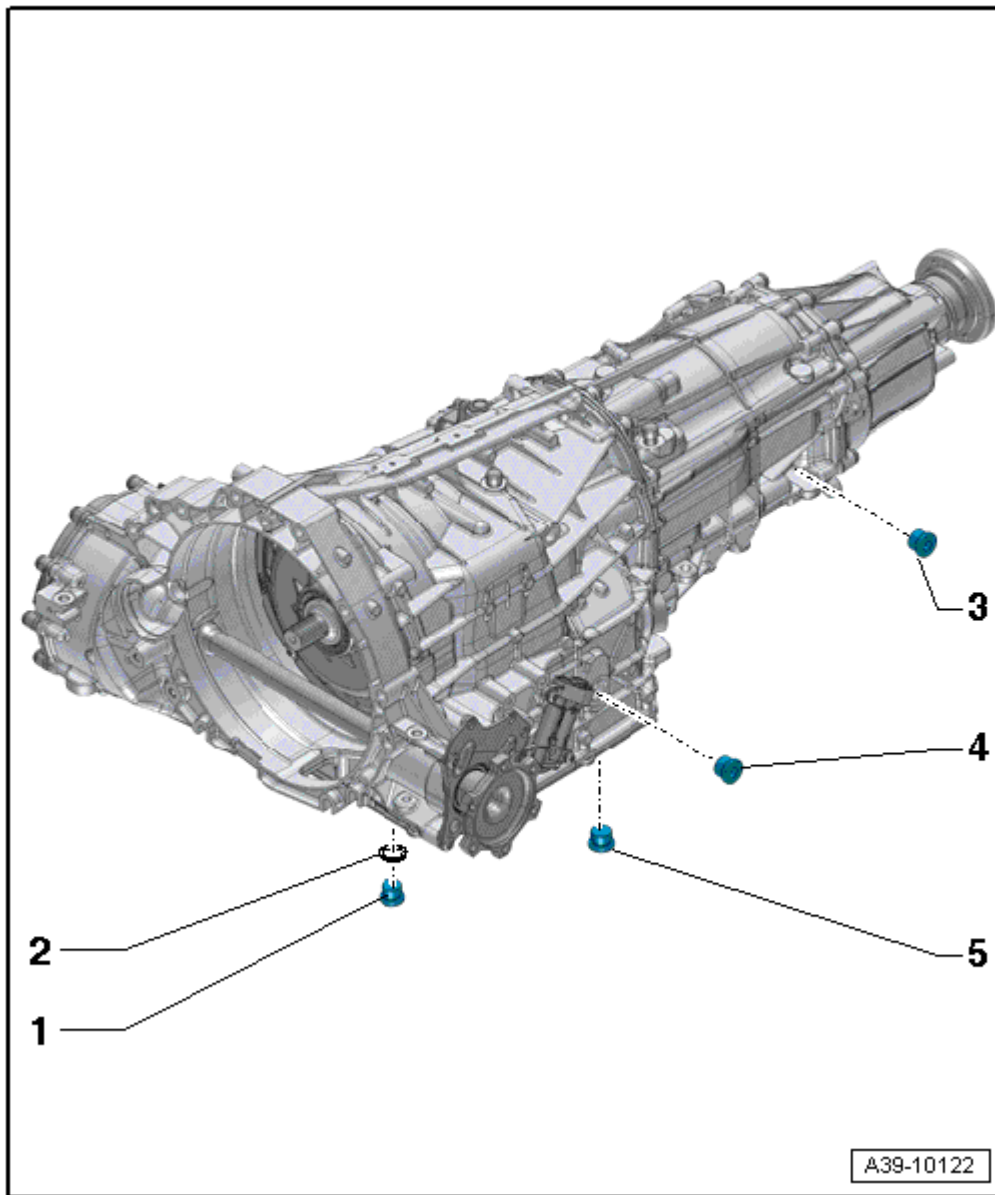


Fig. 4: ATF Drain, Fill And Check Plugs Assembly Overview
 Courtesy of AUDI OF AMERICA, LLC

1. ATF Drain Plug
 - 45 Nm
2. Seal
 - For the ATF drain plug
 - Replace
3. Transmission Fluid (MTF) Fill and Check Plug
 - 45 Nm
 - Inside the manual transmission, front final drive and transfer case
4. ATF Fill and Check Plug

- 45 Nm
5. Transmission Fluid (MTF) Drain Plug
- 45 Nm
 - Inside the manual transmission, front final drive and transfer case
 - Depending on the date of manufacture, transmission fluid temperature sensor 2 -G754- may also serve as the transmission fluid drain plug; tightening specification for removing and installing, refer to Transmission Fluid Temperature Sensor 2 -G754-.

TRANSMISSION, TRANSPORTING

Special tools and workshop equipment required

- Shop Crane -Load Cap = 700-1200 kg VAS 6100
- Hook and Support Tool T40197

Procedure

- Transmission removed.

CAUTION: Transmission components could be damaged if they are not set down correctly.

- Do not set the transmission on the ATF pan.

-- Engage the T40197 in the holes on the right side of the transmission and secure it to the left side of the transmission with the knurled bolt -arrow-.

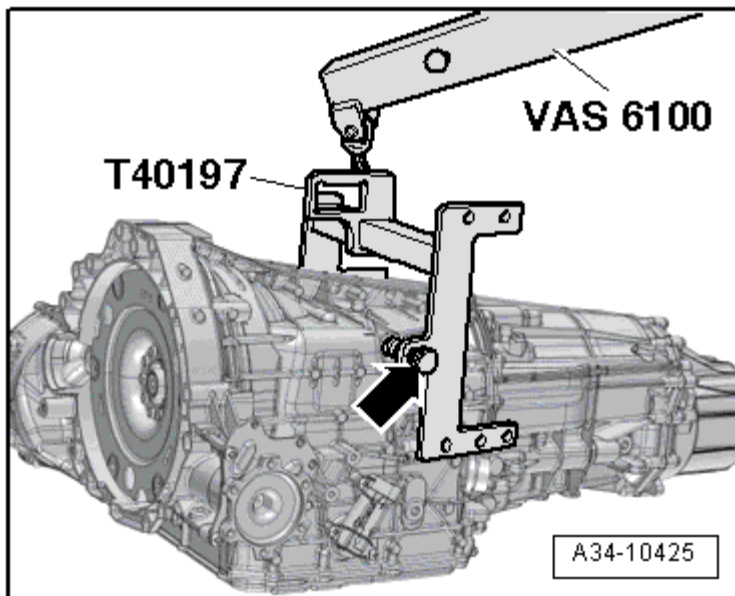


Fig. 5: Installing Special Tool T40197

Courtesy of AUDI OF AMERICA, LLC

-- The transmission can be lifted and transported using a VAS 6100.

SECURING ON ENGINE AND TRANSMISSION HOLDER

Special tools and workshop equipment required

- Holding Plate VW 309
- Hook and Support Tool T40197
- Engine and Transmission Holder VAS 6095
- Shop Crane -Load Cap = 700-1200 kg VAS 6100

Procedure

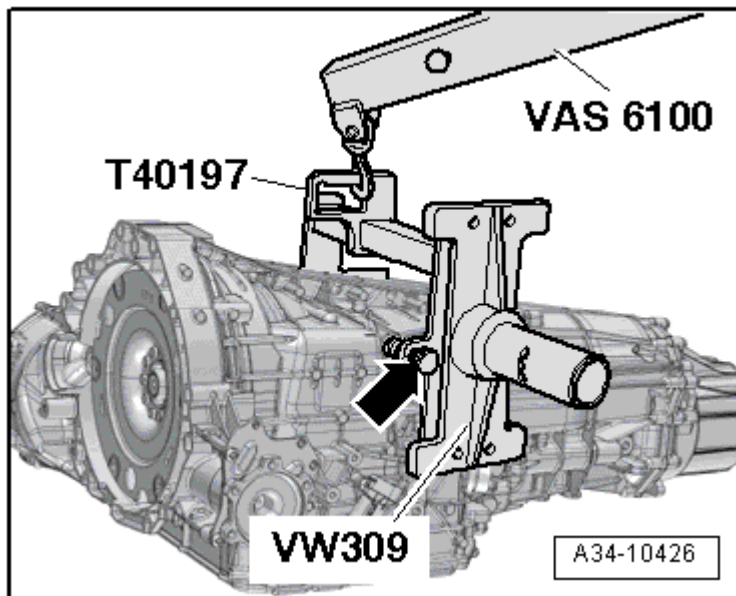


Fig. 6: Identifying Transmission Holding Fixture Setup
Courtesy of AUDI OF AMERICA, LLC

- Transmission secured with the VAS 6100, refer to **TRANSMISSION, TRANSPORTING.**

-- Install the VW 309 on the T40197.

-- Place the transmission into the VAS 6095 using the VAS 6100.

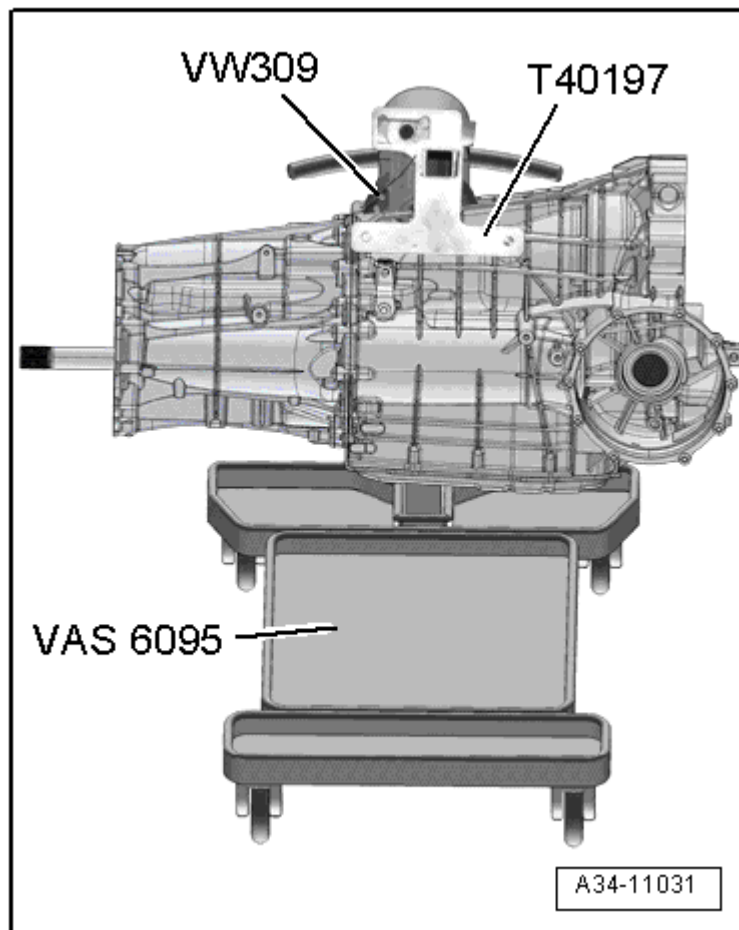


Fig. 7: Identifying Transmission Holding Fixture Setup
 Courtesy of AUDI OF AMERICA, LLC

NOTE: The vents for the transmission housing and final drive must be closed before turning a filled transmission with oil pan upward on the engine and transmission holder.

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Components	Fastener Size	Nm
ATF Drain Plug	-	45
ATF Fill and Check Plug	-	45
Transmission Fluid (MTF) Fill and Check Plug	-	45
Transmission Fluid (MTF) Drain Plug	-	45

REMOVAL AND INSTALLATION

TRANSMISSION FLUID TEMPERATURE SENSOR 2 -G754-

Special tools and workshop equipment required

- Oil Collecting and Extracting Device V.A.G 1782

The 7-speed DSG transmission 0B5 (S-Tronic) has an additional transmission fluid temperature sensor 2 to monitor the transmission fluid temperature of the wheel set on certain engine versions.

- Installed location: In place of the manual transmission fluid (MTF) drain plug

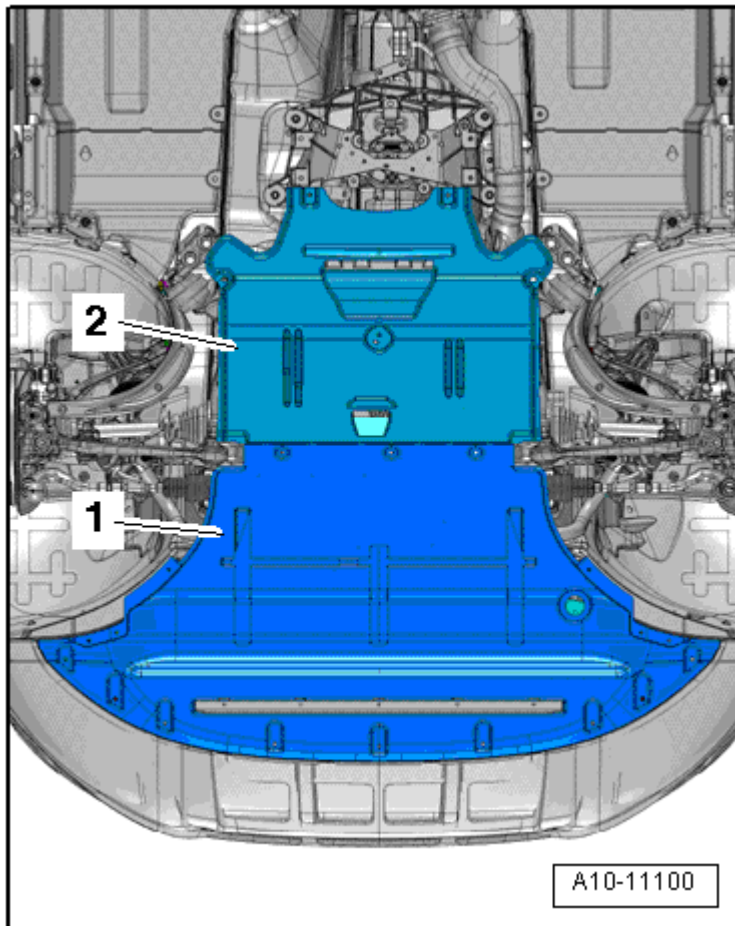
Procedure

Fig. 8: Identifying Noise Insulation
Courtesy of AUDI OF AMERICA, LLC

Transmission installed:

-- Remove the rear noise insulation -2-. Refer to "Underbody Trim" in **Description and Operation** .

CAUTION: There is a risk of damaging the transmission.

Without any or with too little manual transmission fluid inside the transmission:

- Do not start the engine and
- Do not tow the vehicle

Transmission, Removed or Installed:

-- Place the V.A.G 1782 under the transmission.

-- Disconnect the connector -2- from transmission fluid temperature sensor 2.

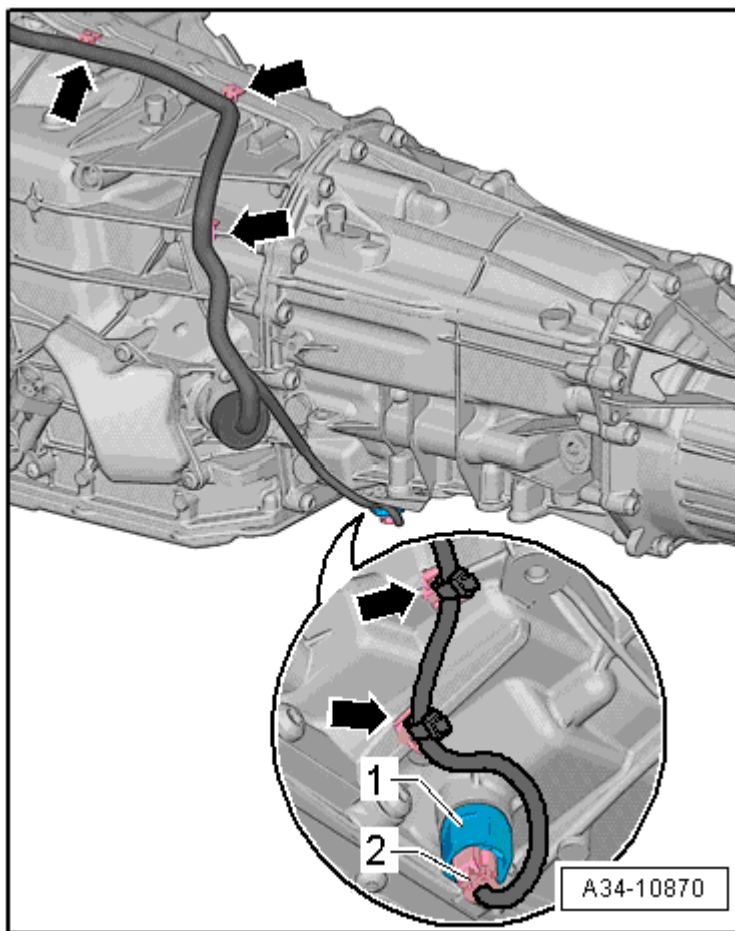


Fig. 9: Transmission Fluid Temperature Sensor

Courtesy of AUDI OF AMERICA, LLC

NOTE: Protect the connector -2- and the contacts on the transmission fluid temperature sensor 2 from transmission fluid. Clean the connectors immediately if they come in contact with the transmission fluid (Manual Transmission Fluid). Transmission fluid can cause contact problems in the connector contacts.

-- Remove the transmission fluid temperature sensor 2 -1-.

-- Drain the transmission fluid (MTF).

Install in reverse order of removal. Note the following:

- Tightening specifications: Transmission fluid temperature sensor 2 to transmission, 45 Nm

-- Attach the wiring harness to the transmission -arrows-.

-- Fill the manual transmission with fluid. Refer to **[For engine(s) CCBA] General Information** .

-- Clean the transmission and tunnel crossmember.

SPECIAL TOOLS

Special tools and workshop equipment required

- Hook and Support Tool T40197

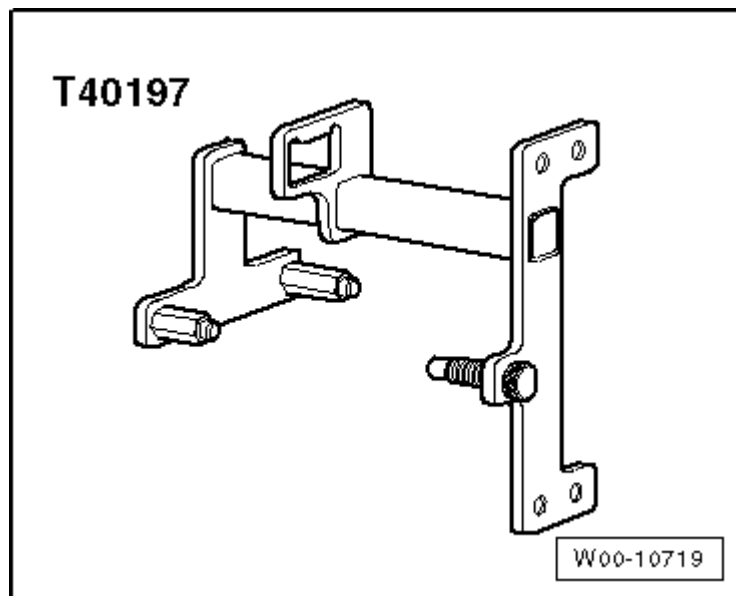


Fig. 10: Identifying Hook and Support Tool T40197
Courtesy of AUDI OF AMERICA, LLC

- Oil Collecting and Extracting Device V.A.G 1782

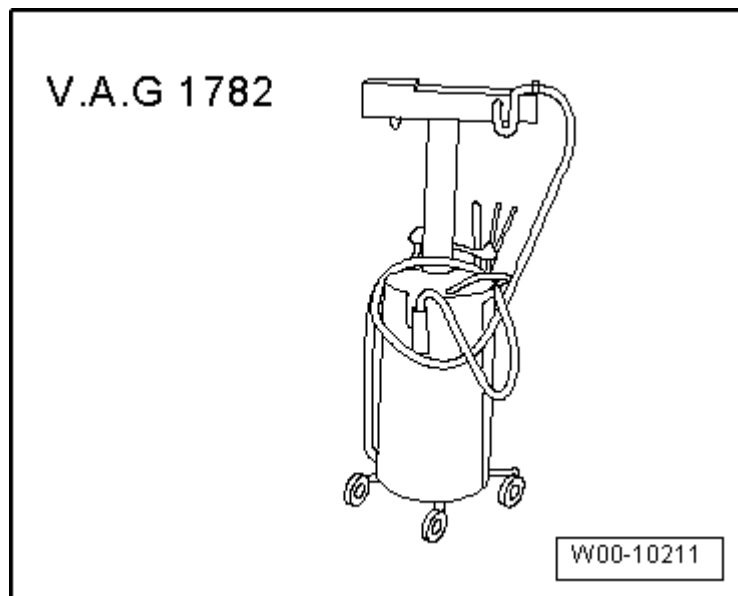


Fig. 11: Identifying Oil Extractor V.A.G 1782
Courtesy of AUDI OF AMERICA, LLC

- Engine and Transmission Holder VAS 6095

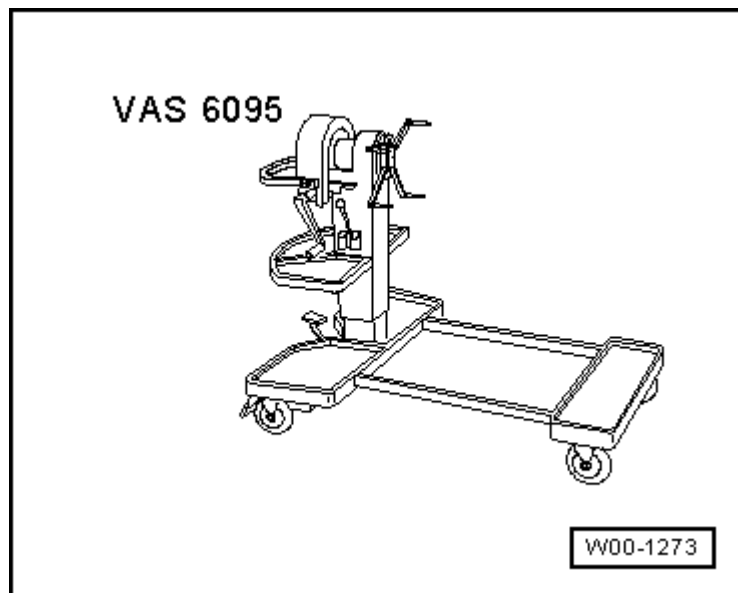


Fig. 12: Identifying Engine And Transmission Holder VAS 6095
Courtesy of AUDI OF AMERICA, LLC

- Shop Crane -Load Cap = 700-1200 kg VAS 6100

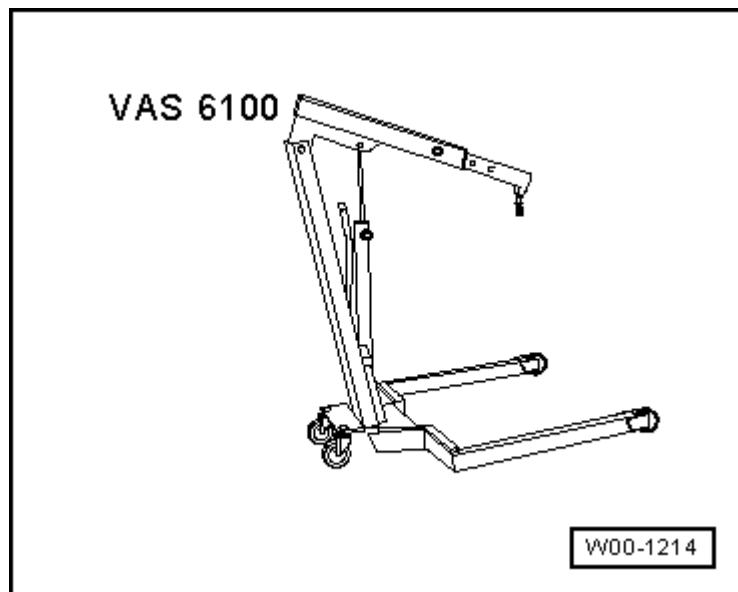


Fig. 13: Identifying Shop Crane VAS 6100
Courtesy of AUDI OF AMERICA, LLC

- Holding Plate VW 309

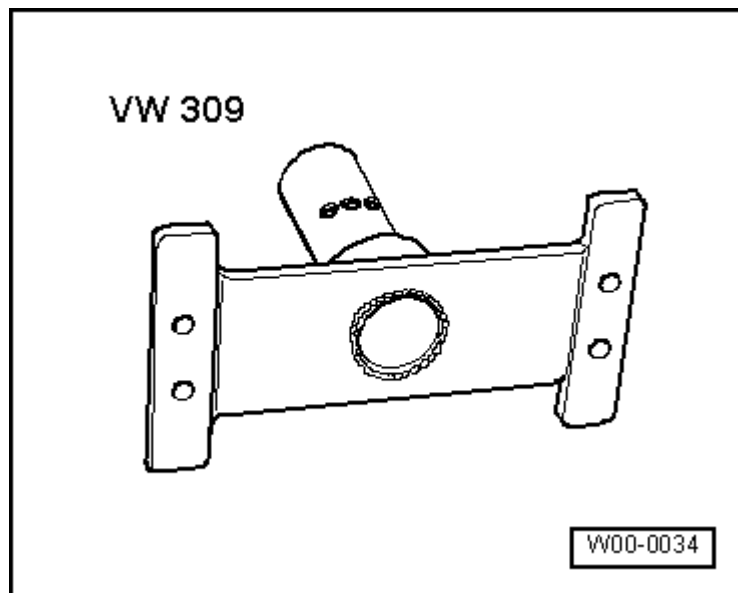


Fig. 14: Identifying Holding Plate VW 309
Courtesy of AUDI OF AMERICA, LLC