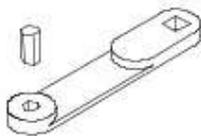


AUTOMATIC TRANSMISSION/TRANSAXLE – TDV8 4.4L DIESEL

TRANSMISSION FLUID LEVEL CHECK [G1313601]

GENERAL PROCEDURES

SPECIAL TOOL(S)



307-45

307-452

Wrench, Transmission Filler Plug

CHECK



WARNINGS:

- Observe due care when draining, as the fluid can be very hot.
- Observe due care when working near a hot exhaust system.



NOTE:

Some variation in the illustrations may occur, but the essential information is always correct.

1.

- The following steps must be observed before starting the transmission fluid level check.
- The vehicle must be on a horizontal ramp.
- The parking brake must be applied.
- Place the transmission control switch (TCS) knob in the N position.
- Make sure that the transmission oil has exceeded a temperature of 69 degrees celsius so that the thermostat has fully opened allowing full circulation of the transmission fluid. Allow the temperature to drop below 30 degrees celsius before checking the transmission oil level.

2.

 **CAUTION:**

Make sure that the transmission fluid temperature is below 30 degrees before starting the fluid level check.

Connect the diagnostic tool to the vehicle.

3.

- Start the engine.
- Apply, and hold, the footbrake.
- Move the TCS to the 'R' position and wait for 5 seconds.
- Move the TCS to the 'D' position and wait for 5 seconds.
- Engage second gear and wait for 5 seconds.
- Move the TCS back to the 'N' position.

4.

Make sure that the torque converter is full of oil by holding the engine speed at 2,000 rpm for a minimum of 30 seconds. Move the TCS to the park position and allow the engine to idle between 600rpm and 750 rpm.

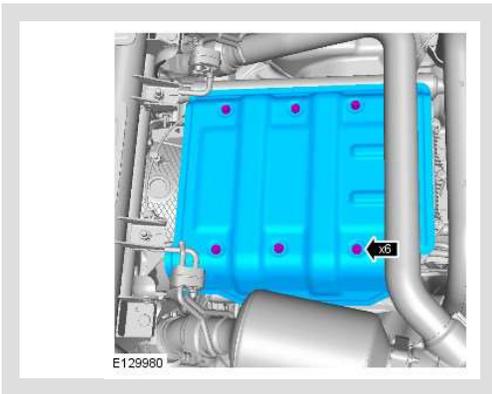
5.

 **WARNING:**

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

6.

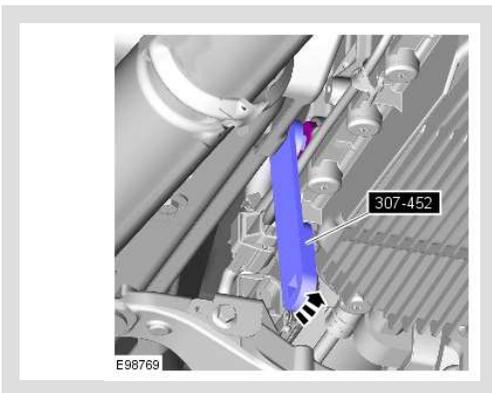


7. Place a suitable container under the transmission fluid fill plug.

8.

⚠ CAUTIONS:

- The transmission fluid level must only be checked when the temperature of the fluid is between 30 degrees and 50 degrees. The fluid level obtained will be incorrect if the reading is outside this temperature range.
- Discard the component.



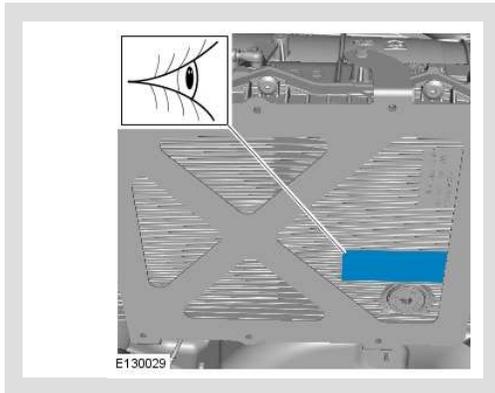
- *Special Tool(s):* [307-452](#)
- Clean the area around the transmission fluid level plug.

ADJUSTMENT

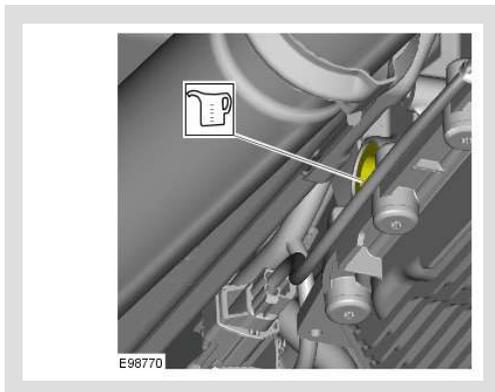
1.

⚠ CAUTION:

Make sure the correct specification and quantity of oil is used.

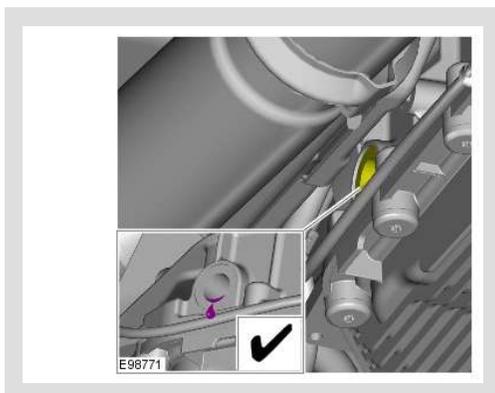


2.



If the transmission fluid does not come out of the transmission fluid fill plug hole the transmission fluid level is insufficient. If this is the case add the transmission fluid in 0.5 liter units into the transmission fluid fill plug hole until fluid comes out.

3.



Allow the transmission fluid to drain from the transmission fluid filler plug hole until the flow almost stops.

4.



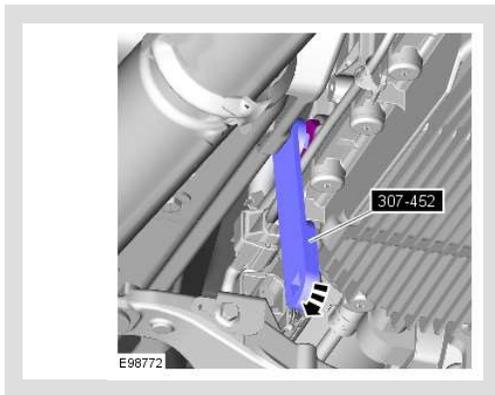
WARNING:

Make sure to support the vehicle with axle stands.



NOTE:

Install a new fluid level filler plug.

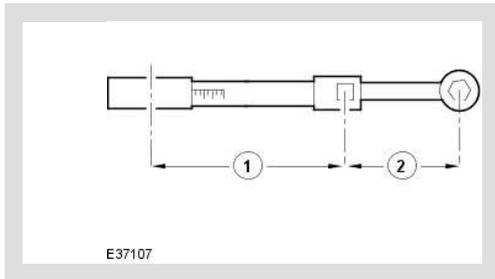


- Using the special tool, install the new transmission fluid fill plug.
- Lower the vehicle on the lift.
- Switch off the engine.
- Raise and support the vehicle.

5.

⚠ CAUTION:

Make sure the transmission fluid fill plug is tightened to the correct specification. Failure to follow this instruction may result in damage to the vehicle.



- To make sure the transmission fill plug is torqued to the correct specification. Using the special tool and torque wrench the following calculation steps must be followed.
- Step 1. Multiply 35 Nm by the effective length of the torque wrench (1).
- Step 2. Add the effective length of the special tool (2) to the effective length of the torque wrench (1).
- Step 3. Divide the total of step 1 by the total of step 2.
- Step 4. Set the torque wrench to the figure arrived at in step 3.
- Tighten the transmission fluid fill plug to the torque given by the calculation.

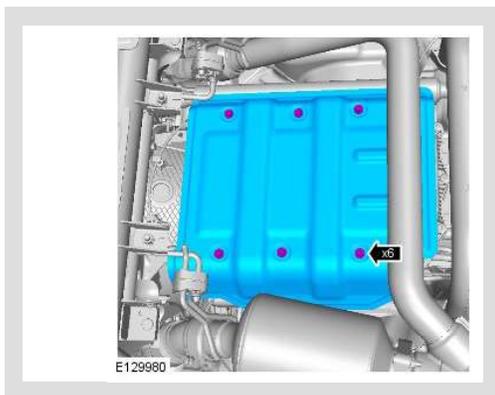
6.

Remove the special tool.

7.

Remove the container.

8.



Torque: 10 Nm

9.

Lower the vehicle.

10.

Disconnect the diagnostic tool.

