

# **TECHNICAL BULLETIN**

S307-09

10/2002

Subject

#### TRANSMISSION OIL PUMP FAILURE

**Model: S-TYPE Vehicles** 

Year: 2002.5 to 2003 VIN M45255 to M70000

Section: 307 Automatic Transmission System
Sub-Section: 307-01 Automatic Transmission/Transaxle

#### Summary

This Technical Bulletin has been issued due to customer complaints of the transmission warning lamp illuminating when selecting reverse gear. Harsh shifts may also occur. When interrogated with the Worldwide Diagnostic System (WDS) the **only** Diagnostic Trouble Code (DTC) logged in the Transmission Control Module (TCM) is P0736 (reverse gear incorrect ratio), indicating that the transmission oil pump has failed.

#### Action

When the symptoms above are experienced and **only** DTC P0736 is logged in the TCM, renew the transmission. On a customer complaint basis only, follow the workshop procedure below.

#### **Workshop Procedure**

- 1 Open hood and fit fender protectors.
- 2 Open luggage compartment lid and displace carpet for access to battery.
- 3 Disconnect battery (see Workshop Manual, JTIS CD ROM section: 414-01).

Note: Ensure the radio code is available before disconnecting the battery.

- 4 Remove the automatic transmission (see Workshop Manual, JTIS CD ROM, section: 307-01).
- 5 Install the new automatic transmission.

Note: For installation of transmission into 2.5/3.0L vehicles see Workshop Manual, JTIS CD ROM, section: 307-01, for installation of transmission into 4.2L vehicles continue with the workshop procedure from step 6.

6 Flush the transmission oil cooler and fluid tubes.

Note: If the automatic transmission fluid is very dirty or it contains metallic particles, then install new automatic transmission oil cooler and tubes.

7 Apply a thin layer of high-temperature grease to the centering spigot bore on the torque converter.

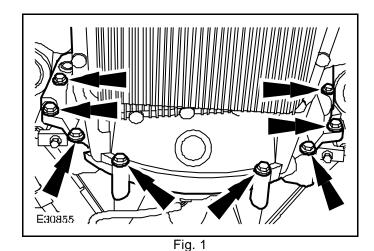
Note: Use high-temperature grease meeting Jaguar specification.

WARNING: DO NOT LET THE TORQUE CONVERTER DROP OUT OF THE AUTOMATIC TRANSMISSION. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN PERSONAL INJURY.

CAUTION: THE TORQUE CONVERTER HUB MUST ENGAGE FULLY IN THE OIL PUMP DRIVE GEAR THROUGHOUT THE WHOLE INSTALLATION PROCEDURE.

8 Raise the automatic transmission to the vehicle.

9 Install and fully tighten the retaining bolts to 48 Nm (see Fig. 1).



10 Install and fully tighten the retaining bolts to 48 Nm (see Fig. 2).

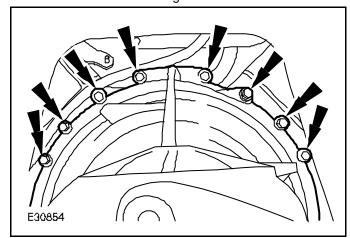


Fig. 2

CAUTION: MAKE SURE THE TRANSMISSION CONTROL MODULE (TCM) AND MAIN CONTROL VALVE BODY IS PROTECTED AGAINST ELECTROSTATIC DISCHARGE. FAILURE TO FOLLOW THIS INSTRUCTION MAY RESULT IN COMPONENT DAMAGE.

11 Connect the automatic transmission electrical connector (see Fig. 3).

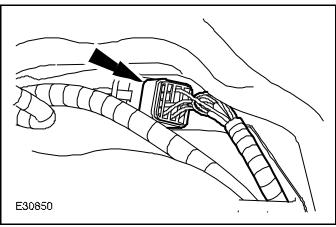


Fig. 3

12 Remove the tie-down strap (see Fig. 4).

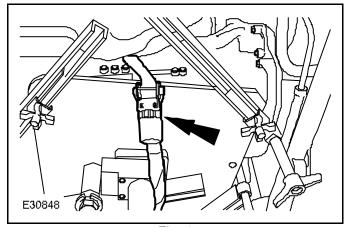


Fig. 4

- 13 Raise the rear of the transmission.
- 14 Install and fully tighten the automatic transmission mount retaining bolts to 50 Nm (see Fig. 5).

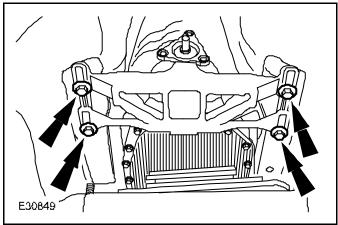


Fig. 5

15 Remove the special tool (see Fig. 6).

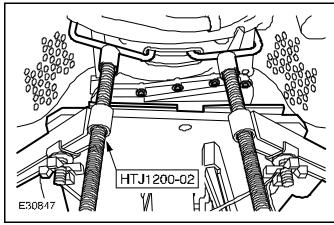
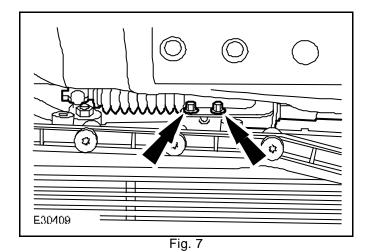


Fig. 6

16 Align the selector lever cable. Install and fully tighten the retaining bolts to 11 Nm (see Fig. 7).



17 Attach the selector lever cable (see Fig. 8).

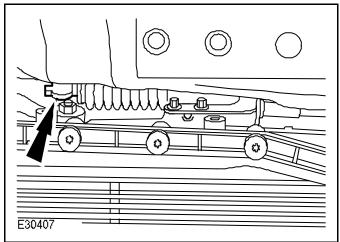


Fig. 8

18 Align the transmission fluid cooler tubes to the automatic transmission

19 Install and fully tighten the retaining plate and retaining bolt to 23 Nm (see Fig. 9).

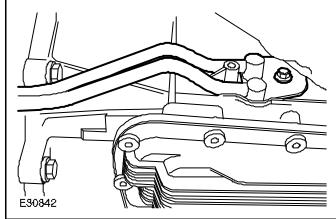
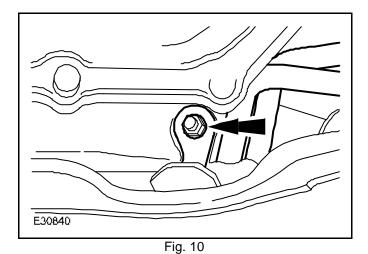
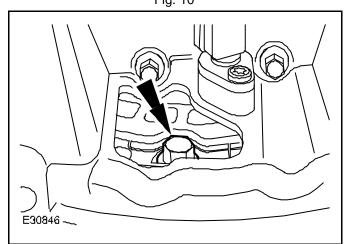


Fig. 9

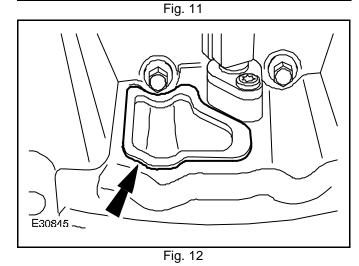
20 Attach the transmission fluid cooler tubes to the oil pan (see Fig. 10).



21 Install and fully tighten the torque converter retaining bolts to 55 Nm (see Fig. 11).

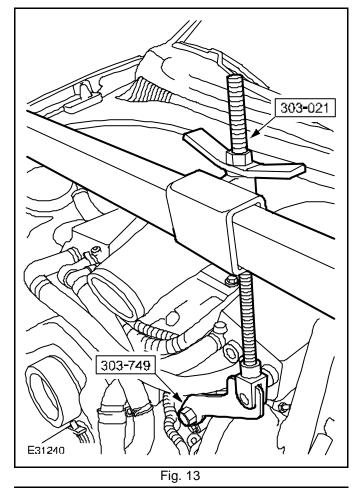


22 Install the rubber access cover (see Fig. 12).



- 23 Install the starter motor (see Workshop Manual, JTIS CD ROM, section: 303-06).
- Install the driveshaft (see Workshop Manual, JTIS CD ROM, section: 205-01). 24
- Install the exhaust system (see Workshop Manual, JTIS CD ROM, section: 309-00).

26 Remove the engine support bracket, special tool number 303-021 (see Fig. 13). Note: Vehicles with 4.2L engine with supercharger shown, vehicles with 4.2L engine without supercharger similar. Note: Left-hand shown, Right-hand similar.



27 Remove the special tools (see Fig. 14).

Note: Vehicles with 4.2L engine without supercharger shown, vehicles with 4.2L engine with supercharger similar.

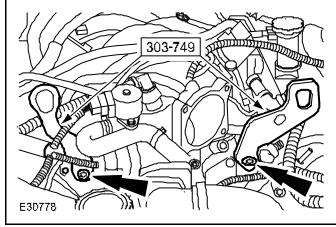


Fig. 14

Vehicles with 4.2L N/A engine only

- 28 Install the throttle body (see Workshop Manual, JTIS CD ROM, section: 303-04B).
- 29 Connect the battery (see Workshop Manual, JTIS CD ROM, section: 414-01).
- 30 Carry out a transmission fluid level check (see Workshop Manual, JTIS CD ROM, section: 307-01).

### **Parts Information**

The following parts must be ordered via Jaguar Cars Parts Operations (or through NSC/importer).

Description	Engine Variant	Part Number	Quantity
Automatic transmission	2.5L	XR8 38387	1
Automatic transmission	3.0L	C2C 12376	1
Automatic transmission	4.2L N/A	C2C 12374	1
Throttle Body Gasket	4.2L N/A	AJ8 2355	1
Automatic transmission	4.2L SC	C2C 12375	1

## **Warranty Information**

Description	SRO	Engine Variant	Labor Time Allowance	Warranty Code	Causal Part
Automatic transmission renew	44 20 01	2.5L	5.6 Hours	FB-GF-01	XR8 38387
Automatic transmission renew	44 20 01	3.0L	5.6 Hours	FB-GF-01	C2C 12376
Automatic transmission renew	44 20 01	4.2L N/A	5.4 Hours	FB-GF-01	C2C 12374
Automatic transmission renew	44 20 01	4.2L SC	5.3 Hours	FB-GF-01	C2C 12375