



S-TYPE

DATE 01/04

S307-15

SERVICE

TECHNICAL BULLETIN

**Squeal/Squeak Noise During Acceleration –
Flush And Replace ZF Transmission Fluid –
Repair Procedure**

MODEL 2003 MY-ON
S-TYPE
VIN M44998-ON

Issue:

Some 2003 MY-ON S-TYPE vehicles may exhibit a squeal or squeak noise heard during gearshifts while accelerating. To solve this concern, the transmission needs to be flushed and the fluid replaced with a new specification fluid.

Action:

In case of a verified customer complaint of the above condition, flush the transmission and replace the fluid as outlined below.

Note: Please inform the customer that the squeal or squeak noise may persist until the vehicle has covered at least 20 miles. This is to allow the transmission fluid to flow through all areas of the transmission.

WORKSHOP PROCEDURE

1. Raise vehicle on a four-post ramp.
2. Place clean drain container under the transmission.
3. Remove the transmission drain plug and allow fluid to drain.
4. Clean, install and tighten transmission drain plug to 8 Nm.
5. Transfer transmission fluid from container to a suitable measuring jug, measure quantity and discard transmission fluid.
6. Clean measuring jug.
7. Measure equivalent quantity of new transmission fluid into the clean measuring jug.
8. Remove filler plug using special tool 307-452.
9. Using a clean syringe, fill the transmission with some of the measured fluid to filler plug level.
10. Turn ignition ON.
11. Ensure the selector lever is in 'P' and the handbrake is applied.
12. Start the engine.

NOTE: The information in Technical Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers." Do not assume that a condition described affects your car. Contact a Jaguar retailer to determine whether the Bulletin applies to your vehicle.

13. Immediately fill the transmission with remainder of the measured new transmission fluid.
14. Install and tighten transmission filler plug.
15. Apply footbrake.
16. Shift through selector lever positions from 'P' to 'R', 'N' and 'D' and back to 'N'.
17. With the selector lever in 'N', operate engine at 1500 rpm for one to two minutes.
18. Return selector lever to 'P'.
19. Release footbrake.
20. Switch off engine.
21. With the drain container under the transmission, remove the transmission drain plug.
22. Allow transmission fluid to drain.
23. Remove and discard the transmission drain plug seal.
24. Clean the transmission drain plug.
25. Install a new transmission drain plug seal.
26. Install and tighten transmission drain plug to 8 Nm.
27. Clean excess fluid from the transmission fluid pan.
28. Transfer transmission fluid from container to the measuring jug, measure quantity and discard transmission fluid.
29. Clean measuring jug.
30. Measure equivalent quantity plus 0.5 Liter of new transmission fluid into the clean measuring jug.
31. Undo and remove filler plug using special tool 307-452.
32. Using a clean syringe, fill the transmission with some of the measured fluid to filler plug level.
33. Position WDS alongside vehicle, switch Portable Test Unit (PTU) 'ON' and allow software to load.
34. Connect PTU to vehicle using diagnostic cable.

Note: Ensure WDS is loaded with software release JTP 759/27 or later.

35. Enter vehicle VIN and navigate to content model screen.
36. Select 'Transmission System'.
37. Press datalogger icon tab at the top of the screen.
38. Select and view 'Transmission Oil Temperature' signal ensuring the handbrake is on, with 'P' selected and start the engine as instructed.
39. Press tick to monitor temperature.
40. Immediately fill with remainder of measured fluid to filler hole level (fluid running from hole).
41. Install and tighten transmission filler plug.

42. Apply footbrake.
43. Shift through selector lever positions from 'P' to 'R', 'N' and 'D' and back to 'N'.
44. With the selector lever in 'N'. operate engine at 1500 rpm for one to two minutes.
45. Return selector lever to 'P'.
46. Release footbrake.
47. Allow transmission fluid temperature to reach 37°C.
48. Undo remove and discard transmission filler plug.
49. Allow the transmission fluid to drain from the filler plug hole until it becomes a slow trickle.
50. Install the new transmission filler plug using special tool 307-452 and tighten (see Workshop Manual, JTIS CD ROM, section: 307-01, General Procedures, Transmission Fluid Level Check).

Note: Make sure the transmission fluid temperature has not exceeded 50°C. If the transmission fluid has exceeded 50°C, install the transmission filler plug and allow the transmission to cool and repeat the complete level check.

- 51 Clean fluid residue from transmission.
- 52 Remove drain container.
- 53 Switch the ignition OFF.
- 54 Switch OFF PTU, disconnect from vehicle and return WDS to original location.

Parts Information:

| <u>DESCRIPTION</u> | <u>PART NUMBER</u> | <u>QTY</u> |
|------------------------------|--------------------|------------|
| Transmission fluid | C2C 8432 | 6 |
| Transmission drain plug seal | C2C 6730 | 1 |
| Transmission filler plug | C2C 6729 | 1 |

Warranty Information:

Warranty claims should be submitted quoting the information found in the table below. This will result in payment of the stated time and, where applicable parts/miscellaneous expense codes as listed.

| Description | SRO | Time | Causal Part Number |
|------------------------------|----------|----------|--------------------|
| Transmission flush procedure | 44.91.30 | 1.3 hrs. | C2C 8432 |