



XJ range

DATE 08/04  
Amended 12/04

XJ307-05

**SERVICE**

## **TECHNICAL BULLETIN**

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

MODEL 2004 MY-ON  
XJ range

VIN G00001-ON

Remove and destroy Bulletin XT307-05, dated 08/04.  
Replace with this Bulletin.  
Revisions are marked with a bar and in bold text.

**Issue:**

Some 2004 MY-ON XJ range vehicles may exhibit a squeal or squeak noise heard during shifts 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 distance is required to allow the transmission fluid to flow through all areas of the transmission.

WORKSHOP PROCEDURE

1. Raise vehicle on lift.
2. Place a 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 the measuring jug.
7. Measure the 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.

**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 DEALER TO DETERMINE WHETHER THE BULLETIN APPLIES TO YOUR VEHICLE.**

11. Ensure the selector lever is in P and the parking brake is applied.
12. Start the engine.
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 range positions from P to R, N and D and back to N.
17. With the selector lever in N, run the engine at 1500 rpm for one to two minutes.
18. Return selector lever to P.
19. Release footbrake.
20. Switch off the 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. Place a new seal on the transmission drain plug.
26. Install and tighten transmission drain plug to 8 Nm.
27. Clean excess fluid from the transmission fluid pan.
28. Transfer the used transmission fluid from the container to the measuring jug. After measuring the quantity, discard the used transmission fluid.
29. Clean the measuring jug.
30. Measure an equivalent quantity plus 0.5 Liter of new transmission fluid into the clean measuring jug.
31. Remove the filler plug using special tool 307-452.
32. Use a clean syringe to fill the transmission with some of the measured quantity of new fluid up to the level of the filler plug.

**Note:** Ensure that the WDS is loaded with software release JTP 759/35 or later.

33. Position the WDS alongside vehicle, switch Portable Test Unit (PTU) ON and allow software to load.
34. Connect the PTU to the vehicle's data link connector (DLC).
35. Enter the VIN and navigate to content model screen.
36. Select 'Transmission System'.
37. Press the datalogger icon tab at the top of the screen.
38. Select and view 'Transmission Oil Temperature' signal. Ensure the parking brake is on, with P selected and start the engine as instructed.
39. Press check mark to monitor temperature.

40. Immediately add in the remainder of measured fluid amount up to the filler hole level (fluid running from hole).
41. Install and tighten the transmission filler plug.
42. Apply footbrake.
43. Shift through the selector lever positions from P to R, N and D and back to N.
44. With the selector lever in N, run the 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. 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 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 the fluid residue from transmission.
52. Remove drain container.
53. Switch the ignition OFF.
54. Switch OFF the PTU, disconnect from vehicle and return the WDS to original location.

### Global Technical Reference (GTR) Workshop Manual Information:

Dealer access: <https://hub.franchise.jaguar.com>

Internet access: <http://www.jaguartechno.com>

### 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:

Description	SRO	Time	Causal Part Number
Transmission flush procedure	44.91.30	1.2 hrs.	C2C 8432