

Squeaking Noise –
Power Steering System –
Purge/Flush System

MODEL 2002 MY-ON
X-TYPE

VIN C00294-ON

Remove and destroy Bulletin XT211-01, amended 02/04.
Replace with this Bulletin.
Revisions are marked with a bar and in **bold text**.

Issue:

On some **2002 MY-ON** X-TYPE vehicles within the above VIN range, a squeaking noise may be apparent from the power assisted steering system. The system can be purged of air or on certain vehicles drained and refilled with new fluid to address the customer concern.

Action:

In case of a customer complaint of steering noise on vehicles within VIN C28000-C65000, drain, refill (with fluid specified in Parts Information) and bleed the PAS system following the workshop procedure outlined below.

On vehicles within C00294-C28000 and C65000 onwards, or which have had the PAS fluid replaced with the Mobil fluid specified in Parts Information, perform steps 30 and 31 only.

PAS FLUSHING PROCEDURE

1. Open door.
2. Open hood, fit fender protector covers.
3. Remove PAS reservoir filler cap.
4. Raise vehicle on lift.
5. Remove radiator splash shield (See Workshop Manual Section: 501-02, SRO 76.22.90).
6. Remove the bolts securing the PAS fluid cooler (Illustration 1).

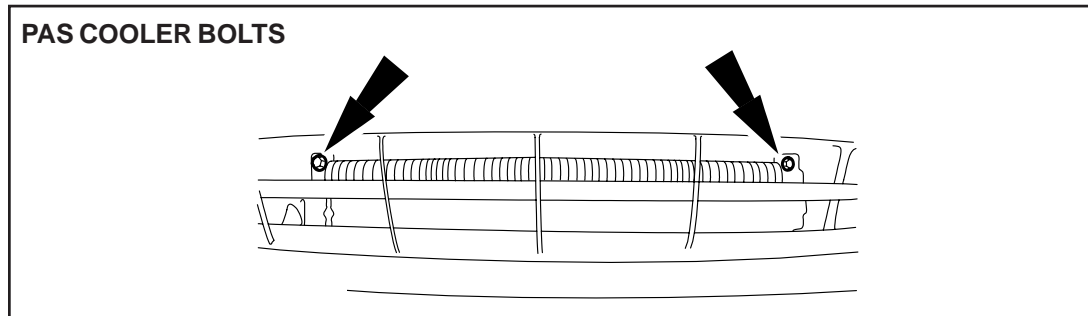


ILLUSTRATION 1

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.

7. Loosen and reposition the hose clip at the cooler for the line running from the PAS reservoir.
8. Place a suitable drain tray under vehicle. At the PAS cooler, disconnect the hose of the line running from the reservoir.
9. Allow fluid to drain from system.

Note: Lower vehicle on lift and slowly cycle steering ten times lock to lock to ensure all fluid is purged from system.

10. Raise vehicle on lift to suitable working height and reconnect the hose to PAS cooler.
11. Tighten the securing clip at cooler.
12. Align PAS fluid cooler to vehicle and install securing bolts.
13. Clean residual fluid from hose joint.
14. Lower vehicle on lift.
15. Fill PAS reservoir with new fluid.
16. Start engine and allow to idle for two minutes while slowly cycling steering lock to lock.

Note: If necessary top up fluid as air is purged from system.

17. Switch engine off.
18. Raise vehicle on lift to a suitable working height.
19. Repeat steps 6 to 18. Then continue with step 20.
20. Install splash shield (See Workshop Manual Section: 501-02, SRO 76.22.90).
21. Remove drain tray from under vehicle.
22. Lower vehicle on lift to a suitable working height with the wheels off the ground.
23. Set PAS fluid to correct level.
24. Install PAS reservoir filler cap.
25. Remove fender protector covers and close hood.
26. Start engine.

Note: Step 27 MUST be carried out quickly and forcefully.

27. QUICKLY AND FORCEFULLY turn steering to full lock. Bounce steering on/off full lock five times. Turn to opposite lock and repeat procedure.
28. Turn steering to full lock, hold on full lock for ONE SECOND, then QUICKLY turn back through 90 degrees. Slowly return to full lock and repeat five times. Turn to opposite lock and repeat procedure.
29. Close door.

30. Repeat steps 27 and 28 with the vehicle off the lift and the wheels on the ground.

⚠ Warning: Do not carry out the following procedure on the public highway, if a suitable area is not available contact the Technical Helpline (1-888-524-3577) for further assistance.

31. Repeat steps 27 and 28 while slowly driving the vehicle in circles to achieve full lock.

32. Retest for fault. If the fault is rectified no further action is necessary. If the fault is still apparent contact the Technical Helpline (1-888-524-3577) for further assistance.

Parts Information:

| <u>DESCRIPTION</u> | <u>PART NUMBER</u> | <u>QTY</u> |
|---|--------------------|------------|
| Transmission fluid – Mobil ATF (1 Liter bottle) | JLM 21703 | 3 |

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 |
|---|-------------|-------------|---------------------------|
| Drain, re-fill and bleed power steering system VIN C28000-C65000 | 57.91.28 | 1.4 hrs. | JLM 21703 |
| Purge air from power steering system VIN C00294-C28000 and VIN C65000-on | 57.91.28/01 | 0.2 hrs. | JLM 21703 |