

V8 XJ Series/XK

DATE 11/00

211-05

SERVICE

TECHNICAL BULLETIN

Noisy Servotronic II Steering Racks – Revised Restricters/Transfer Pipes – Replacement Kits MODEL 1999-2000 MY XK Range 1999-2000 MY V8 XJ Series VIN

031303-A09646 853936-F17957

Issue:

Some 1999-2000 MY XK and XJ vehicles within the above VIN ranges may experience complaints of high-pitched or metallic noises from the steering rack area. A transfer pipe kit has been made available to be installed as an alternative to replacing the steering rack. Vehicles manufactured after this VIN range are factory-equipped with the revised transfer pipes and the replacement kits are available as a service item.

The replacement kits consist of a short and long transfer pipe containing revised restricters. The pipes **must be installed in pairs** (Illustration 1) to ensure the correct operation of the steering rack.

Action:

In cases of customer complaint only on a 1999-2000 MY XK and XJ vehicles within the above VIN ranges, take the following action.

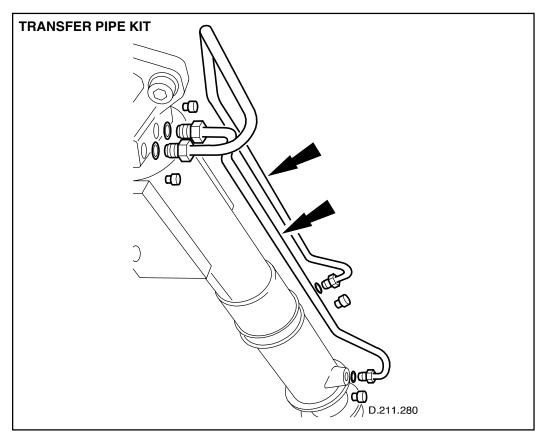


ILLUSTRATION 1



To install the transfer pipe replacement kits, follow the procedure below.

WORKSHOP PROCEDURE

1. Disconnect the car battery.

Note: Before disconnecting the battery, note customer preferences such as sport mode switch, cruise control, clock settings, radio settings, etc.

A Warning: After the battery has been disconnected, wait for one minute for the air bag system to disarm.

- 2. Raise the vehicle on a lift.
- 3. Center the steering wheel ensuring the wheels are facing forward.

Note: Check that the steering rack is centered by aligning the centering cap on the pinion with the locator on the pinion casting.

- 4. Loosen and remove the lower column clamp bolt at the pinion.
- 5. Mark the position of the lower column to rack centering cap for assembly purposes.
- 6. Reposition the lower column upwards.
- 7. Disconnect the connector for the steering rack transducer
- 8. Cut and remove the tie straps securing the PAS return pipe and transducer harness to steering rack.
- 9. Displace and remove the PAS feed pipe rubber insulators.
- 10. Clean the steering rack around the transfer pipes and feed and return union nuts.
- 11. Loosen and remove the PAS pipes to pinion housing retaining plate securing bolt.
- 12. Reposition the retaining plate down feed pipe.

Note: The down feed pipe must remain captive while being repositioned.

- 13. Place the drain pan under the steering rack.
- 14. Displace and reposition the PAS pipes from the pinion housing ensuring that the PAS fluid will run into the drain tin.
- 15. Remove the PAS feed and return pipe to pinion O-ring seals.
- 16. Undo and remove the steering rack and pinion mounting securing bolts.
- 17. Lower the steering rack and route the PAS return pipe past the pinion to steering rack pipes.
- 18. Loosen the transfer pipe union nuts.
- 19. Disconnect and remove the transfer pipes from the steering rack and place aside.
- 20. Lubricate the O-rings on the new transfer pipes and install to the steering rack.

Note: The replacement transfer pipes are to be tightened to 7.9 Nm +1 Nm.

21. Raise and align the steering rack to the securing holes in the crossmember while routing the PAS return hose behind the transfer pipes.

Page 2 of 3 Bulletin Number 211-05 Date of issue 11/00

- 22. Install and tighten the steering rack mountings on the cross member securing bolts.
- 23. Place new O-rings to the PAS front return and feed pipes, lubricate and reinstall.
- 24. Install and fully seat the return and feed pipes into the pinion housing.
- 25. Reposition and align the PAS pipes retaining bracket.
- 26. Install and tighten the PAS pipe retaining bracket securing bolt.
- 27. Clean any spillage from the steering rack area.
- 28. Reposition and install the steering rack feed pipe rubber insulators.
- 29. Install and tighten the tie straps to secure the return pipe and transducer harness to the steering rack.
- 30. Cut the end from the tie straps.
- 31. Reposition and connect the lower column downwards to the steering rack pinion (to the same position as previously marked).
- 32. Install and tighten the lower column securing bolt.
- 33. Connect the steering rack transducer connector.
- 34. Top up the PAS reservoir.
- 35. Reconnect the car battery.
- 36. Reset customer preferences such as sport mode switch, cruise control, clock settings, etc.
- 37. Start the engine and turn the steering wheel lock-to-lock to bleed the system.
- 38. Stop the engine, check and top up the PAS reservoir.

Parts Information:

DESCRIPTIONPART NUMBERLeft Hand Drive Transfer Pipe KitJLM 21603

Warranty Information:

FAULT R.O. TIME

CODE NUMBER DESCRIPTION ALLOWANCE
GB BG 42 57.91.20 Install transfer pipe kit 0.85 hrs.

