

## Sedan Range

DATE 12/97

10-12

**SERVICE** 

# TECHNICAL BULLETIN

Steering ColumnTilt Motor Seized – Replace Motor and Column/Mirror Movement Control Module – Procedure MODEL 1995-97 MY Sedan Range VIN

720001-790277

ThisTechnical Bulletin supersedesTechnical Bulletin 10-10 which can still be referred to for the steering column replacement procedure when necessary.

#### **ISSUE:**

An improved column/mirror movement control module (C/MCM) is now available for the above vehicles, which incorporates electronic sensing of the end stop of the steering column tilt mechanism.

This bulletin provides a revised repair procedure which involves replacing the tilt motor and changing to the improved C/MCM. This action will provide a more effective repair than that detailed in the Technical Bulletin 10-10, which should now be disregarded.

#### **ACTION:**

In case of a customer complaint of stuck steering column tilt function on a 1995-97 MY Sedan Range vehicle within the above VIN range, refer to the following procedure:

#### REMOVINGTILT MOTOR & COLUMN/MIRROR MEMORY CONTROL MODULE:

- 1. Move the driver's seat fully rearwards.
- 2. Disconnect the battery negative cable.
- 3. Remove the 2 screws that secure the steering column lower cowl and remove the cowl for access to the multiplugs.
- 4. Disconnect the following multiplugs: instrument rheostat, steering column tilt function, steering column telescope function.
- 5. Remove the lower cowl.

**A** WARNING: Ensure the battery has been disconnected for a minimum of 1 minute before attempting to work on airbag removal.

- 6. Turn the steering wheel 90° from the straight ahead position, and completely loosen the accessible bolt securing the airbag module (bolt remains captive).
- 7. Turn the steering wheel 180° to obtain access to the other airbag module bolt, and loosen the bolt completely (bolt remains captive).



- Release the airbag module, disconnect the multiplug and remove airbag module.
- 9. Disconnect the horn multiplug.
- 10. Center the steering wheel and remove the steering wheel retaining bolt.
- 11. Release the steering wheel from the steering column.
- 12. Pass the horn and airbag harnesses through the steering wheel opening, and remove the steering wheel.
- 13. Remove the 4 screws securing the driver side dash-liner.
- 14. Use the special tool JD-188 to remove the dash-liner securing clip.
- 15. Disconnect the air-conditioning aspirator multiplug and remove the dash liner.
- 16. Release the tilt-motor potentiometer multiplug from the mounting bracket and disconnect the multiplug.
- 17. Remove the 2 bolts securing the tilt motor.
- 18. Release the tilt motor from the drive coupling.
- 19. Release the anti-backout device from the tilt-motor potentiometer multiplug.
- 20. **Noting their installed position**, use special tool MS-1540 to release the red and brown motor wire terminals from the multiplug. Then remove the wires from the black sleeve.
- 21. Release the securing tang from the tilt-motor potentiometer and remove the potentiometer.
- 22. Remove the tilt motor.
- 23. Remove the 2 bolts securing C/MCM.
- 24. Disconnect the multiplugs and remove the C/MCM.

### INSTALLING TILT MOTOR & COLUMN/MIRROR MEMORY CONTROL MODULE:

- 1. Install the improved C/MCM and connect the multiplugs.
- Reinstall the 2 bolts to secure the C/MCM.
- 3. Install the existing potentiometer on the new tilt motor.
- 4. Insert the motor wires through the black sleeve with the potentiometer wires.
- 5. Insert the pins of the motor wires into the connector in the locations noted in step 21 of the removal procedure. Reinstall the anti-backout device in the connector.
- 6. Engage the tilt motor in the drive coupling and secure the tilt motor using the 2 screws.
- 7. Reinstall the multiplug connector for the tilt motor on the mounting bracket and reconnect the multiplug.
- 8. Position the dash liner and reconnect the multiplug for the air conditioning aspirator.
- 9. Reinstall the dash liner securing clip and the 4 screws to secure the dash liner.
- 10. Ensure that the from wheels are in the straight ahead position.

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- 11. Pass the horn and airbag harnesses through the steering wheel opening and place the steering wheel on the steering shaft in the center position.
- 12. Reinstall the steering wheel retaining bolt and torque to 40 Nm (30 lb ft).
- 13. Reconnect the multiplug for the horn.
- 14. Reconnect the multiplug for the airbag module and place the airbag module in position.
- 15. Turn the steering wheel 90° from the straight ahead position, and tighten the accessible bolt.
- 16. Turn the steering wheel 180° to obtain access to the other airbag module bolt, and tighten the bolt completely to secure the airbag module.
- 17. Reconnect the following connectors: instrument rheostat, steering column tilt function, steering column telescope function.
- 18. Reinstall the lower cowl (2 screws).
- 19. Reconnect the battery negative cable and reset the clock.
- 20. Road test vehicle to check steering wheel position and to verify repair.

▲ WARNING: If it is necessary to adjust the position of the steering wheel after the road test, ensure that a minimum of 1 minute has elapsed after disconnecting the battery before working on removal of the airbag.

#### PARTS INFORMATION:

DESCRIPTIONPART NUMBERQTYTilt motor modification kit includes:JLM 206071

- Steering column tilt motor (JLM 20194)
- Column/Mirror Memory Control Module

#### **WARRANTY INFORMATION:**

FAULT	R.O.		TIME
CODE	<b>NUMBER</b>	<u>DESCRIPTION</u>	<b>ALLOWANCE</b>
TD FD GH	57.91.12	Steering column tilt motor	0.75 hrs.
		- modify	

