Service Procedure # COL-167

Actuator Motor Replacement (Telescope Location)

April '06

Tools Required
- 5 mm Allen wrench / bit
- Ratchet
- 13 mm Socket
- Torque wrench
- 1/2 in. Socket

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1. Remove steering column shroud according to vehicle manufacturer’s instructions.

2. Unplug actuator from wire harness. Figure 1

3. Using a 1/2 in. socket and ratchet remove retaining nut (P/N 024031) Figure 2

4. Using a 5 mm Allen and a 13 mm socket remove top shoulder bolt and nut (P/N 023046) Figure 3

5. Remove actuator, mark the actuator to prevent reinstallation.

6. To install new actuator (P/N 410028), align new actuator over lower mounting stud and reinstall nut with 1/2 in. socket and torque wrench torque to 140 - 160 in.-lbs.

7. Align actuator at top hole by manually pushing / pulling on top of column. Figure 4

8. Reinstall shoulder bolt and nut. Figure 5

9. Using a 5 mm Allen and a 13 mm socket and torque wrench torque the shoulder bolt and nut to 70-80 in-lbs.

NOTE: New actuator end may need to be rotated 1/4 turn to install. DO NOT rotate more than 1/4 turn.

NOTE: This TRW Commercial Steering Systems’ service procedure has been written to help you repair commercial vehicles more efficiently. This procedure should not replace your manuals; you should use them together. These materials are intended for use by properly trained, professional mechanics, NOT “Do-it-yourselfers”. You should not try to diagnose or repair steering problems unless you have been trained, and have the right equipment, tools and know-how to perform the work correctly and safely.
10. Connect the new actuator to the wire harness. **Figure 6**

11. Reinstall steering column shroud according to vehicle manufacturer's instructions.