

TRW Automotive Commercial Steering Systems

Service Procedure # COL-167

Actuator Motor Replacement (Telescope Location)

April '06

NOTE

This procedure applies to TRW Commercial Steering Systems Steering Power Actuated steering column/s

NOTE

Take appropriate safety measures before beginning this procedure.

Tools Required

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

Actuator Motor Replacement (Telescope Location)

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.

NOTE

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

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.

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.



Figure 1

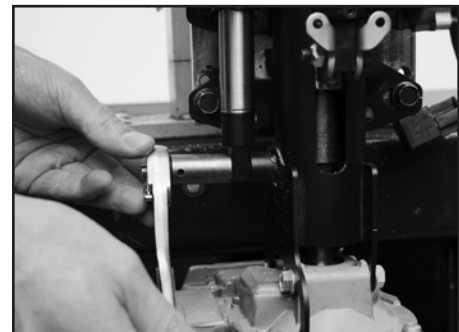


Figure 2



Figure 3

10. Connect the new actuator to the wire harness. **Figure 6**
11. Reinstall steering column shroud according to vehicle manufacturer's instructions.

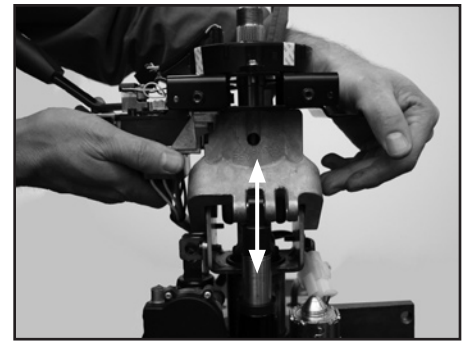


Figure 4



Figure 5



Figure 6

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