

### TRW Automotive Commercial Steering Systems

## Service Procedure # COL-166

# Actuator Motor Replacement (Tilt Location)

NOTE	This procedure applies to TRW Commercial Steering Systems Power Actuated Steering column/s
NOTE	Take appropriate safety measures before begin- ning this procedure.

Torque wrench

• "C" Clamp

#### Tools Required

- 5mm Allen wrench/bit
- Ratchet
- 13mm Socket

### Actuator Motor Replacement (Tilt Location)

- 1. Remove steering column shroud according to vehicle vehicle manufacturer's instructions.
- 2. Unplug actuator from wire harness. Figure 1
- 3. Using a 5mm Allen and a 13mm socket remove bottom shoulder bolt and nut (P/N 023046) **Figure 2**
- 4. Press out top pivot pin using a C clamp, placing a bolt in the guide hole to press the pin out. On the other side place a socket to allow the pin to pass through. (P/N 040259) **Figure 3**

<b>A</b> CAUTION	DO NOT use pounding force such as a hammer
	to drive pin out. You may damage the steering column.
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- 5. Remove actuator and mark to prevent re-installation of damaged actuator.
- 6. Align new actuator (P/N 410028) at top pivot pin hole. Figure 4
- 7. Press in pivot pin using a C clamp.
- 8. Reinstall shoulder bolt and nut Figure 5
- 9. Using a 5mm Allen and a 13mm 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-ityourselfers". 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. Connector the new actuator to the wire harness. Figure 6
- 11. Reinstall steering column shroud according to vehicle manufacturers instructions.



Figure 4



Figure 5



Figure 6

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