Service Procedure # COL-166

Actuator Motor Replacement (Tilt Location)
April '06

Tools Required
- 5mm Allen wrench/bit
- Ratchet
- 13mm Socket
- Torque wrench
- "C" Clamp

Actuator Motor Replacement (Tilt Location)

1. Remove steering column shroud according to 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**

**CAUTION** DO NOT use pounding force such as a hammer to drive pin out. You may damage the steering column.

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-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. Connector the new actuator to the wire harness. Figure 6

11. Reinstall steering column shroud according to vehicle manufacturers instructions.