

TRW Automotive Commercial Steering Systems

Service Procedure # COL-161

Gen II Cable Replacement Kit Kit # SK000279

Released April 2005

Tool List

- T27 Torx Drive
- 5/16" Wrench
- 7/16" Wrench
- 5/32" Hex (allen) Wrench
- Needle Nose Pliers

NOTE

This service procedure applies to all TRW Gen II columns that have a remote cable system for adjusting the tilt and telescope functions.

NOTE

Take appropriate safety measures before beginning this procedure.

Cable Replacement Procedure

1. Remove lower shrouds and any shrouds covering the foot pedal. Be careful not to damage or scratch the shrouds since they will be re-installed. Save all fasteners for reuse.
2. Remove the upper shrouds using T-27 torx drive as necessary to access the cable attachment block and cam system. See Figure 1 & Figure 2.
3. Carefully push the cable end fitting out of the black plastic block which is on the side of the column. See Figure 3.
4. Using needle nose pliers, lightly bend the small metal tab which retains the button end of the cable. Pull the button and end of cable out of the tilt lock mechanism. See Figure 4.

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.

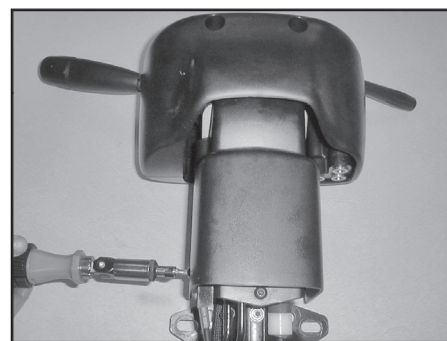


Figure 1 - Removing Shroud



Figure 2 - Lifting Bellows



Figure 3 - Remove End Fitting

5. Push the cable down and out of the white plastic cam. There is an open slot toward the bottom of the cam which allows removal of the cable.
6. Remove the cable from the upper portion of the column. Cut away any tie wraps which may hold the cable to the column or in its routing. See Figure 5. Note the routing of the cable system.

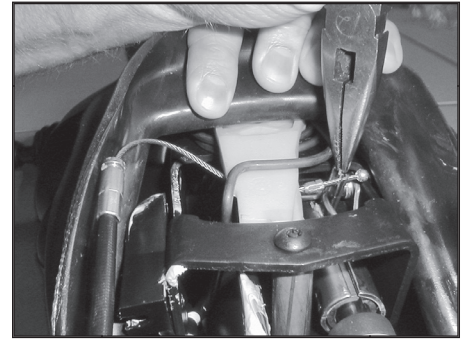


Figure 4 - Remove Cable

7. Remove the foot pedal assembly by removing the 3 internal hex screws using a 5/32" allen wrench or equivalent. See Figure 6.
8. Install the new foot pedal reusing the screws. Torque until tight (approximately 40 in lbs)

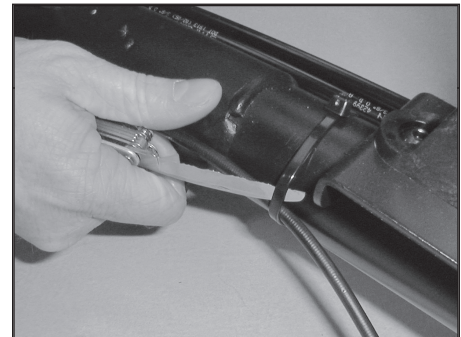


Figure 5 - Cut Tie Wraps

9. Route the cable as prior to removal. Install new tie wraps as appropriate.
10. Install the new cable at the column end by installing the ball end first to the tab. Bend the small retention tab back to prevent the cable end from coming out. See Figure 7 & Figure 8.

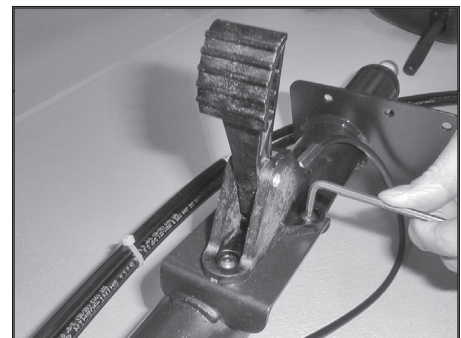


Figure 6 - Remove Foot Pedal Assembly

11. Route the cable and barrel fitting to the slot in the cam as before.
12. Snap the cable end fitting into the black plastic block on the side of the column. The cable tension may need to be released (see below) to allow this. See Figure 9.



Figure 7 - Route New Cable

13. Check for cable tension between the black plastic block and the cam. The cable should deflect easily under finger pressure, but not be sloppy. See Figure 10.



Figure 8 - Cable Assembled to Cam & Tab

14. Adjust the cable system as appropriate at the pedal end. Loosen the retaining nut using 7/16" wrench and turn the yellow zinc hex barrel using 5/16" wrench or fingers. Turning the barrel into the pedal mounting block (clockwise) will loosen the cable, turning it out (counterclockwise) will increase the cable tension.
15. Apply the pedal several times. The column should release fully for tilt and telescope function when the pedal is depressed fully. If the tilt lock does not fully unlock it is an indication that the cable is too slack, if the telescope lock will not hold, it is an indication of the cable being too tight. A good position is when the tilt lock releases fully, but the cable is not taut.
16. When satisfied with the adjustment, tighten the retaining nut using 7/16" wrench. Verify tilt and telescope functions are operating properly.
17. Reinstall the shrouding.

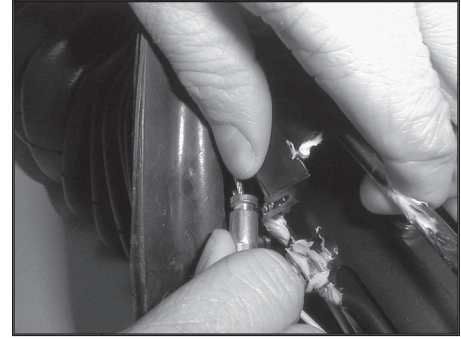


Figure 9 – Assembly of End Fitting



Figure 10 – Check Cable Tension



Figure 11 – Cable Retaining Nut

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