

TRW Automotive

Commercial Steering Systems

Service Procedure #COL-160

Adjustable Column Turn Signal Cancellation Kit Kit #SK000278

Released March, 2005

NOTE

This service kit applies to both TRW CA232FL000, A14-15588-000, CT233FL000, and A14-15587-000 Column Assemblies

Turn Signal Kit Procedure

- 1. Stop vehicle on a level surface with the front tires in the straightahead position; turn off engine, set parking brake, and chock tires.
- 2. Disconnect ground cable from battery and remove steering wheel from column.
- 3. Note position of turn signal cancel pin relative to turn signal switch. The turn signal switch is located at the 9 o'clock position. If the cancel pin is between the 1 o'clock and 5 o'clock position, discontinue this procedure and re-install steering wheel per vehicle manufacturer's instructions. If the cancel pin is located between the 8 o'clock and 10 o'clock position, removing and replacing the contact ring will allow relocation of the cancel pin.
- 4. Remove shroud spacer ring. Remove the retaining screw for the horn contact/cancel pin assembly and discard. Disconnect the horn wire from the horn contact/cancel pin assembly. Remove horn wire. (Figure 1)
- Carefully pry the horn contact/cancel pin assembly off of the shaft. Protect the upper shroud with rags if using opposing screwdrivers for this process. Discard the old plastic contact ring.
- 6. Clean the wheel shaft thoroughly using a solvent or cleaner appropriate for Loc-tite preparation.

This TRW Commercial Steering Systems' service bulletin has been written to help you repair commercial vehicles more efficiently. This bulletin 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.

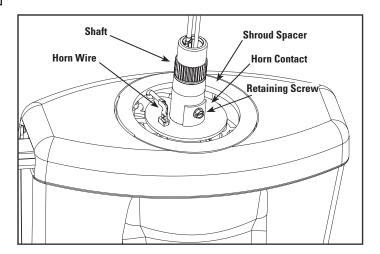
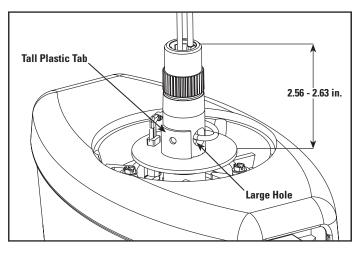


Figure 1

- 7. The new contact ring should be oriented with the tall plastic tab with the screw hole just to the clockwise side of the large hole. This puts the cancel pin in approximately the 5 o'clock position. Carefully press the new contact ring down on the shaft until the top of the wide flat surface is between 2.56 and 2.63 inches from the top of the shaft. The centerline of the hole in the tab should be at the same height as the centerline of the large hole. Be sure that the large hole is not covered so that the horn wire can be reinstalled. The cancel pin should be located at approximately the 5 o'clock position. The horn contact should be compressed against the underside of the contact ring, but not bottomed out. Reposition if necessary. (Figure 2)
- 8. Apply Loc-tite 290 (provided in kit) between the shaft and the plastic contact ring at the top of the ring. Allow the Loc-tite to wick into the full circumference of these parts. Take care that any excess does not run down the shaft to the bearing area. Wipe off any excess with a clean rag. Apply fresh horn contact grease (provided in kit) to the underside of the contact ring. (Figure 3)
- 9. Re-assemble the column and steering wheel in reverse order of disassembly. For all assembly torque values follow the vehicle manufacturers recommendations.
- 10. Reconnect the battery ground cable.
- 11. Remove chocks from tires.

If the intermediate column was removed from the vehicle and modified to re-orient the turn signal cancel pin, TRW strongly recommends replacing it with a new intermediate column and the use of new pinch bolts for installation.





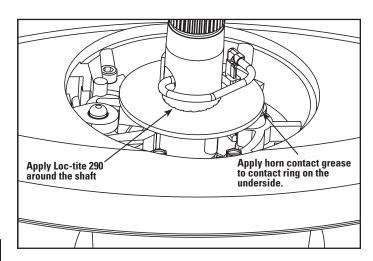


Figure 3

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