

TRW Automotive
Commercial Steering Systems

Service Procedure # COL-162

Field Replacement of CT616FL Steering Column Assemblies

Sept. 06

Tool List

- T25 Torx Drive
- T27 Torx Drive
- Ratchet
- 1 1/4" Socket
- 5/32" Hex (allen) Wrench
- Steering Wheel Puller
- Torque Wrench

NOTE

Take appropriate safety measures before beginning this procedure.

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.

1. Remove existing steering column assembly from vehicle.
2. Using a 1.25" socket & wheel puller, remove the steering wheel. See Figure 1.
3. Using a T25 Torx driver, remove the (3) upper shroud screws shown in Figure 2. The upper shroud that faces the driver will come off at this time; be sure to catch the large lock washers and re-use them in #9 below.
4. Using a T27 Torx driver, remove the (1) remaining upper shroud screw shown in Figure 3.
5. Still using a T27 Torx driver, remove the (4) lower shroud screws. See Figure 2.
6. Using a 5/32" Allen driver/wrench, remove the (2) screws shown, and remove the turn signal switch. See Figure 4.
7. **Marking it with red paint** to prevent re-use, set the old steering column assembly aside.
8. Re-use the turn signal switch, and install it on the new steering column assembly, re-using the (2) Allen screws from #6 above. Pull outward on the switch, while tightening the screws to 30-35 in-lbs. See Figure 4.

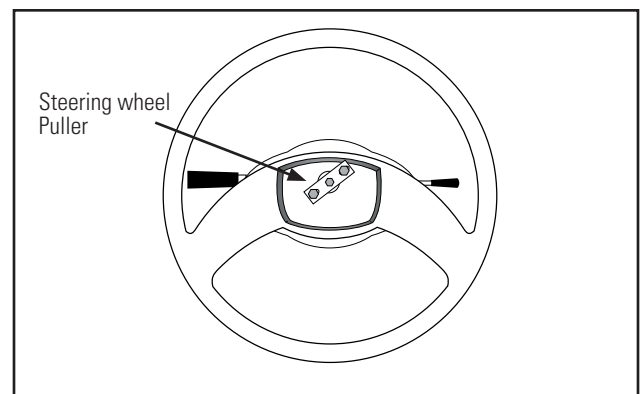


FIGURE 1

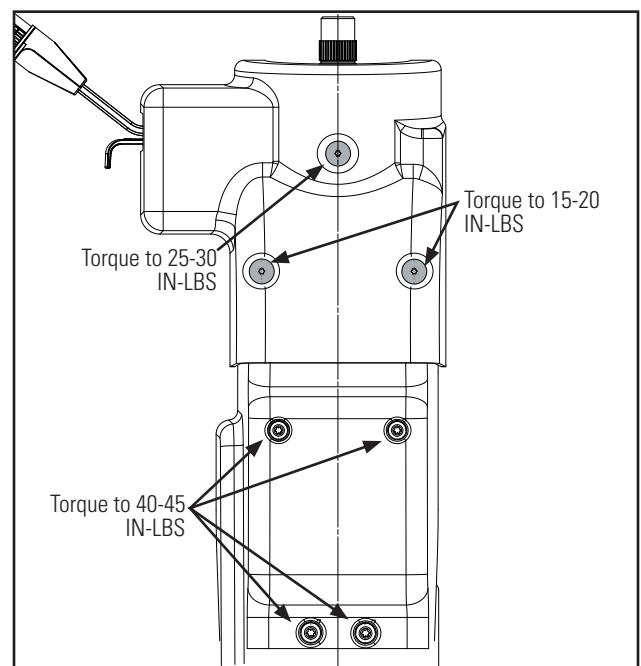


FIGURE 2

9. Install the upper shrouds onto the new column assembly, re-using the (3) screws from #3 above. Be sure to fit the large lock washers (from #3 above) over the (2) lower posts, on the inside of the upper shroud that faces the driver. Tighten the (1) upper screw to 25-30 in-lbs, and the (2) lower screws to only 15-20 in-lbs. See Figure 2.
10. Re-install the remaining upper shroud screw, tightening to 40-45 in-lbs. See Figure 3.
11. Install the lower shroud onto the new column assembly, re-using the same (4) screws from #5 above. Tighten all (4) screws to 40-45 in-lbs. . See Figure 2
12. Install new steering column assembly in vehicle.

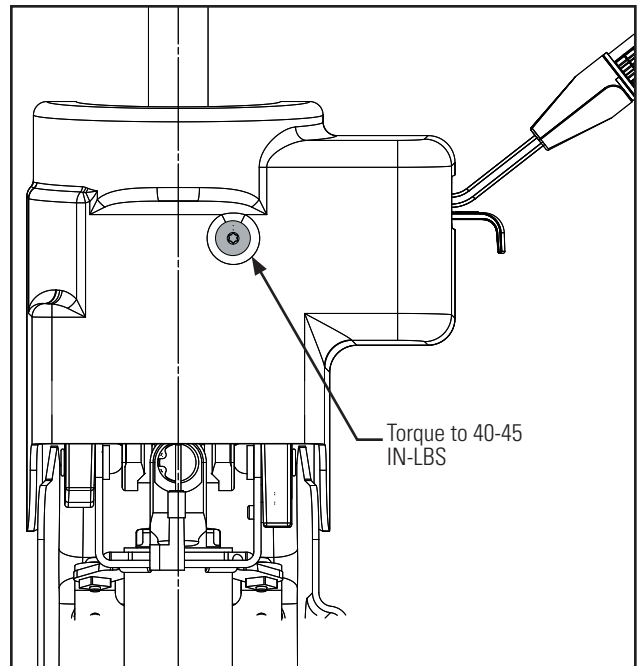


FIGURE 3

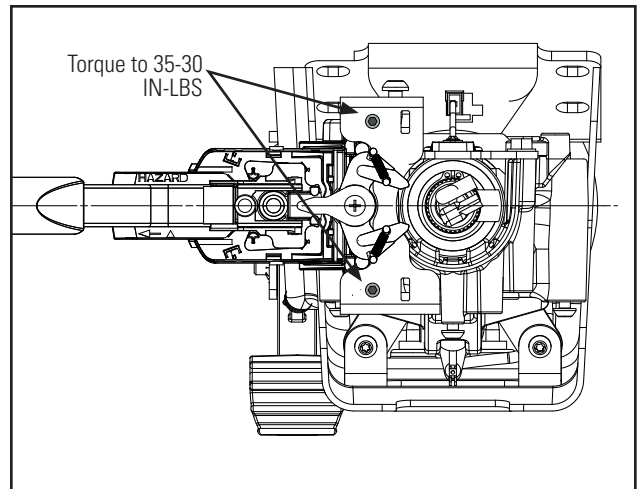


FIGURE 4

TRW Commercial Steering Systems

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