

Service Procedure COL-209

J19-6032/6033 Steering Column Turn Stalk Remove and Replace Procedure

Use when installing service kit 480791X2

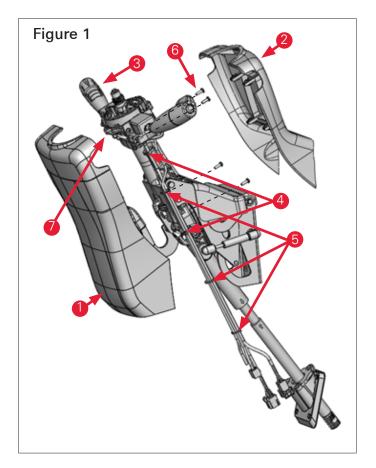
This ZF Commercial Steering Division installation procedure has been written to help you replace turn stalks on global columns. This procedure should not replace your manuals; you should use them together. These materials are intended for use by properly trained, professional mechanics, NOT "Do-it-yourselfers".

Tool List:

- Torque wrench capable of measuring up to 40 in-lb
- #2 Phillips drive bit
- #2 Phillips screw driver
- Side-Cut pliers

Column Components:

- 1. Back Shroud
- 2. Front Shroud
- 3. Turn Stalk
- 4. Large Cable Tie (2)
- 5. Small Cable Tie (3)
- 6. Shroud and stalk mount screws (6)
- 7. Push mount cable tie



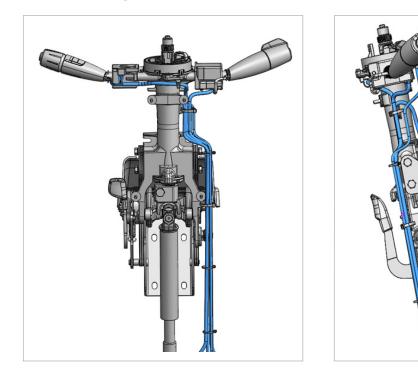
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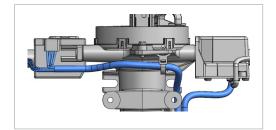




COLUMN OVERVIEW – CLOCKSPRING

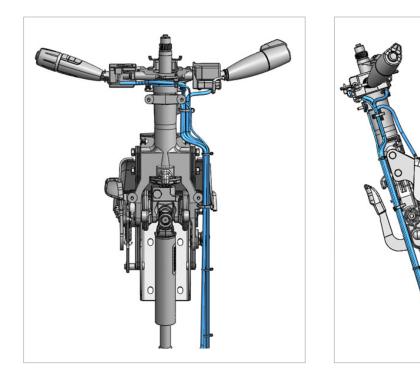
Before starting service replacement work, note the harness routing shown below.

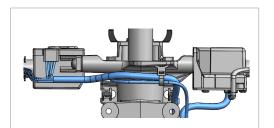




COLUMN OVERVIEW – HORN CONTACT

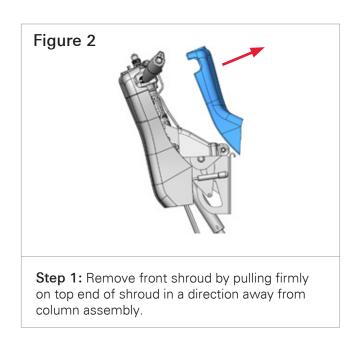
Before starting service replacement work, note the harness routing shown below.

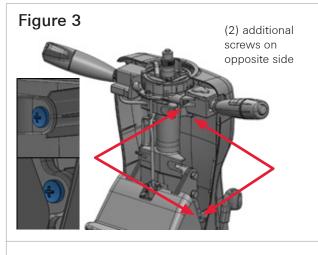






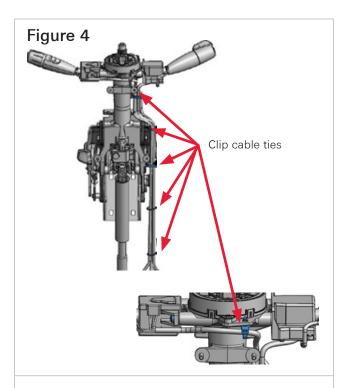
DISASSEMBLY PROCEDURE





Step 2: Remove (4) shroud screws using #2 Phillips screw driver.

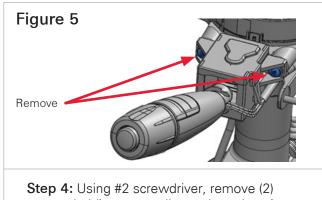
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Step 3: Using side cuts, clip (2) large, (3) small cable ties, and (1) push mount tie holding wire harness bundle together. To remove push mount tie, clip off pointed head protruding through housing.

WARNING

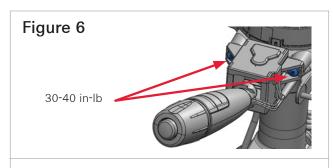
Be sure NOT TO CLIP OR PINCH wire when clipping cable ties.



screws holding turn stalk to column housing.



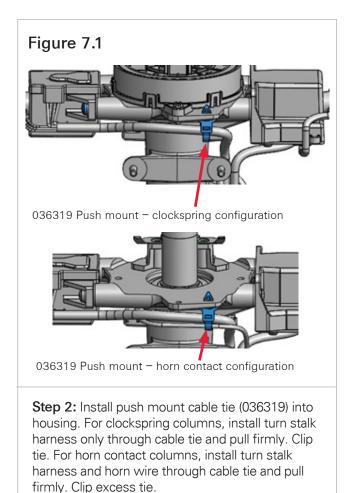
REASSEMBLY PROCEDURE

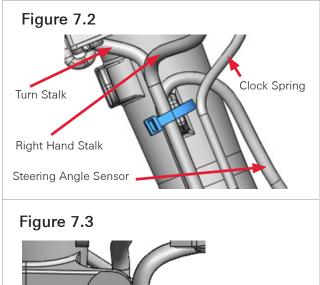


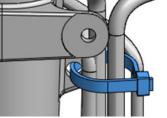
Step 1: Using new #2 Phillips screws provided with stalk service kit, install turn stalk back onto column. Using torque wrench, Torque screws to 30-40 in-lbs.

WARNING

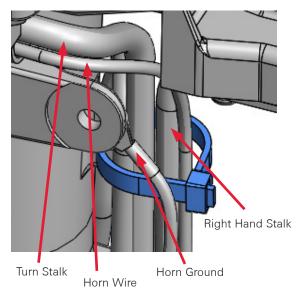
Be sure to properly attach wire harness as prescribed below to ensure harnesses do not get caught in moving assemblies.







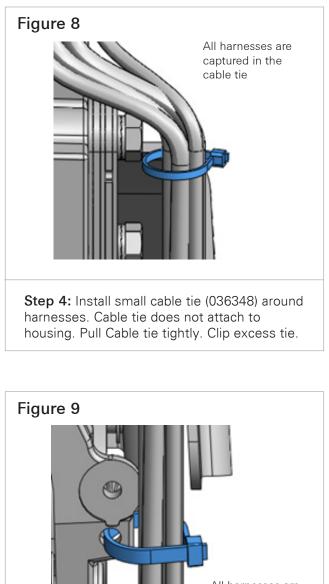




Step 3: Install large cable tie (036316) around harnesses and into column housing feature as shown in Figure 7.2 ,7.3, 7.4. For columns utilizing clock springs, see 7.2 and 7.3, for assemblies with horn contact systems, see 7.4. Pull cable tie tightly. Clip excess tie.



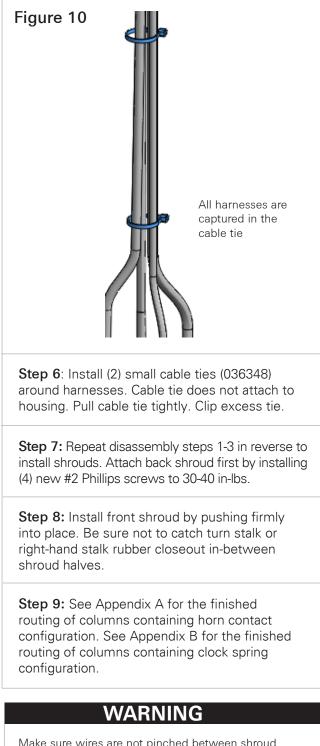
REASSEMBLY PROCEDURE continued



All harnesses are captured in the cable tie

Step 5: Install large cable tie (036316) around harnesses and into column housing feature as shown. Pull cable tie tightly. Clip excess tie.

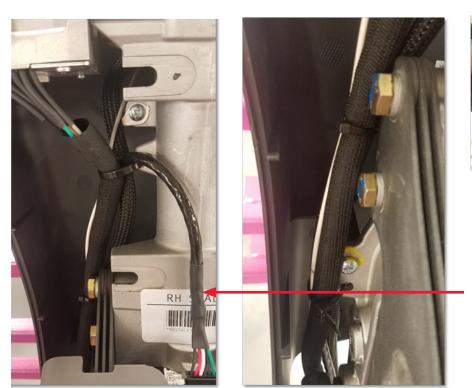
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Make sure wires are not pinched between shroud halves during shroud installation.



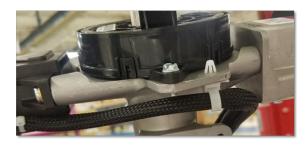
APPENDIX A – HORN CONTACT





If column does not contain SAS, SAS harness will not be included in column and cable tie.

APPENDIX B – CLOCKSPRING



If column does not contain SAS, SAS harness will not be included in column and cable tie.

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