Service Procedure COL-210

J19-6032 Steering Column Clockspring Remove and Replace Procedure

Tool List:
- Torque wrench – capable of measuring up to 40 in-lb
- ¼” socket
- #2 Phillips drive bit
- #2 Phillips screw driver
- Side-Cut pliers

Column Components:
1. Back Shroud
2. Front Shroud
3. Clockspring
4. Large Cable Tie (2)
5. Small Cable Tie (3)
6. Shroud mount screws (4)
7. Clockspring screws (2)
COLUMN OVERVIEW – CLOCKSPRING

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

**Figure 2**

**Step 1:** Remove front shroud by pulling firmly on top end of shroud in a direction away from column assembly.

**Figure 3**

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

**Figure 4**

**Step 3:** Using side cuts, clip (1) large and (3) small cable ties holding wire harness bundle together. DO NOT CLIP TOP, LARGE CABLE TIE.

**WARNING**

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

**Figure 5**

**Step 4:** Using ¼” socket and wrench, remove (2) screws fastening clockspring to column housing.
**REASSEMBLY PROCEDURE**

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

**Figure 6**

*Step 1:* Using new screws provided with clockspring service kit and ¼” socket, install new clockspring onto column. Using torque wrench, torque screws to 25-30 in-lbs.

**Figure 7**

*Step 2:* Install small cable tie (036348) around harnesses. Cable tie does not attach to housing. Pull cable tie tightly. Clip excess tie.

**Figure 8**

*Step 3:* Install large cable tie (036316) around harnesses and into column housing feature as shown. Pull cable tie tightly. Clip excess tie.

**Figure 9**

*Step 4:* Install (2) small cable ties (036348) around harnesses. Cable ties do not attach to housing. Pull cable tie tightly. Clip excess tie.

*Step 5:* Repeat disassembly steps 1-3 in reverse to install shrouds. Attach back shroud first by installing (4) new #2 Phillips screws to 30-40 in-lbs.

*Step 6:* Install front shroud by pushing firmly into place. Be sure not to catch turn stalk or right-hand stalk rubber closeout in-between shroud halves.
REASSEMBLY PROCEDURE continued

**Figure 10**

**Step 7:** Before installing steering wheel, with steering system on center and connected to lower column shaft, firmly pull tab in a direction parallel to steering wheel shaft until white plastic piece breaks off from column.

**Step 8:** See Appendix A for the finished routing

**WARNING**

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

APPENDIX A – HORN CONTACT

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

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