

TRW Automotive
Steering & Suspension Systems

Service Bulletin #COL-139

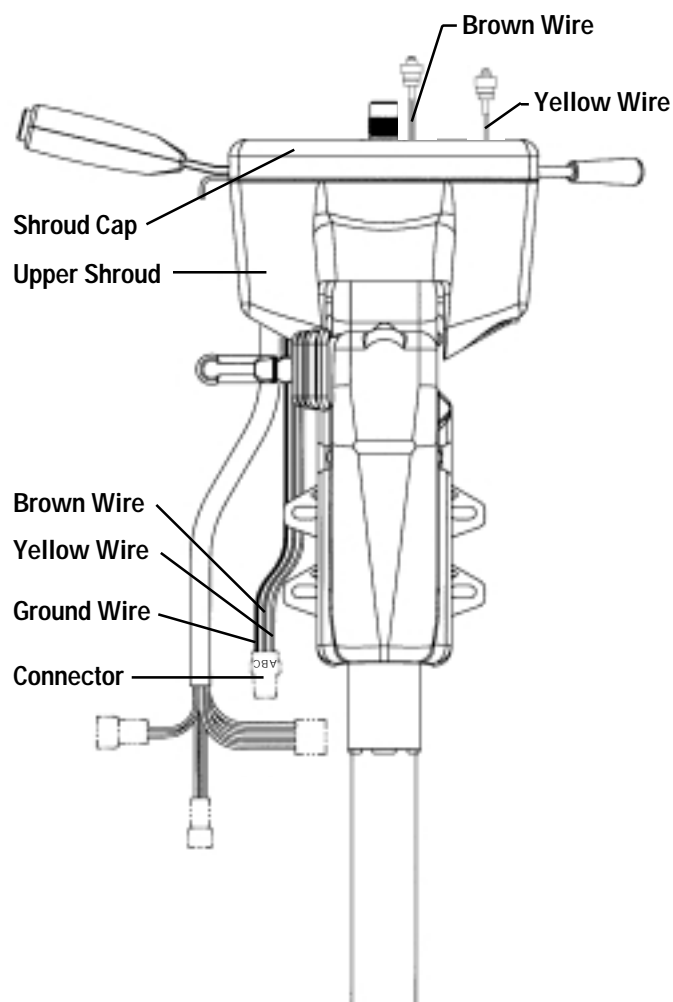
Horn Contact Replacement

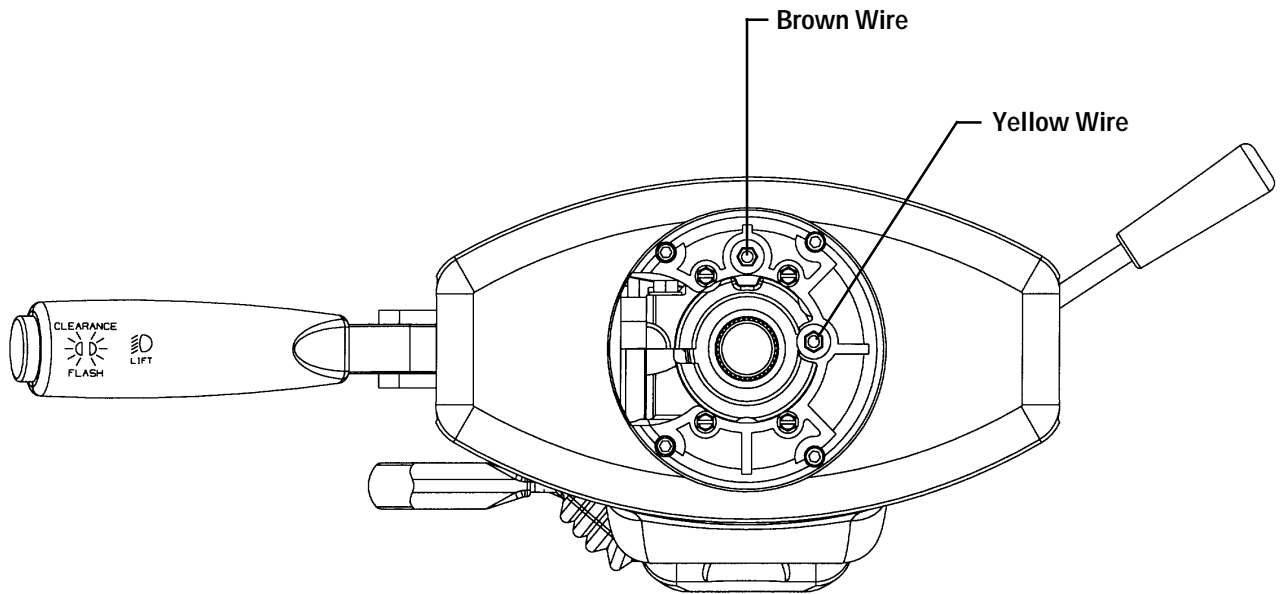
Kit #SK000201

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This TRW Commercial Steering Division 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-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. Park the vehicle with the wheels straight ahead, and shut off the engine.
2. Remove the steering wheel.
3. Disconnect the connector from the wiring harness.
4. Flip up the hinge cover on the connector.
5. Use a small screwdriver to depress the terminal spring tangs for the yellow and brown wires in the connector, and remove the terminals from the connector.
6. Cut the terminal end off of the yellow wire for ease of removal. Throw the terminal end away.
7. Note the routing of the wires, then remove both the yellow wire and its horn contact, and the brown wire and its horn contact from the column assembly. Discard both wires.





NOTE

For steps 8 and 9, if you have difficulty maneuvering the wires through the die cast housing, you can disconnect the upper shroud from the shroud cap. Squeeze gently on the upper shroud, then pull it down. It will only move a couple of inches, but it may help you thread the wires.

8. Install the new horn contact with the brown wire attached into the twelve o'clock position in the column. Pull the wire through from the other side.
9. Cut the end of the yellow wire, near the terminal. Install the new horn contact with the yellow wire attached into the three o'clock position. Carefully thread the wire through the slot, and pull taut.
10. Make sure both of the new contacts are fully seated.
11. Route the wires using the same path the old wires used. Make sure the wires can't get hung-up in the column's u-joint. The yellow wire routes across the top front of the die cast housing.
12. Strip the end of the yellow wire, and install the new terminal end onto the yellow wire. Crimp to ensure good contact.
13. Connect the yellow wire's terminal into slot "A" in the connector. Listen for a snap to make sure the terminal is seated correctly.
14. Connect the brown wire's terminal into slot "B" in the connector. Listen for a snap to make sure the terminal is seated correctly.
15. Flip the connector's hinge cover down, and make sure it snaps into place.
16. Reconnect the connector to the wiring harness.
17. Snap the upper shroud back into place if you disconnected it from the shroud cap.
18. Reinstall the steering wheel. Torque the wheel nut to manufacturer's specifications.

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