



# Technical Service Information

## 2001-03 “C/K” TRUCK WITH 4L60E TRANSMISSION SLIPPING 1-2 SHIFT OR SHUDDER

**COMPLAINT:** Trucks built before August 5, 2003 may have a complaint of slipping, shudder or a vibration on the 1-2 shift.

**CAUSE:** A 12 Hz electrical feedback from the charging circuit may be affecting the proper operation of the transmissions pressure control solenoid. This causes a fluctuation of line pressure which causes the above complaints when line pressure dips below normal.

**CORRECTION:** *First, with the complaint present, disconnect the four (4) way connector (with 2 or 3 wires in the connector) from the alternator. If the complaint no longer exists perform the procedure listed below.*

The alternator will require the installation of an external “Sense Lead” which is accomplished by adding a wire from the alternator four wire connector to the alternator output “BAT” terminal. The procedure is as follows as seen in figure 1:

- (1) Disconnect the negative cable from the battery/batteries.
- (2) Slide the protective boot on the alternator “BAT” terminal aside and remove the retainer and wire cable from the “BAT” terminal.
- (3) Unplug the alternator 4 cavity connector from the top of the alternator.
- (4) Inspect cavity “D” on the alternator connector for a **red** cavity plug.
  - (a) If a **red** cavity plug is present, it is not necessary to replace the generator connector.  
Remove the **red** cavity plug and continue with step 9.
  - (b) If a red cavity plug is NOT present, continue with the next step.
- (5) Remove and save the **orange** weather-pack seal from the 4 way connector.
- (6) Remove the 2 or 3 wires from the 4 way connector.
  - (a) On vehicles without Supplemental Brake Assist (SBA), install a **red** cavity plug into cavity “A” of the new 4 way connector.
  - (b) On some 2003 models with “SBA”, install the **dark blue** (circuit 5668) wire of the vehicle wire harness into cavity “A” of the new 4 way connector.
- (7) Install the **brown** (circuit 25) wire of the vehicle wire harness into cavity “B” of the new 4 way connector.
- (8) Install the **gray** (circuit 23) wire of the vehicle wire harness into cavity “C” of the new 4 way connector.
- (9) Obtain a piece of 0.8mm (18 gauge) **black** wire, 254mm long (8”) long.
- (10) Install a **red** terminal seal, and terminal end, on one end of the new **black** wire.
- (11) Install the new **black** wire into cavity “D” of the new 4way connector.
- (12) Reinstall the connector seal from the original connector, to the new connector.
- (13) Plug the 4 way connector into the alternator.
- (14) Route the **black** wire to the alternator “BAT” terminal, sliding the wire into the small end to the output terminal boot along side the alternator output wire.
- (15) Crimp and solder the ring terminal on the open end of the new **black** wire.
- (16) Place the alternator output wire and the new **black** wire onto the alternator “BAT” terminal and install the retainer. Connect and tighten the “BAT” terminal retainer to 80 in. lb. (9 N.m).
- (17) Connect and tighten battery cable to 13 ft. lbs. (17 N.m).

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### SLIPPING 1-2 SHIFT OR SHUDDER

#### SERVICE INFORMATION:

*Terminal*.....12048074  
*Cavity Plug*.....12059168  
*Red Wire Seal*.....12048086  
*Ring Terminal*.....12103514  
*Connector*.....12186568

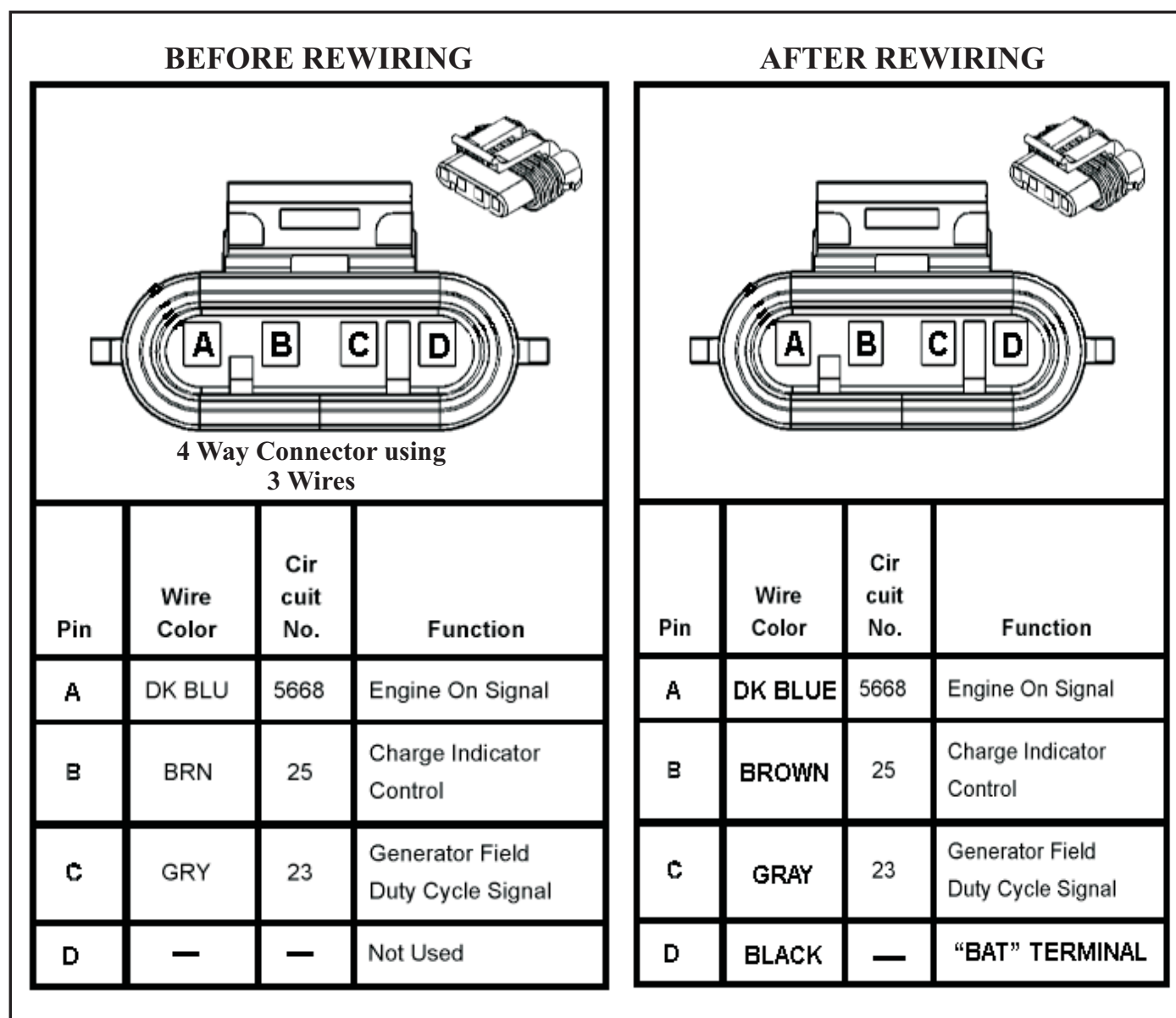


Figure 1