



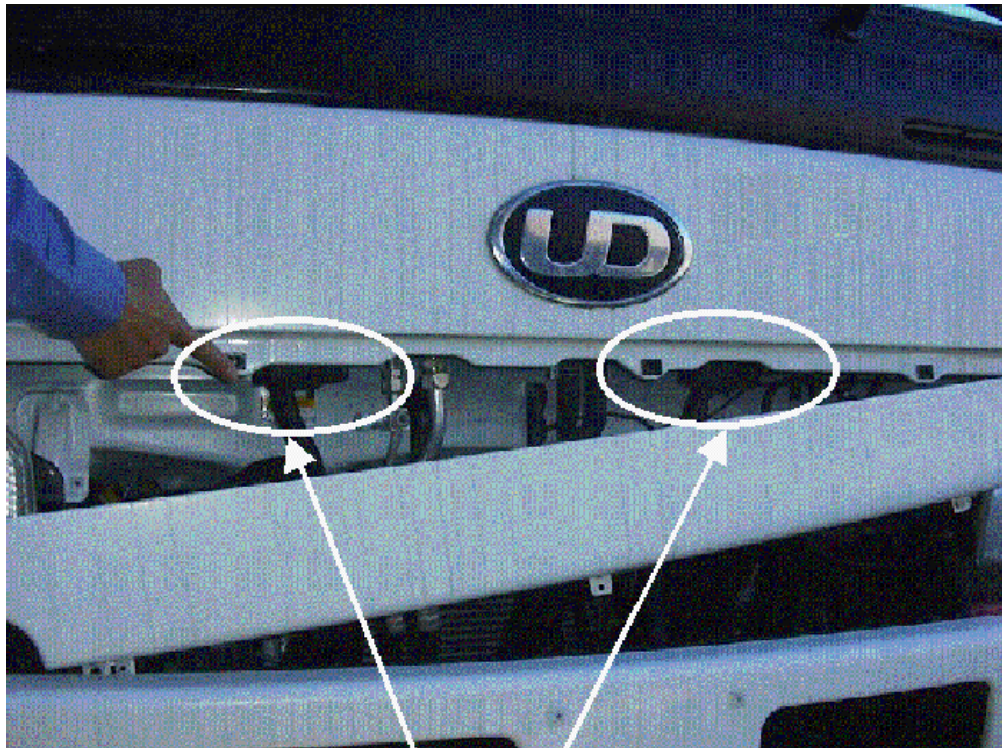
SERVICE NEWS LETTER 056

DATE: JANUARY 22, 2001
TO: UD DEALER SERVICE MANAGER
FROM: NDA SERVICE OPERATIONS DEPARTMENT
FILE IN THE POLICY SECTION OF THE TECHNICAL BULLETIN BINDER

ELECTICAL SERVICE CONNECTIONS FOR UD1200/UD1400/UD1800CS

The following information is provided to assist the UD Truck Service Technician during the troubleshooting of various electrical systems when wiring or connection problems are suspected as the cause of failure for the Engine Fuel Injection, Automatic Transmission or ABS Brake electrical systems.

The Super Multi Junctions (SMJ) located behind the front body panel (right and left sides) should be inspected for a proper connection as part of the normal diagnostic procedure. The two SMJ connectors are the main cab to chassis pass-through connections between all the ECU's and the main chassis wiring harness for the various systems. Should a technician experience difficulty in isolating specific electrical problems or when multiple systems or fault codes are involved, it is recommended to disassemble and inspect these connectors. Failure to inspect these electrical connections can cause incorrect electrical system diagnosis and the replacement of unnecessary parts.



SMJ CONNECTOR LOCATIONS

SERVICE PROCEDURES

A. To inspect the SMJ Connectors:

1. Remove the front grille.
2. Carefully pry the front body panel off using a suitable tool. The panel is held in place by plastic retainers. Caution should be used to avoid damage to the panel or surface paint when removing.
3. Carefully move the connector in a front-to-back rocking motion while gently pulling downward on the harness to release the locking tangs holding the connector to the cab body.
4. Separate the connector halves by removing the thru-bolt holding the connectors together.
5. Visually inspect the electrical terminal contact surface for any indication of poor contact or broken wires or terminals.

B. Reassembly of the SMJ Connectors After inspection:

1. Thoroughly clean electrical contact surfaces with spray electrical contact cleaner available locally from any electronic or hardware store.
2. Inspect the cleaned electrical terminals for damage. Replace terminals as required.
3. Apply a thin film of dielectric grease to all electrical terminals before reconnecting the connector halves. Use 3M brand part number 051135-08770 or equivalent.
4. Reinstall the pass thru-bolt and torque to 2.2 ~ 3.6 ft-lbs (26.4 ~ 43.2 in-lbs, 3 ~ 5 N·m, 0.3 ~ 0.5 kgf·m).
5. Apply a thin bead of 3M brand part number 051135-08663 or equivalent clear silicone sealer around the edge of the molded rubber dust boot that seals against the cab body.
6. Firmly press the connector and harness upward into the cab body opening until an audible "click" is heard. It may be necessary to first gently spread the lock tangs outboard for the connector to lock properly.
7. Reinstall the cab panel and grille previously removed.