

Turbocharger Smart Remote Actuator (SRA) Faults

M-255-016

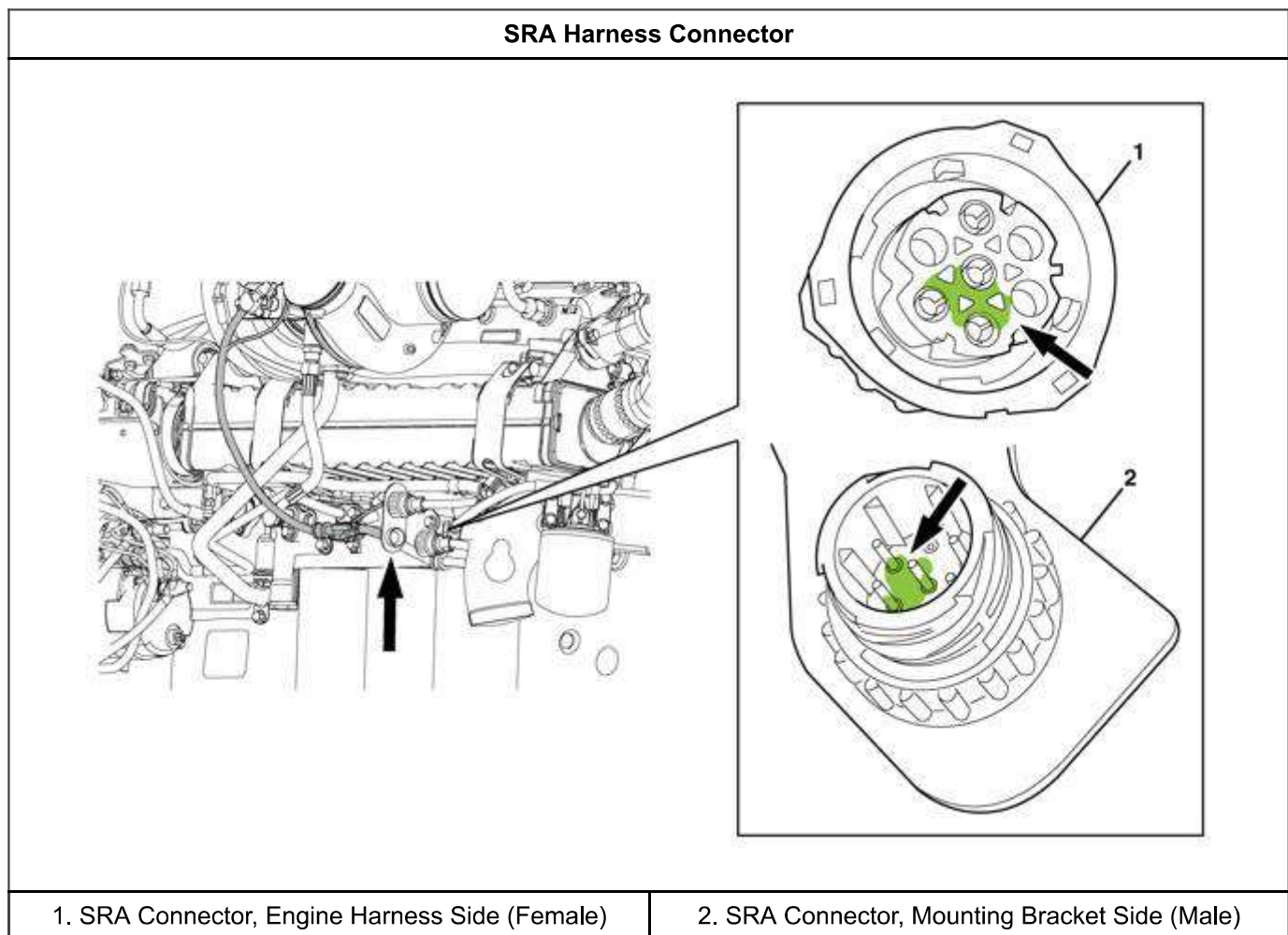
(March 2009)

Valid for

All CXU,CHU,GU,TD,MRU,LEU models built with MP7, MP8, MP10

Case description

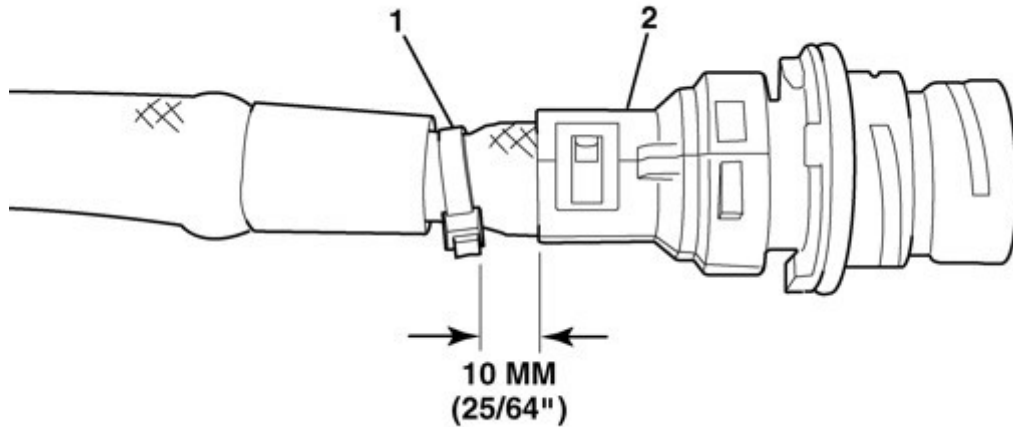
Wires within the smart remote actuator (SRA) connector located on the right-hand side of the engine below the turbocharger, are subject to vibration during engine operation. This vibration can result in terminal fretting which produces very fine dust particles, and can be seen as a fine green dust inside the connector. When these particles migrate between the female and male pin connections, intermittent contact problems will result and be made evident by SID 27 and PSID 232 fault codes.



Repair

Installing a connector back shell (part number 3985620) on the back of the male (mounting bracket side) SRA connector and securing the harness wires by installing a tie wrap around the fabric cover as shown in the illustration below, will correct this condition by dampening the vibration to reduce terminal fretting.

SRA Bulkhead Connector with Back Shell



Key	Qty.	Part No.	Description
1	1	948211	Tie wrap
2	1	3985620	Connector back shell

Installation

Should multiple instances of logged SID 27 or PSID 232 fault codes be encountered, install the connector back shell and secure the wires as follows:

1. Disconnect the SRA connector (the bottom connector on the mounting bracket), and then unscrew the bulkhead nut to remove the connector body from the mounting bracket.
2. Clean both the SRA side and engine harness side of the connector with a high-quality electrical contact cleaner.
3. Install the plastic back shell (part number 3985620) over the back of the connector (male side), making sure the fabric cover extends inside the shell as shown in above.
4. Secure the wires by installing a tie wrap (part number 948211) around the fabric cover immediately behind the plastic back shell (within 10 mm [25/64"] of the rear of the shell).
5. Reinstall the connector body to the mounting bracket, and then reconnect the connector. Road test the vehicle and recheck the system for faults.

Warranty information

Reimbursement

This Repair may be eligible for reimbursement if a product failure was experienced within the time and mileage limits of the applicable warranty coverage. Reimbursement is obtained via normal claim handling process.

Claim Type (used only when uploading from the Dealer Bus. Sys.)

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Labor Code

Primary Labor Code

2141N 01 56 — 0.4 hr., time allowed to modify SRA harness connector by installing back shell and tie wrap. Does not include "take-charge" time.

Causal Part	—
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Issued by

Technical Service

Mack Trucks, Inc. engages in a continuous program of testing and evaluating to provide the best possible product. Mack Trucks, Inc., however, is not committed to, or liable for updating existing chassis.