



Technical Service Bulletin

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Air Compressor Improper Grounding

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- BES CM0904 EV104B
- BES CM2450 EV105B

Issue Summary

- Cummins Inc. recommends installation of a temporary ground between the high voltage air compressor motor and the chassis. A Cummins Inc. Safety Campaign on affected products will be released shortly.
- Improper grounding between the high voltage air compressor motor and chassis can cause a voltage differential that can lead to electrical shock greater than 50V AC.
- Potential for electrical shock is **only** present if working on the air compressor while the high voltage air compressor motor is running.

Verification

1. Turn keyswitch OFF.
2. Verify if there is a ground strap connecting the high voltage air compressor motor to the chassis.

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Figure 1, High Voltage Air Compressor Motor without Ground Strap (Action Required; see Resolution).

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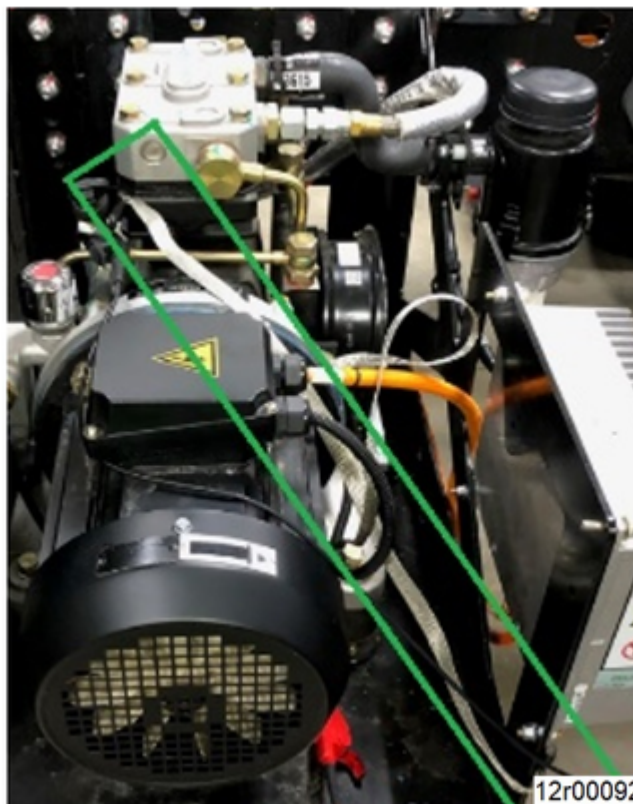


Figure 2, High Voltage Air Compressor Motor with Ground Strap Installed (No Action Required).

This TSB does **not** apply to units with a ground strap connected to the high voltage air compressor motor. See Figure 2.

Resolution

Install a temporary ground between the high voltage air compressor motor and the chassis for duration of service on or around the air compressor.

1. Prior to starting any work on or around the air compressor, turn keyswitch OFF.
2. Install a temporary grounding method between high voltage air compressor motor and chassis for the duration of working on the air compressor. An example of a temporary grounding method is connecting a jumper wire with alligator clips to a nut or bolt on the high voltage air compressor motor and a nut or bolt on the chassis.
3. Perform the necessary work.
4. Remove temporary grounding method following completion of work.

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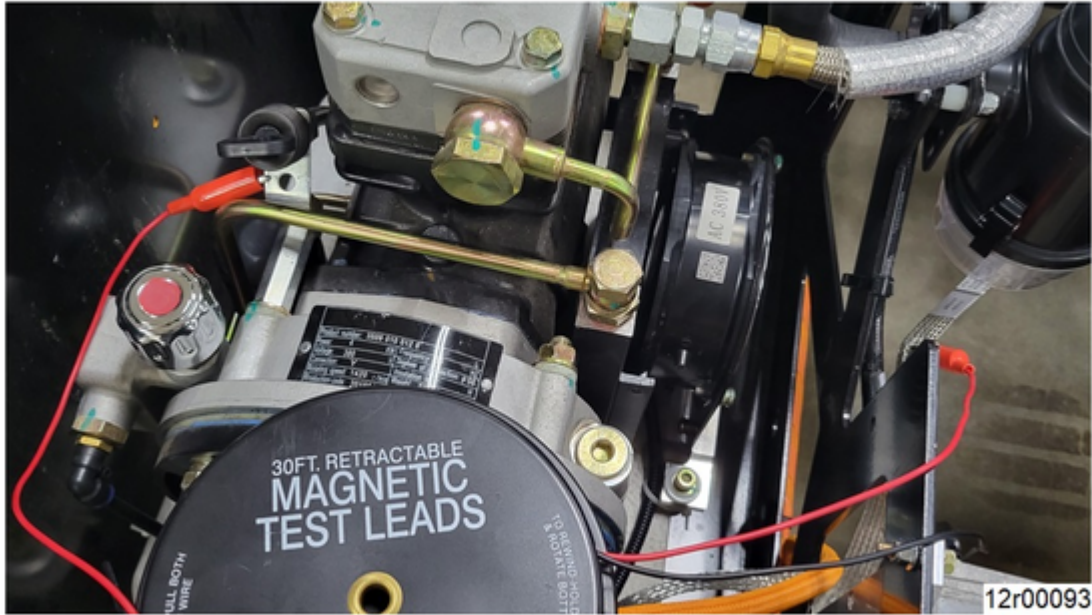


Figure 3, Air Compressor with Temporary Ground Installed.

Document History

Date	Details
2022-8-10	Module Created

Last Modified: 12-Aug-2022

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