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Coding Information

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Title: A/C Compressor Failures and Repair Practices

Applies To: All Models

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

09/21/2015 - Fixed link to TSI

DESCRIPTION

With any a/c compressor failure, the complete A/C system must be repaired as outlined in this document. Warranty data has proven that after a compressor failure, if ALL the procedures listed below are not followed, the compressor will fail again.

RESOLUTION

1. If the compressor has failed, and is not building pressure while in operation, remove the dryer. Cut it open and inspect for metal underneath the orange plastic screen.
2. If metal is found, flush the lines, replace the dryer, condenser, compressor, and TXV(s). For the recommended flushing procedure follow this IKNOW document: [A/C Flushing Tools, Techniques, and Flushing Solvent](#)

NOTE:

Navistar no longer recommends flushing condensers on vehicles newer than 2001. The only exception to this is if the flush operation is being performed only to remove oil and not debris from a failed compressor. See [TSI1900001 "Air Conditioning condenser replacement versus flushing"](#)

3. If no metal is found, replace dryer, reassemble system and evacuate to 1000 microns for at least 20 before recharging the system.
4. Check the thermistors to verify they are reading correctly. With the A/C system that has been at rest for more that 30min, the thermistor readings in DLB should be within 5 deg of each other. If not, replace the thermistor that is out of range.

5. The thermistors should also be inspected for the correct installation of the heat shrink. The heat shrink on the opposite side of the thermistor should not be installed OVER the convoluted tape. The picture below shows the correct way to install the heat shrink.



6. The Body Controller Data Version/Kernel level should also be checked. Kernel must be above 231, data version above 137. If it's not, update the Body Controller. An iApprove maybe needed based on the warranty service contract. Tech Service will approve any software updates on Body Controllers below kernel 231 or data version 137. For more details on the software improvements [CLICK HERE](#).

OTHER RESOURCES

- To view Compressor Test Procedure [CLICK HERE](#)
- [A/C HVAC Service Resource Center](#)

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