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Coding Information

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Title: Bus B6.7 Aftermarket Dual A/C Cylinder Head Failures

Applies To: Bus w/ B6.7 with Aftermarket Dual Air Conditioning Systems

CHANGE LOG

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

03/15/2021 - Initial Article Release

DESCRIPTION

This document will guide the user through the installation of Navistar approved brackets for the dual air conditioning systems

SYMPTOM(s)

Some configurations of aftermarket A/C systems can produce excessive loads on the cylinder head resulting in cracks around the thermostat housing area. This will be seen by the customer as an external coolant leak.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
N/A	

Customer Observations or Concerns:

Coolant leak from the thermostat area of the cylinder head

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A			

SERVICE PARTS INFORMATION

Parts Description (See Figure 1)	Part Number	Quantity Required	Item Number
BOLT, FLANGE HEXAGON M8 X 100MM	1817962C1	8	1
STRAP, CABLE LOCK	306132C1	6	2
BOLT M10 X 30MM	30665R2	4	2
PULLEY, DRIVE, ADD- ON AIR CONDITION COMPR	4075767C1	1	2
BUSHING, IDLER PULLEY	2513034C1	1	3
PULLEY,ACC DRIVE	4132519C91	1	3
BUSHING, DOWEL, 8MM X 13 MM LONG	4076142C1	2	4
BOLT, FLANGE HEAD M8 X 25	31055R1	2	4
BOLT M10 X 110	1819559C1	2	4
LOCTITE BLUE 242, 2 (Purchas Locally)	PTX24200	1	4

SUPPORT, MOUNTING AIR CONDITION COMPR FOR ISB	4076073C1	1	4
SUPPORT	4130850C1	1	5
BOLT M8 X 60	31059R1	1	5
BELT, FAN 6 PACKAGE C15/16 ENGINES	3593533C2	1	6
TENSIONER, AUTOMATIC BELT	1830033C2	1	7
BOLT M10 X 80	31064R1	1	7

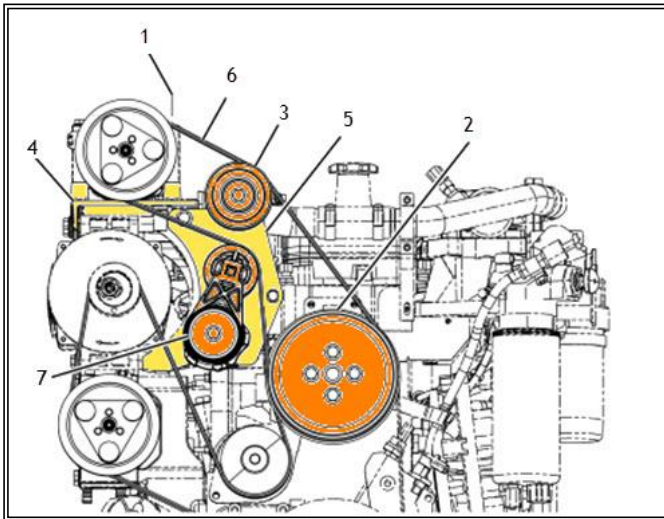


Figure 1: Parts Call Out - Bracket System

Parts Description (See Figure 2)	Part Number	Quantity Required	Item Number
HOSE, RADIATOR INLET, ENGINE, OUTLET	4042700C2	1	1
GUIDE, HOSE AND CABLE, 2 WAY	4039319C1	3	2
EXTENSION, CLIP	499479C1	2	2
STRAP, CABLE LOCK 250# 20"	3626607C1	3	2
EXTENSION CLIP (Must be acquired/made locally)	N/A	1	3

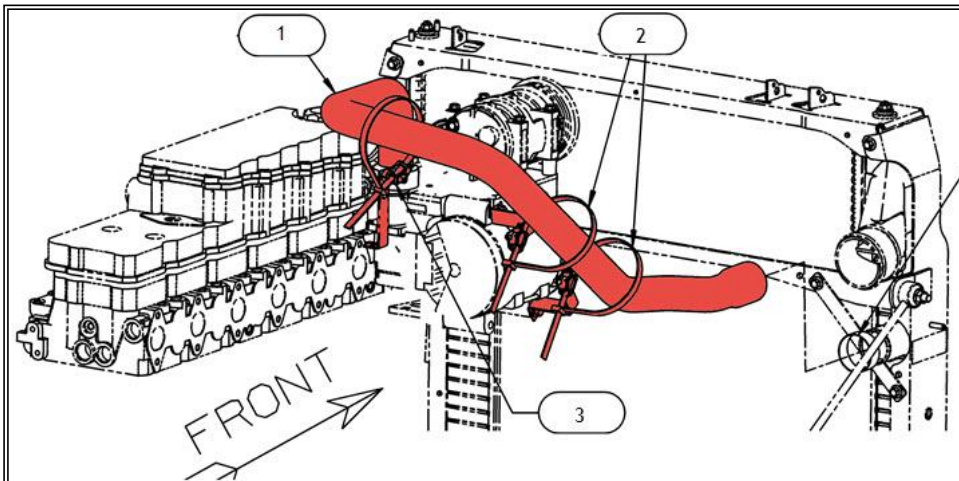


Figure 2: Upper Radiator Hose

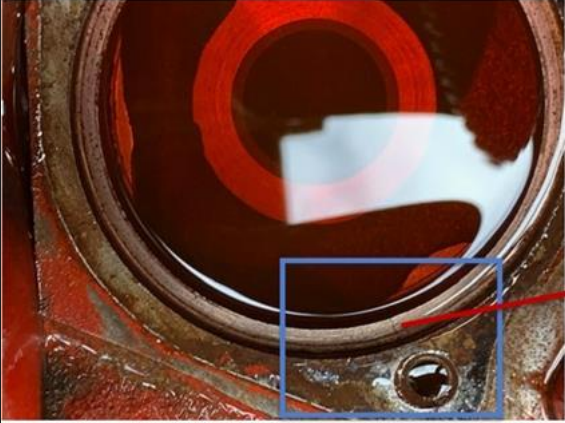
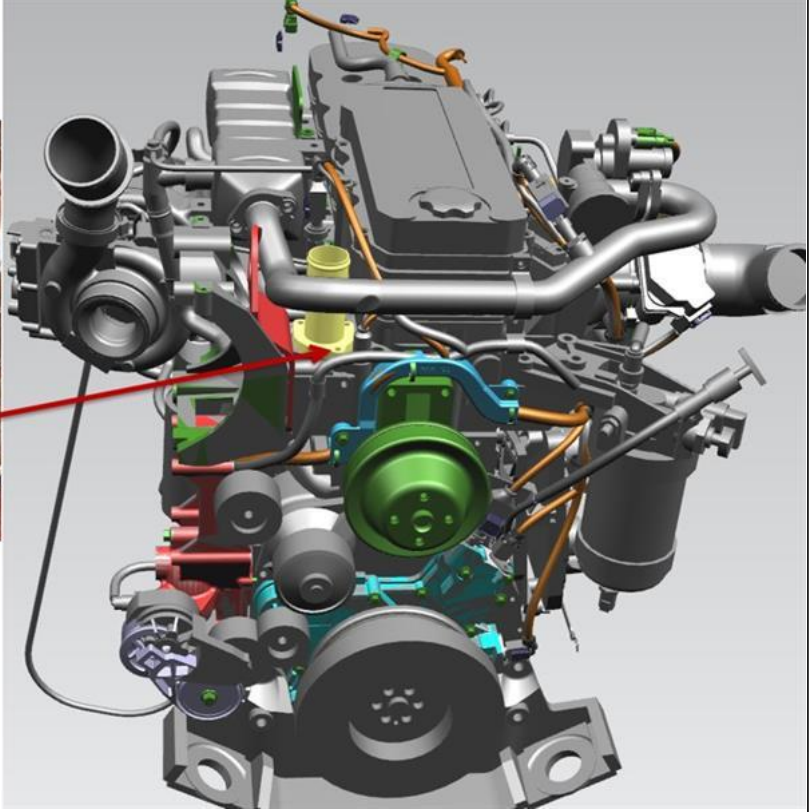
DIAGNOSTIC STEP(s)

WARNING:

To prevent unexpected movement of the vehicle and possible serious personal injury or death, park the vehicle on a flat, level surface, set the parking brake, turn the engine off, and chock the wheels to prevent the vehicle from moving in both directions.

CAUTION:

To prevent damage or contamination to A/C Machine, the use of a detection device is recommended before any A/C recovery attempt.

Step	Action	Dec
1	<p>DIAGNOSTIC:</p> <p>Does the vehicle have an aftermarket dual A/C system installed with a coolant leak in this area?</p>  	<p>Yes. Quic instr instr cylin cont</p> <p>No. diag artic</p>

Step	Action	Decision
2	<p>DIAGNOSTIC:</p> <p>Does the aftermarket A/C system use compressors that meet the dimensional requirements in figure #3?</p>	<p>Yes. Continue to Repair Instructions</p> <p>No. This article will not apply, please consult the A/C manufacturer</p>

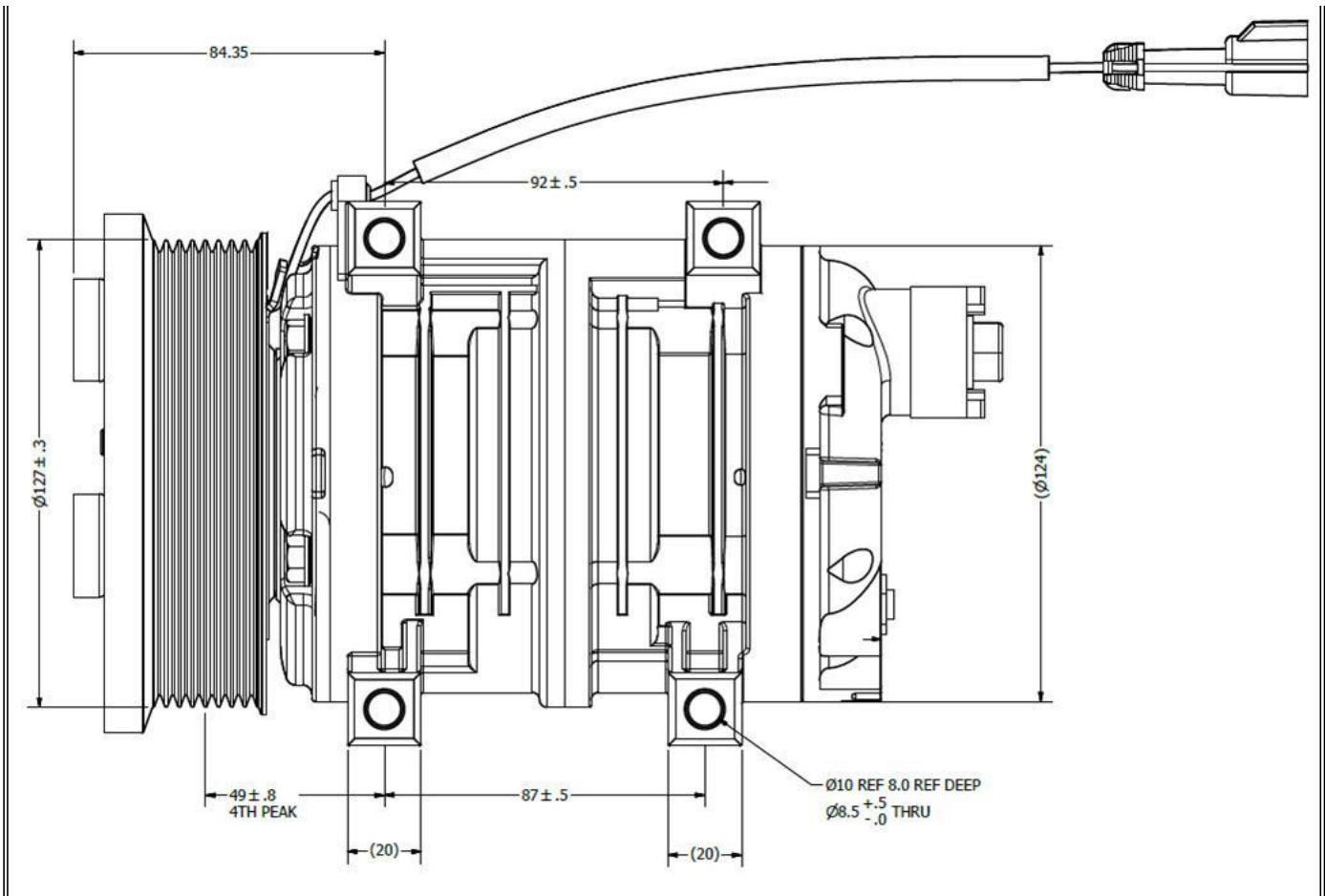


Figure 3: Compressor Dimensional Requirements

The repair can only be performed on A/Cs systems that meet the compressor dimensional requirements outlined in the image above.

REPAIR STEP(s)

NOTE:

Because this is an aftermarket system, this is not a warrantable repair. Any repairs are done at your own risk. Navistar and Cummins accept no responsibility for any failures that may occur.

NOTE:

It is recommended that you first contact the aftermarket A/C manufacturer for further assistance.

INSTALLATION PROCEDURE:



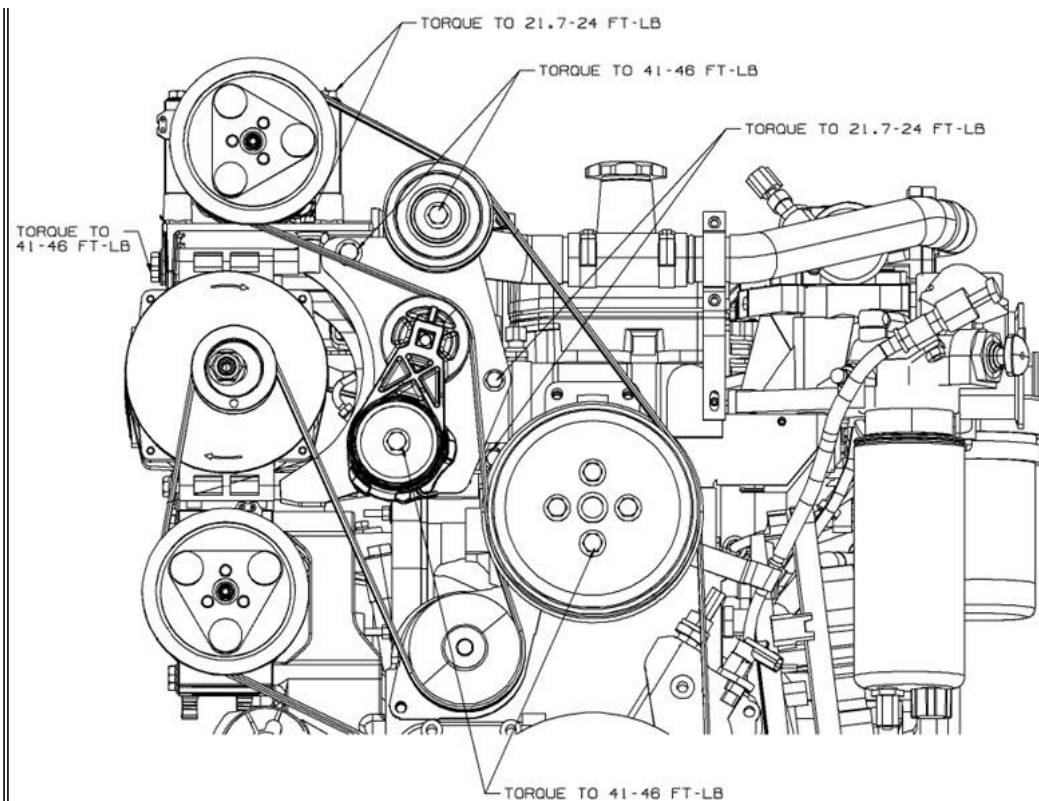


Figure 4: Torque Values

1. Measure the dimensions of the compressor to ensure it will work with the mounting pads and belt configurations.
2. Install the required parts to add the brackets and pulleys, refer to figure 4 for the torque values.
3. Install the updated upper radiator hose. Refer to figure #5 & 6 for standoff bracket installation recommendations.

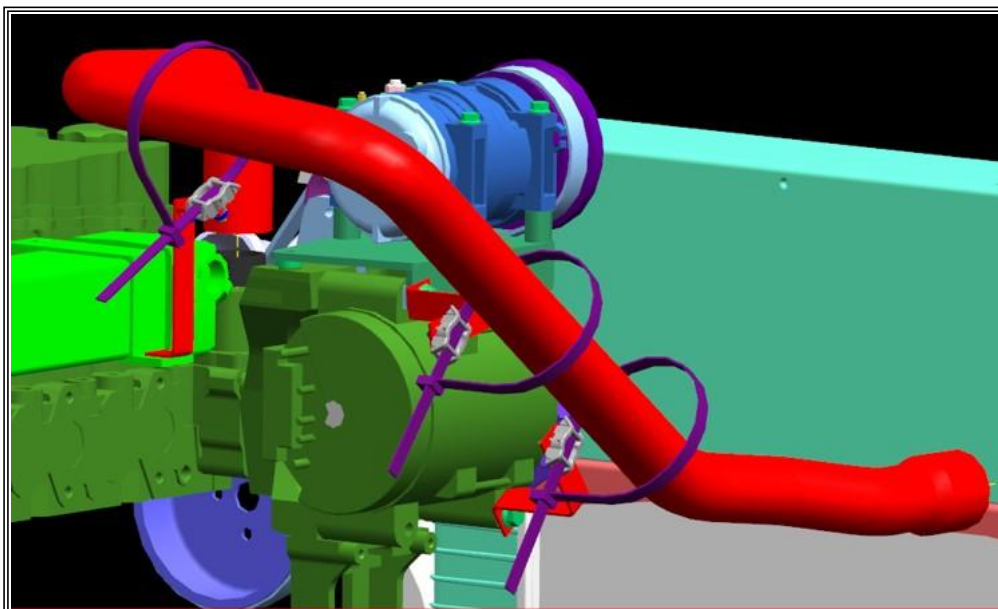


Figure 5: Upper Radiator Hose Installation

Note the location of the hose mounting brackets



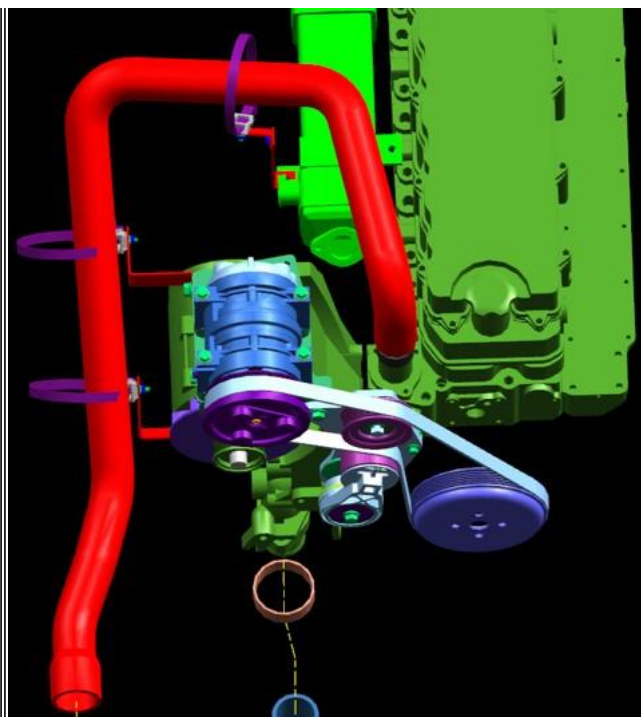


Figure 6: Upper Radiator Hose Installation

Note the location of the hose mounting brackets

WARRANTY INFORMATION

NOTE:

Because this is an aftermarket system, this is not a warrantable repair. Any repairs are done at your own risk. Navistar and Cummins accept no responsibility for any failures that may occur.

Standard Repair Time(s):

NOTE:

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OTHER RESOURCES

[Master Service Information Site](#)

[Cummins TSB170119 Charging System Alternator Bracket Malfunction](#)

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