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Other Languages: NONE **Author:** Frank Amstadt
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Coding Information

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Title: ISB CAC Port Plug**Applies To:** ISB Powered Durastar, CE Bus

CHANGE LOG

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

01/22/2018 - Updated Coding
01/02/2018 - Updated build date range
12/18/2017 - Updated parts table, added photos and steps
03/26/2017 - Updated parts information
02/27/2017 - Initial Article Release

DESCRIPTION

This document will guide the user through repairing complaints of air compressor failure, compressor line freeze conditions or air drier saturation on ISB powered units during operation in below freezing temperatures.

Will affect vehicles built 12/15/2015 - 05/31/2017

SYMPTOM(s)

DTC/Light	Description
N/A	N/A

Customer Observations or Concerns:

Low air pressure, slow to build air pressure, air compressor failure, compressor line freeze up and saturated air drier.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
N/A			

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Comments
HOSE, FLEXIBLE AIR, CAC 3 IN	3941298C1	1	
HOSE, FLEXIBLE AIR CAC COLD SIDE	3543544C1	1	
PIPE, AIR, CAC	3962282C2	1	
ELBOW HOSE	413729C1	1	
CLAMP HEAT EXCHANGER (TBOLT)	3557856C1	2	
CLAMP HEAT EXCHANGER (TBOLT)	3557857C1	2	
CHARGE AIR COOLER (CAC)	2613050C91	1	
Conduit	2644081R1	If Needed	50ft roll - cut and charge by length

DIAGNOSTIC STEP(s)

N/A

REPAIR STEP(s)

WARNING! To prevent property damage, personal injury, and / or death, park vehicle on a hard, flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

WARNING! To prevent property damage, personal injury, and / or death, if the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over.

WARNING! To prevent personal injury and / or death, always wear safe eye protection when performing vehicle maintenance.

WARNING! To prevent property damage, personal injury, and / or death, keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases.

WARNING! To prevent property damage, personal injury, and / or death, remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last.

REMOVAL PROCEDURE:

1. Bring vehicle into shop and park on a flat surface
2. Shift transmission into park or neutral, set parking brake, and install wheel chocks
3. Open the hood
4. Remove charge air cooler hose, cut tie straps if needed



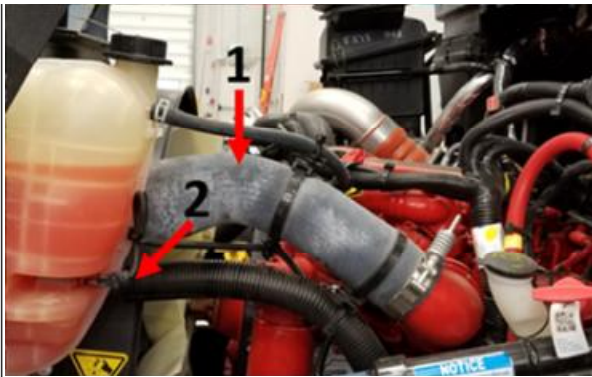


Figure 1: Left side of engine

Item 1: Charge air cooler hose

Item 2: Air compressor air hose inlet from CAC

5. Disconnect air compressor air inlet hose from CAC

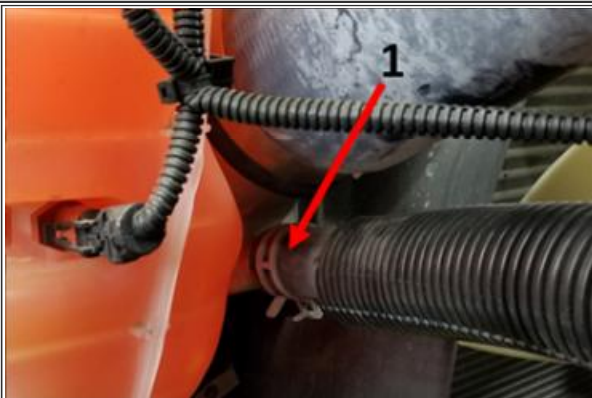


Figure 2: Air compressor air inlet hose connection to CAC

Item 1: Air compressor air inlet hose from CAC

6. Remove Charge Air Cooler (CAC) per the [Service Manual](#) for your vehicle

INSTALLATION PROCEDURE:

1. Install Charge Air Cooler (CAC) per the [Service Manual](#) for your vehicle

2. Install new fitting adapter onto new charge air piping



Figure 3: New charge air piping

Item 1: New CAC pipe

Item 2: New Fitting

3. Loosen Vband clamp at engine inlet elbow to allow CAC hose to fit properly

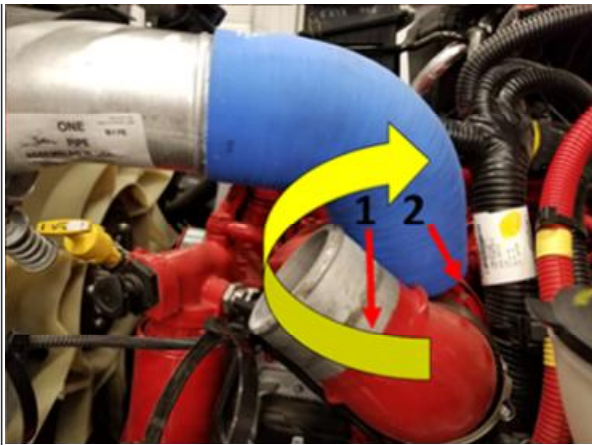


Figure 4: Engine inlet elbow to engine

Item 1: Inlet elbow to engine

Item 2: Vband clamp

4. Install charge air cooler piping using new clamps. Tighten all clamps to spec



Figure 5: New CAC piping installed

5. Cut air compressor inlet hose and loom to length and install onto the CAC pipe fitting with clamp



Figure 6: Air Compressor Inlet Hose

Item 1: Air compressor inlet hose cut and installed

6. Start engine and check for leaks

7. Close hood

8. Remove wheel chocks

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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