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Title: CV Coolant Fill Level

Applies To: CV

Change Log

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

01/03/2018 - Initial Article Release.

Description

CV vehicles will arrive at their destinations with some coolant in the lower chambers of the surge tank and with the upper chambers filled to the top of the tank (reference Figure 1 below).This is correct but different from other Navistar vehicles which arrive at their destinations with coolant levels between cold min and cold max.

- CV vehicles will appear to be “over-filled” with coolant when they leave the Navistar assembly facility.
- These vehicles typically have up to 1.4 L of air trapped in the engine after completing the on-line coolant evac/fill procedure.
- Coolant is added to the lower chambers of the surge tank and upper chambers are topped off above the fill line to the top of the bottle per the GM and Navistar recommended procedure.
- As the vehicles are used in the field, the air is gradually released from the engine and displaced by coolant from the surge tank.
- The recommended fill procedure ensures that the total vehicle coolant levels will remain high enough to avoid a low coolant condition as the trapped air is displaced.

Symptoms

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description
No Faults or Warning Lights	

Customer Observations or Concerns:

- Coolant is over-filled

Special Tools / Software

Tool Description	Tool Number	Comments	Instructions
Coolant Management Tool	KL5007NAV		
Fill Cap Adapter	09-040-02		

Service Parts Information

Kit Description	Part Number	Quantity Required	Notes
Not Applicable			

Diagnostic Steps

Step	Action	Decision
#	**DIAGNOSTIC:** Observe coolant level in the surge tank. **Is the coolant level at or above the cold max line?**	**Yes:** Coolant level is correct; no repair is required
		No: Fill the coolant reservoir as outlined in the CV Technician Manual 0001111853

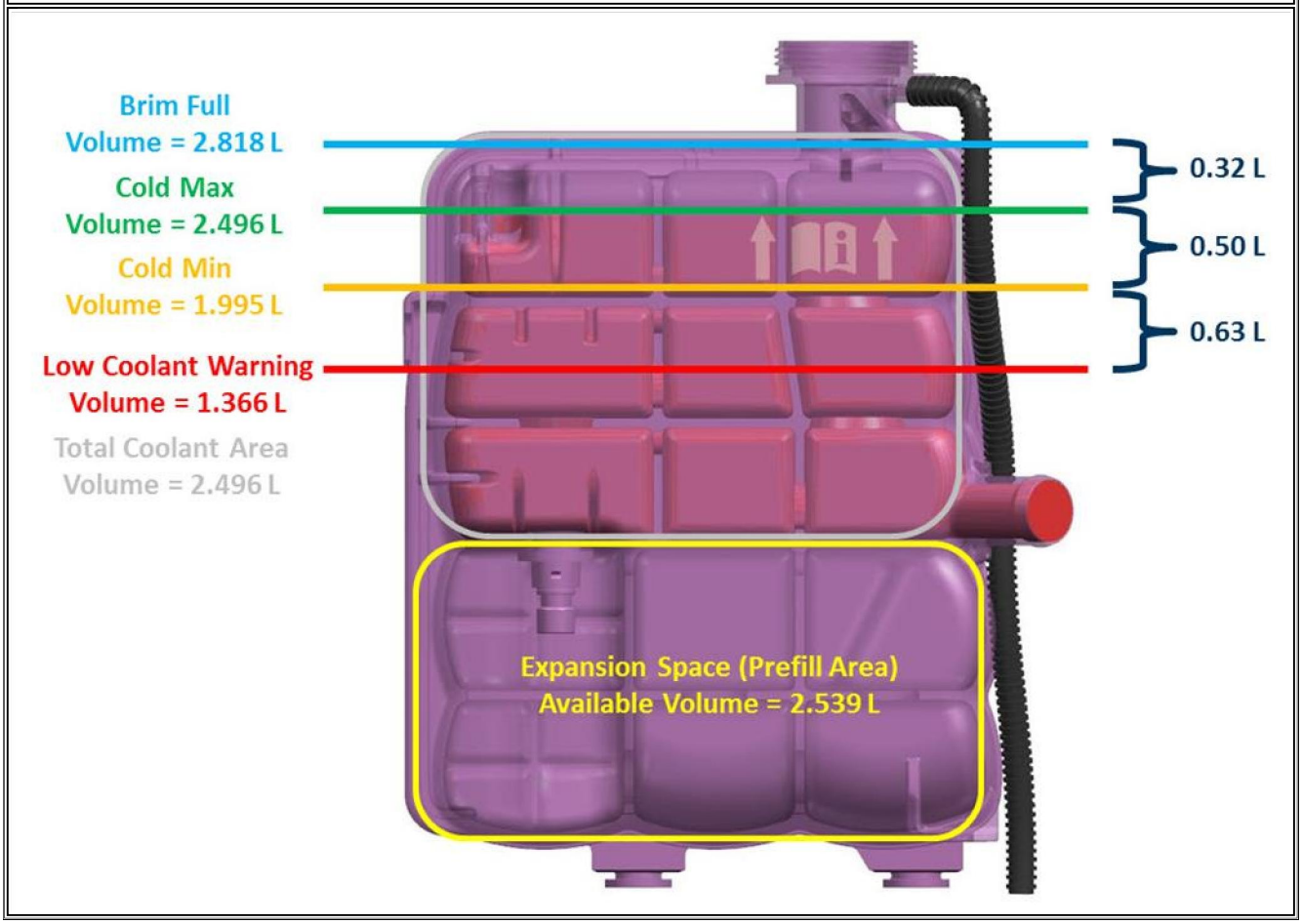
Figure 1 - Proper coolant level when leaving the plant

Proper fill with upper chamber full to top of tank (brim full) and residual coolant in lower chamber

Repair Step(s)

1. None required if coolant level in surge tank is at or above cold max. Upper surge tank chambers filled above cold max and as high as the top of the tank and coolant remaining in lower chambers are normal for these vehicles and coolant should not be removed from them.
2. Coolant levels below cold min require the coolant fill service procedure described in the CV Technician Manual 0001111853.
3. Coolant levels observed between cold min and cold max should be topped off to top of tank unless the vehicle is known to have completed multiple (three or more) thermal cycles with engine coolant temps exceeding 212°F (100°C) and then cooling to 70°F (21°C) during each cycle.

Figure 2 - Surge Tank Labeling with Volumes



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

International® CV™ Series Operation and Maintenance Manual

2018–2020 International® CV™ Technician Manual (Service and Diagnostic)

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