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Coding Information

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Title: Connecting an Auxiliary APU to the S13 Coolant System

Applies To: Vehicles equipped with S13 that are adding an APU.

Change Log

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

03/06/2025 - Initial Article Release.

Description

This article provides guidance on connecting an auxiliary APU to the S13's coolant system at approved locations. It includes the necessary parts for making these connections, as well as the flow paths for supply and return lines.

Users will need to supply their hoses and additional connections beyond what is discussed here. This guide focuses on the specific connection points on the S13 and provides the correct fitting and mounting points to facilitate the connection of an auxiliary APU to the S13. The chassis-mounted brackets and hosing will be customer-supplied and chassis-dependent, depending on options.

Special Tools / Software

Tool Description	Tool Number	Comments	Instructions
Coolant Management Tool	KL5007NAV	Used to drain & fill the cooling system	Link
Pressure regulator assembly	KL5006NAV		
Cooling System Adapter	09-040-03		
Coolant Drain Adapter	09-146-02		

Service Parts Information

Kit Description	Part Number	Quantity Required	Notes
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TUBE, COOLANT RETURN	106740N1	1	
CONNECTOR,HOSE, 5/8 INCH HOSE TO M22	4118263C1	1	
BOLT, HEXAGON FLANGE M8x20	102603N1	0*	*Re-use
BOLT, HEXAGON FLANGE M6x20	102620N1	1	
O-RING, 15.2x4 TUBE	104683N1	1	
CLAMP, HOSE	1514759C1	2	Optional

NOTE - See Fig 3 for parts diagram.

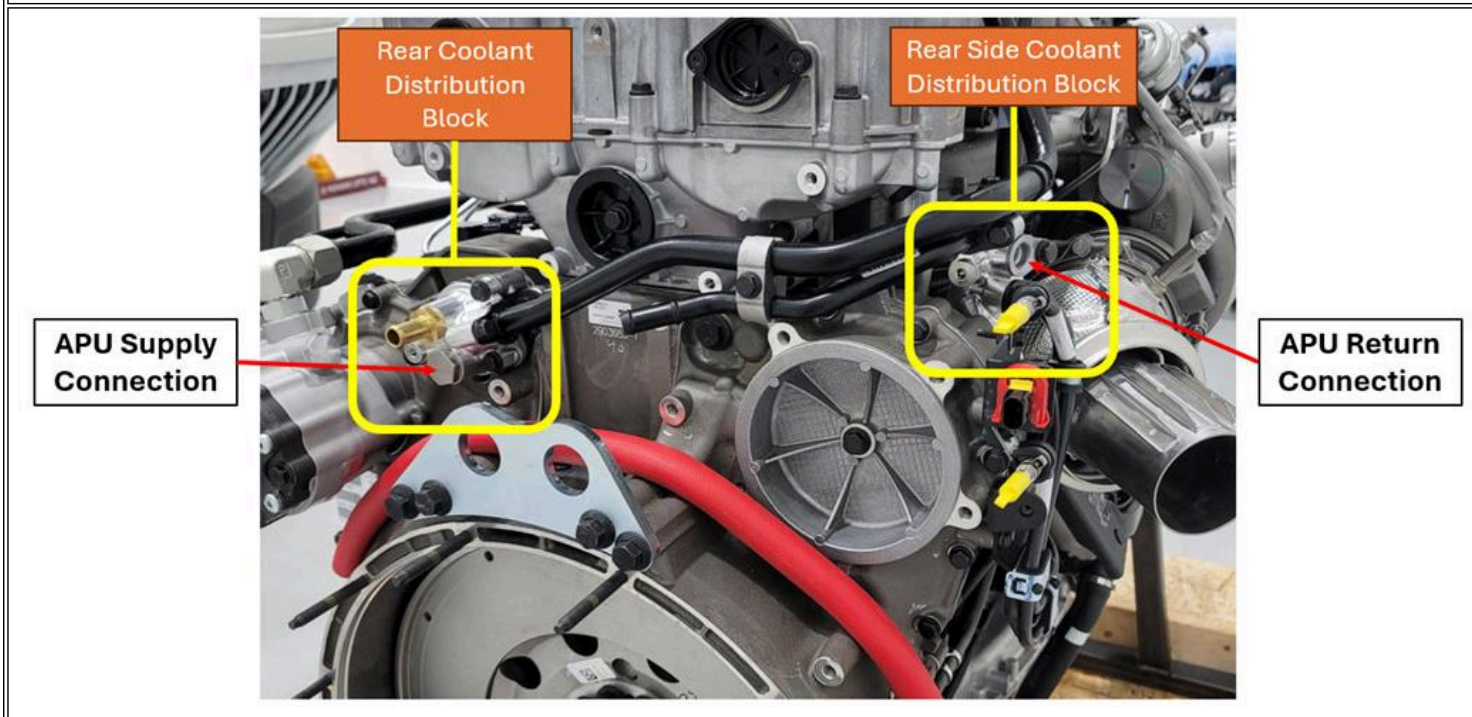
Installation Notes:

Order the specified parts to connect your auxiliary APU to the S13. The following steps will highlight the connection locations on the S13 engine, the coolant flow path, and the mounting location for the return tube. Refer to **Figure 1** for visual guidance. Use the indicated points on the engine to connect the parts, noting the supply and return lines. The 5/8 Hose to M22 adapter (PN - 4118263C1) will supply coolant from the rear distribution block, while the coolant tube return pipe (PN - 4118263C1) will connect to the right-side rear coolant distribution block for the return coolant.

Removal:

1. Prepare the coolant system for the removal and installation of coolant connection parts. Drain the cooling system according to the service manual linked [\[HERE\]](#).
2. Remove the M22 plug from the rear coolant distribution block (see Fig 1).
3. Remove the block-off plate from the rear side coolant distribution block, which is secured with an M8x20 flange bolt (see Fig 1).

Figure 1



Installation:

1. Install the 5/8 Hose to M22 adapter (PN - 4118263C1) to the rear coolant distribution block (see Fig 1).
2. Install a new O-ring (PN - 104683N1) onto the coolant return tube (PN - 106740N1) and insert the coolant return tube assembly into the rear side coolant distribution block. Re-use the M8x20 bolt.

3. Secure the coolant return tube assembly to the bracket using the M6x20 bolt (see Fig 2).

IMPORTANT: It is crucial to secure the hard line tube with a bolt to the bracket to prevent vibration damage in the future. Do not skip this step.

Figure 2

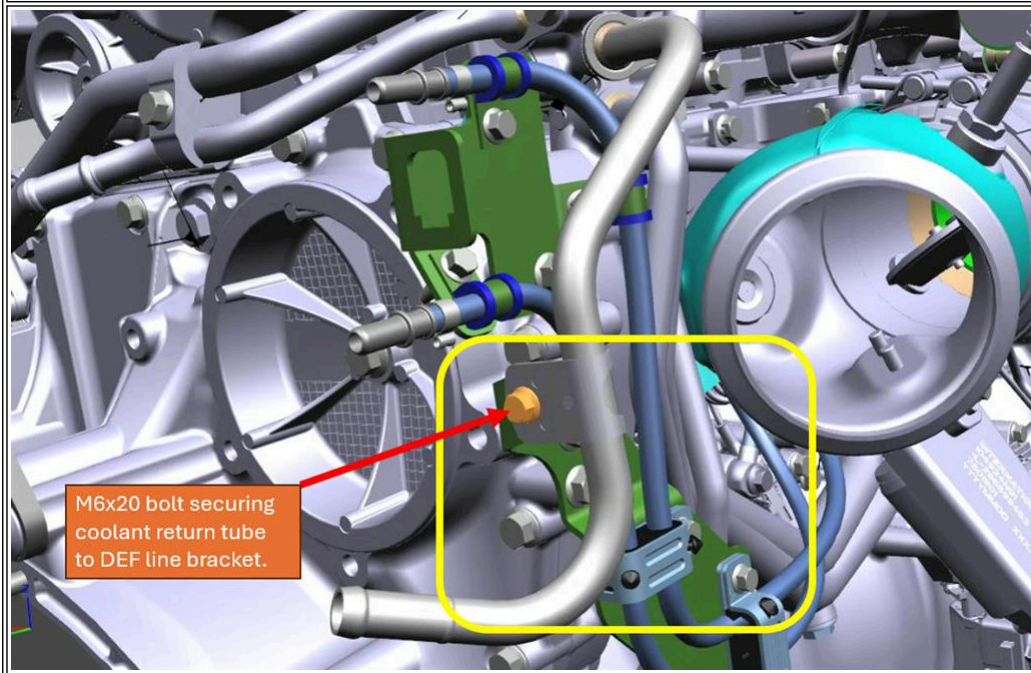
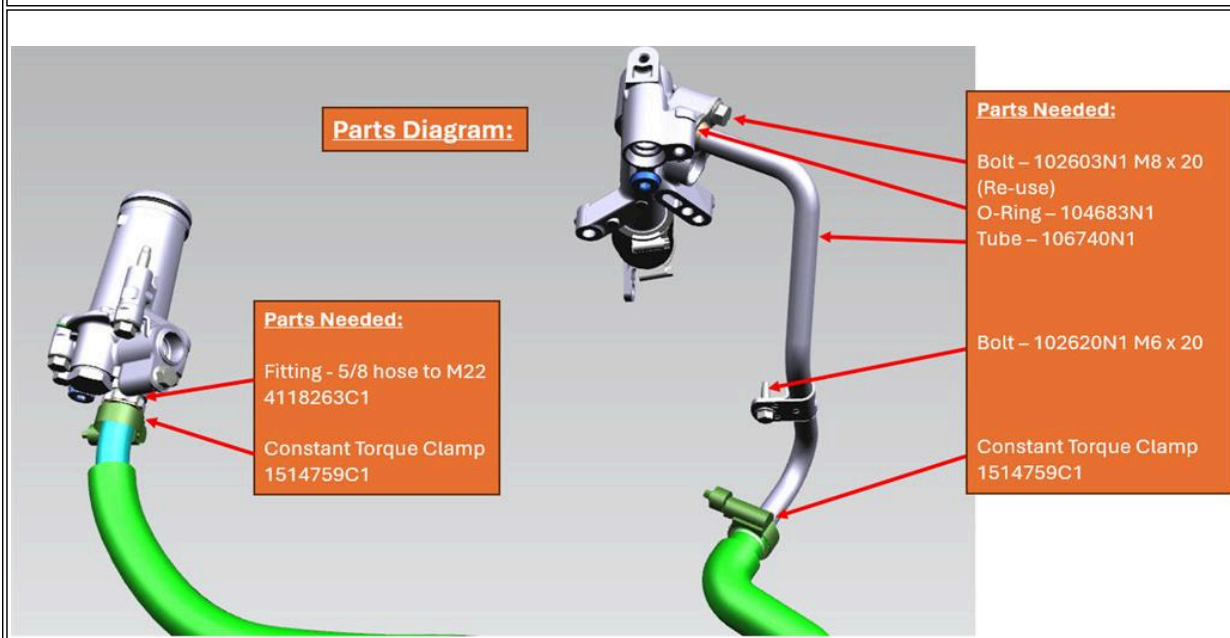
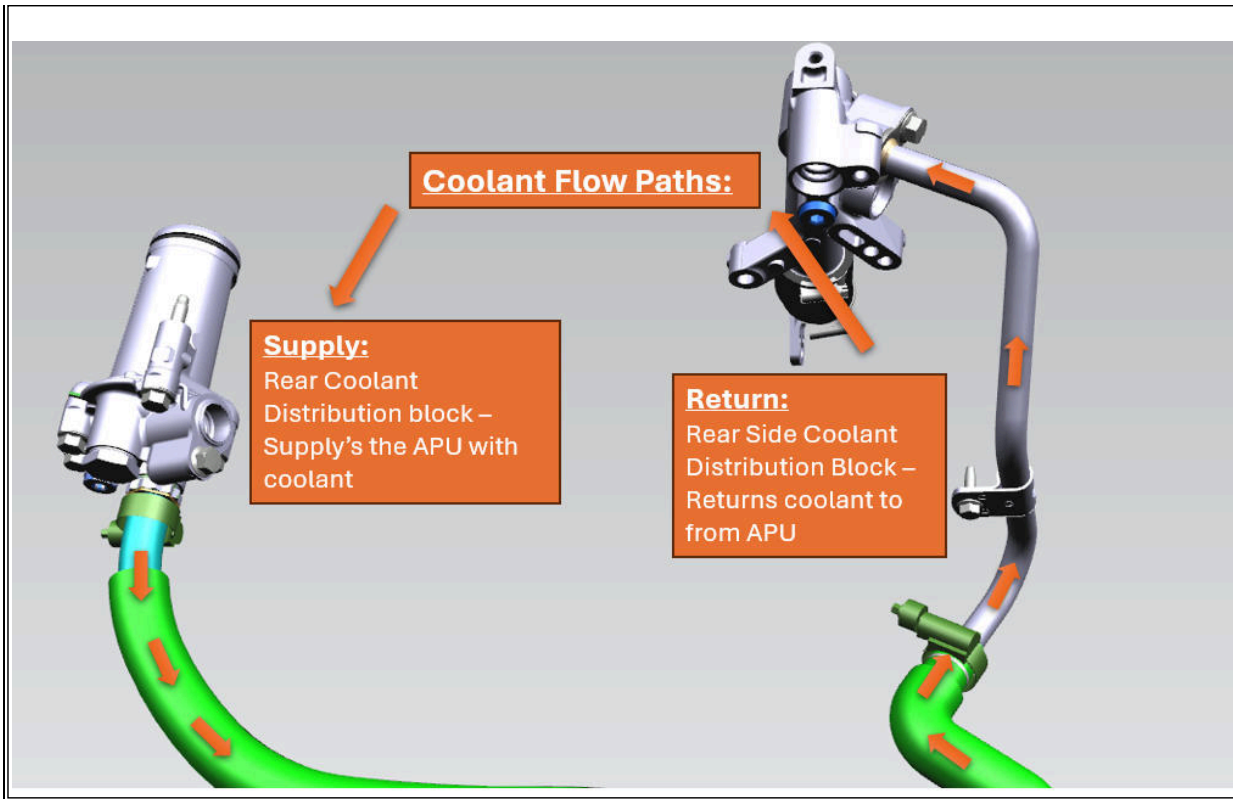


Figure 3



Additional Information on coolant flow paths:

Figure 4



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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