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NC60001

Subject: Adding HVAC Ducting and Vent for the Upper Bunk

**Models Affected: New Cascadia vehicles with a 72-inch raised roof
sleeper**

General Information

Our records indicate that you are the owner of certain New Cascadia vehicles with a raised roof sleeper cab and an upper bunk, built prior to the release of a factory-installed upper HVAC vent.

These instructions apply to approximately 30,000 Freightliner New Cascadia vehicles built in model years 2017, 2018, 2019, and 2020, and manufactured at the Cleveland or Saltillo manufacturing plants from April 18, 2016 to April 21, 2019 (estimated).

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Work Instructions

Subject: Adding HVAC Ducting and Vent for the Upper Bunk

Models Affected: New Cascadia vehicles with a 72-inch raised roof sleeper

Parts and Tools

See [Fig. 1](#) for a list of parts in this bulletin.

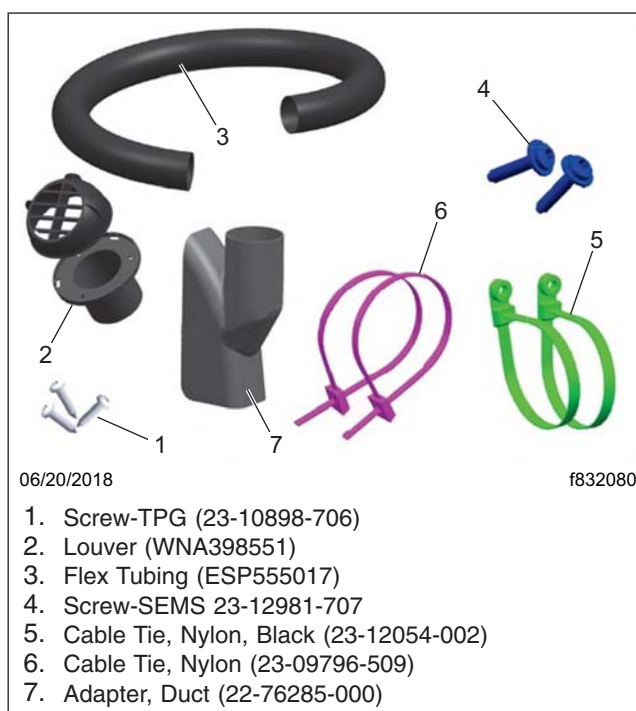


Fig. 1, Parts Required

The following tools are required for this procedure:

- Industrial Adhesive
- Sawsall, or equivalent
- T20 and T25 drill bit
- 2-9/16 inch (65 mm) Hole Saw
- 3 inch (76 mm) Hole Saw

Installation Instructions

1. Park the vehicle, shut down the engine, and apply the parking brakes. Chock the tires.
2. Remove the HVAC cabinet ducting by removing the screws at the locations shown. See [Fig. 2](#).

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Fig. 2, HVAC Cabinet Ducting

3. With the ducting removed, slide on the adapter (22-76285-000) and align the bottom edge to the beginning of the mounting tab. See [Fig. 3](#).

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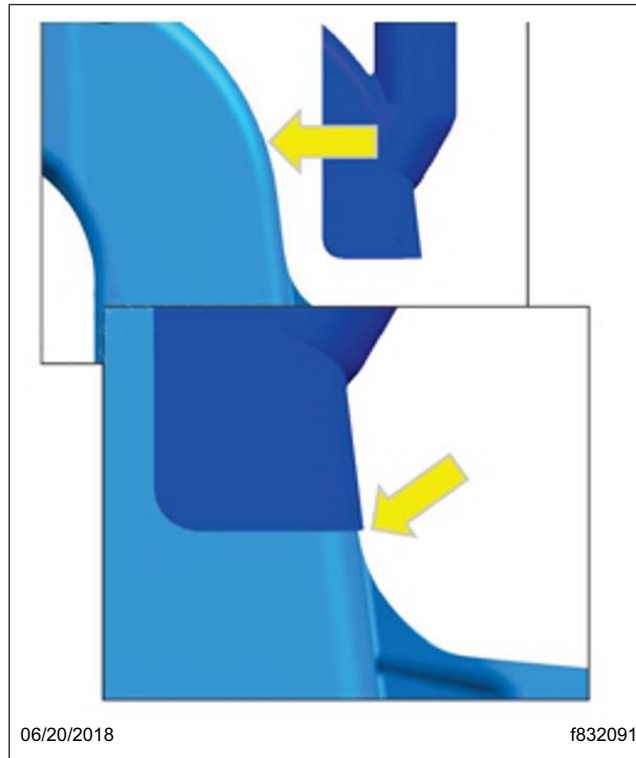


Fig. 3, Aligning the Adapter to the Beginning of the Mounting Tab

4. Attach the adapter to the ducting. See [Fig. 4](#) .
 - 4.1 Position the adapter on the ducting, and mark the outside edge.
 - 4.2 Measure 1.18 inches (30 mm) from the side and bottom of the mark, then cut an opening using a sawsall, or equivalent.
 - 4.3 Apply industrial strength adhesive to the adapter, then attach the adapter to the ducting. Refer to the adhesive manufacturer's recommendation for curing time.

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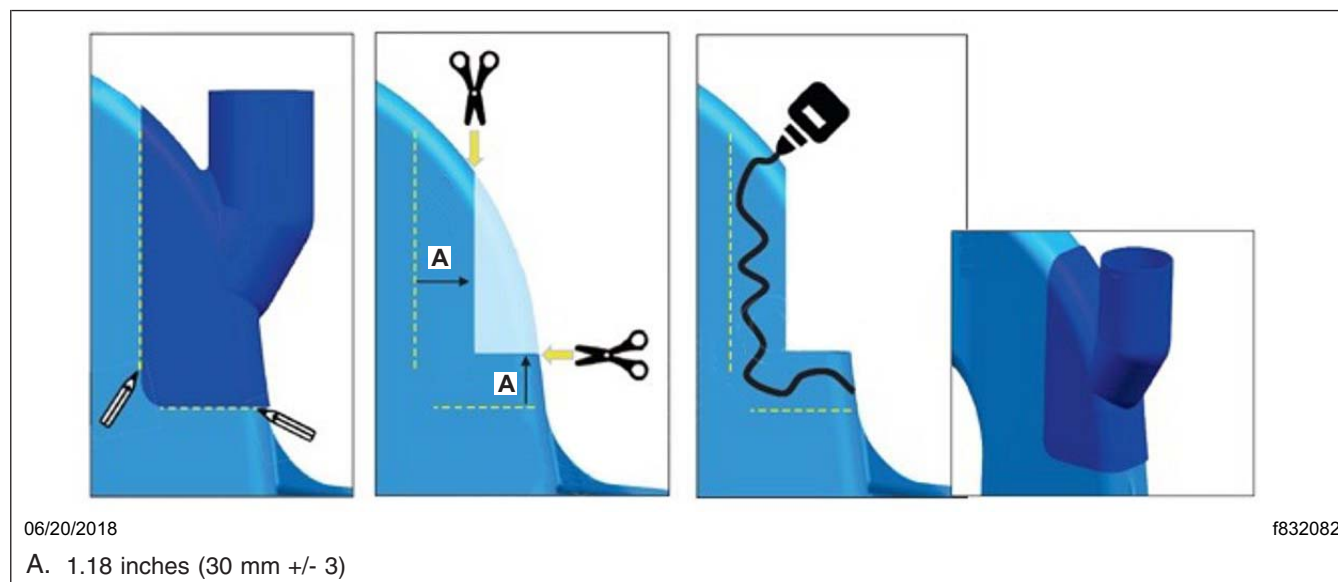


Fig. 4, Attaching the Adapter

5. Locate the area shown in red for the flex ducting pass-through hole. See [Fig. 5](#).

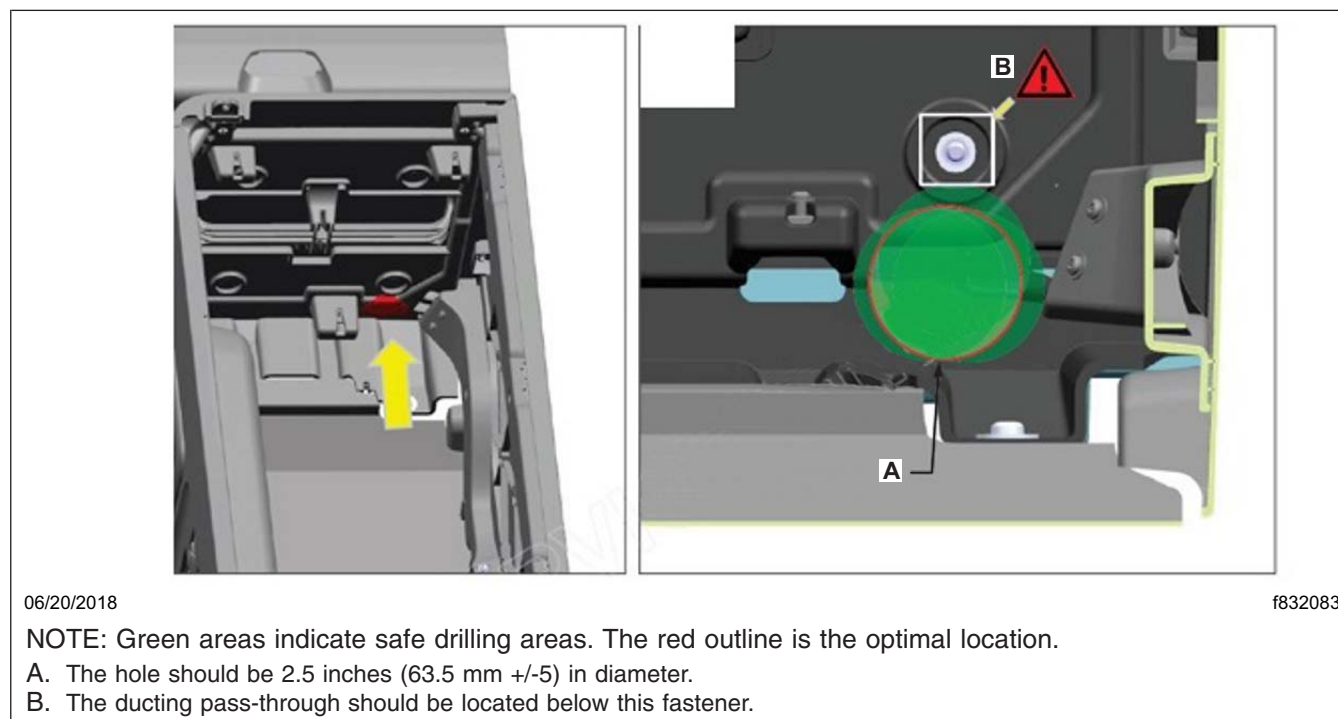


Fig. 5, Locating the Flex Ducting Pass-Through Hole

6. Backdrill up to the cabinet above using a 2-9/16 hole saw. See [Fig. 6](#).

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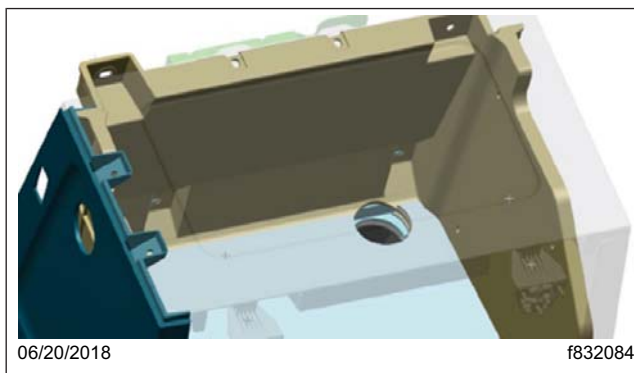
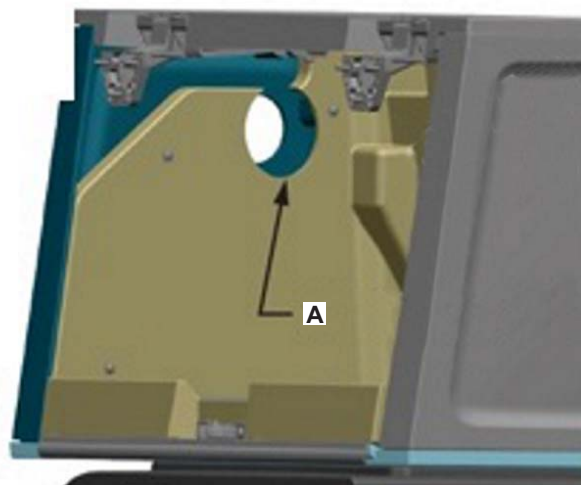


Fig. 6, Backdrilled Hole Location

IMPORTANT: The inner panel may require a larger 3 inch (76 mm) to 3.5 inch (89 mm) hole saw to allow connection of the flex duct to the louver. See [Fig. 7](#) .

7. Measure and locate the mounting hole for the louver (Item B), then drill through the outside panel of the upper cabinet using a 2-9/16 hole saw. See [Fig. 8](#) .



A. The inner panel may require larger a 3 inch (76 mm) to 3.5 inch (89 mm) hole saw.

Fig. 7, Drilling the Hole for the Louver

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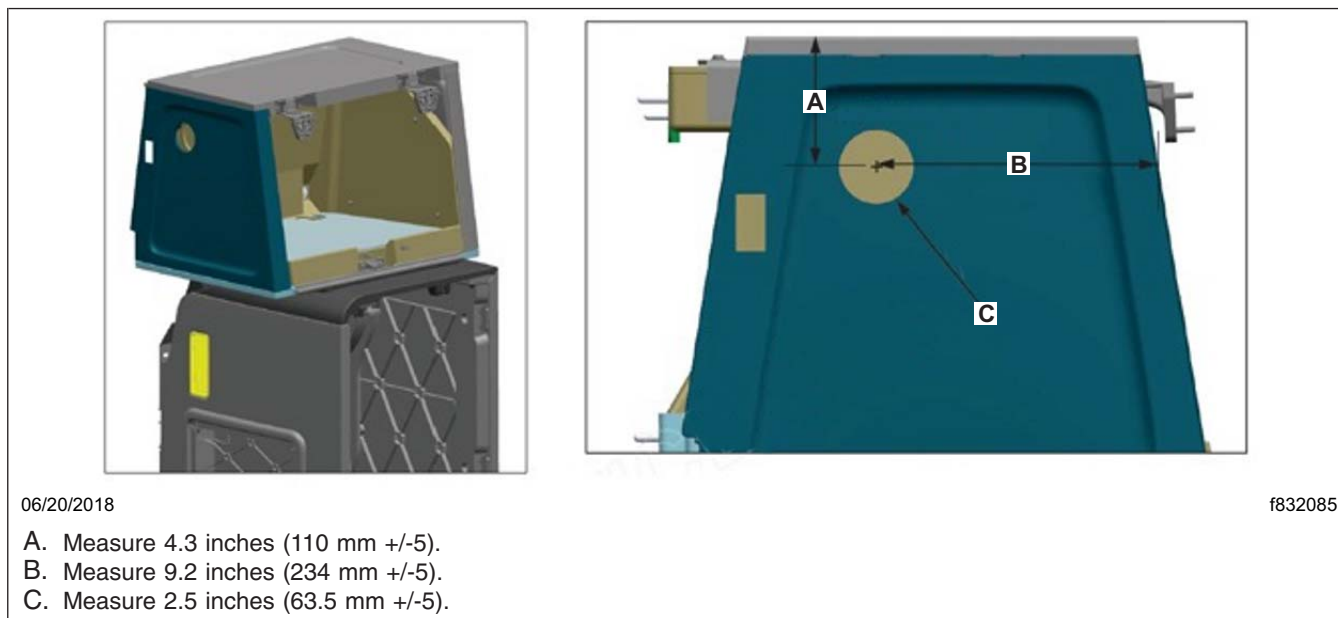


Fig. 8, Drilling the Hole for the Louver

8. Install the HVAC cabinet ducting with the attached adapter, using the 4 mounting screws. See [Fig. 9](#).



Fig. 9, Installing the Cabinet Ducting

9. Install the flex ducting using cable ties. See [Fig. 10](#). Trim the flex ducting, as required.

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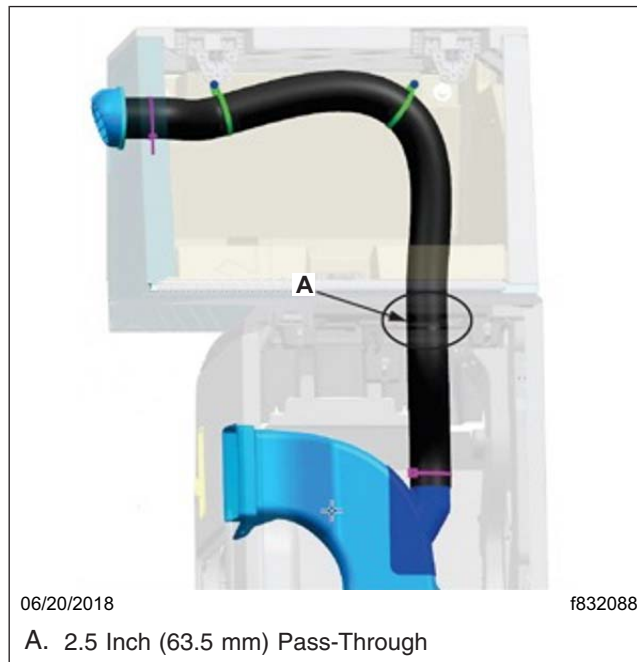


Fig. 10, Installing the Flex Ducting

10. Install the louver using 3 screws (23-10898-706).

See [Fig. 11](#), and [Fig. 12](#) for final installation.



Fig. 11, Louver and Flex Tubing

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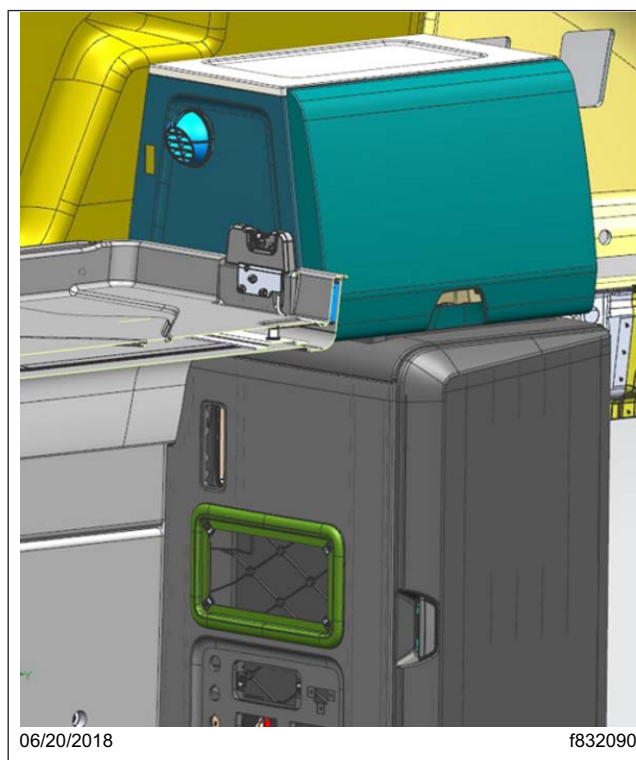


Fig. 12, Cabinet Assembly, Installed

Warranty

This procedure is warrantable only if the described condition exists and the repair is performed within the applicable base or extended coverage warranty period. If a failure is not found, this procedure is considered preventive and warranty does not apply.

Normal warranty applies. See [Table 1](#) for OWL VMRS codes and labor allowance information. Enter this service bulletin number in the *Service Bulletin #* field.

OWL VMRS Codes and Labor Allowance					
Primary Failed Part	Component Code	Cause Code	SRT Code	Description	Time: Hours
22-73666-000	001-004-005	28	688-5000A	DUCT, SLEEPER AUX, INSTALL	2.0

Table 1, OWL VMRS Codes and Labor Allowance