



Volvo 700 Series

Blizzard Turbo Remote Auxiliary Air Conditioning And Air Distribution Systems

Supplemental Installation Guidelines For Volvo 700 Series Truck Models

Dometic Truck
Rev. 20170601
L-3884 English
P/N 339136

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Introduction

This document contains supplemental guidelines for installing the QT Series control and air distribution for the Dometic auxiliary air conditioning system on the Volvo 700 series. It is intended to be used in conjunction with the standard installation manual, which covers all other aspects of installing, testing and operating the system.

Do not attempt to install any components until you read and understand the instruction in both manuals.

Components

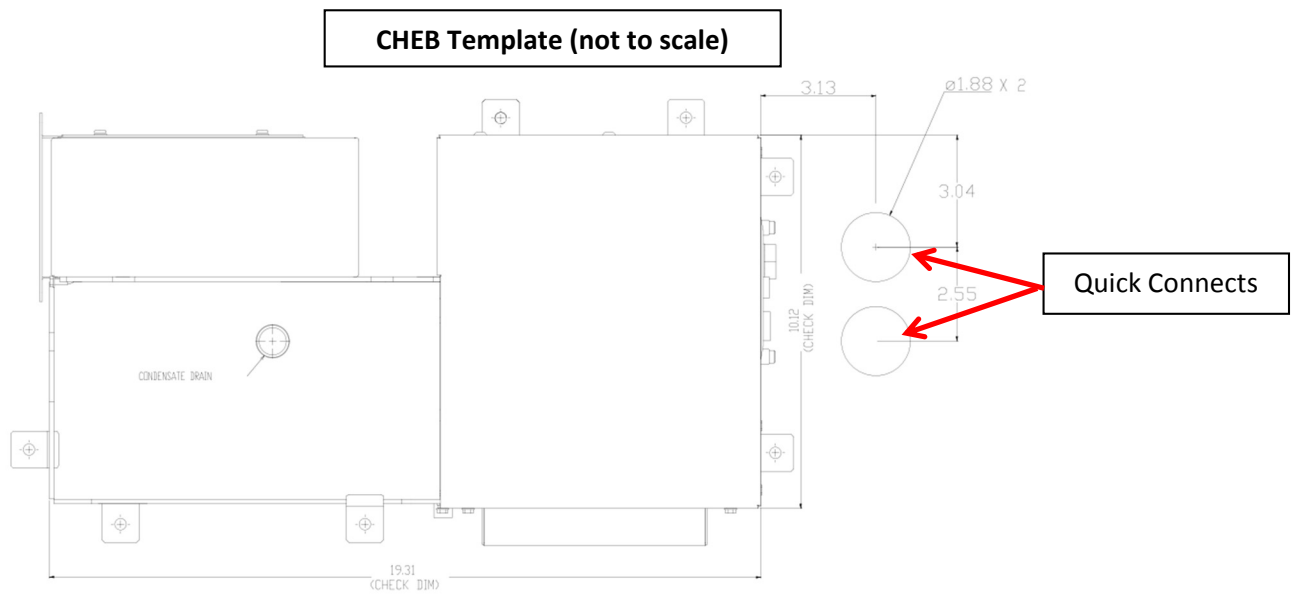
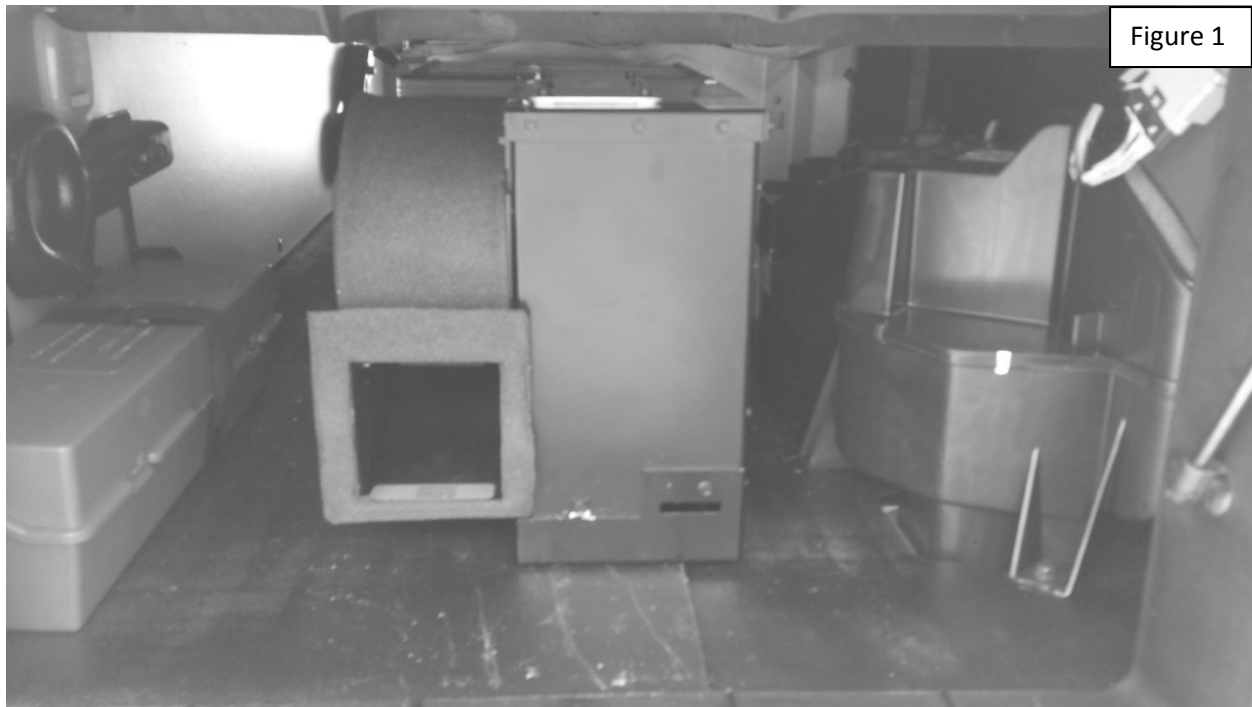
<u>Volvo 700 Series Factory Kit</u>		
Part Number	Description	Qty
710100402	Kit ACCG7/ECGQ7-T TK8'	1
710035074	Cover QC Truck Condensers	1
229801609	2 4" Outlet Plenum	1
710035137	P-Tube Assembly	1
226600010	Duct Flex 4"	25'
339697	Grille Round 4" Black No Damper	1
335972	RA Grille 12x12 Black Steel	1
4151100	Hose Clamp 4" Duct	4
4152703	Rubber Line Set Grommets	2

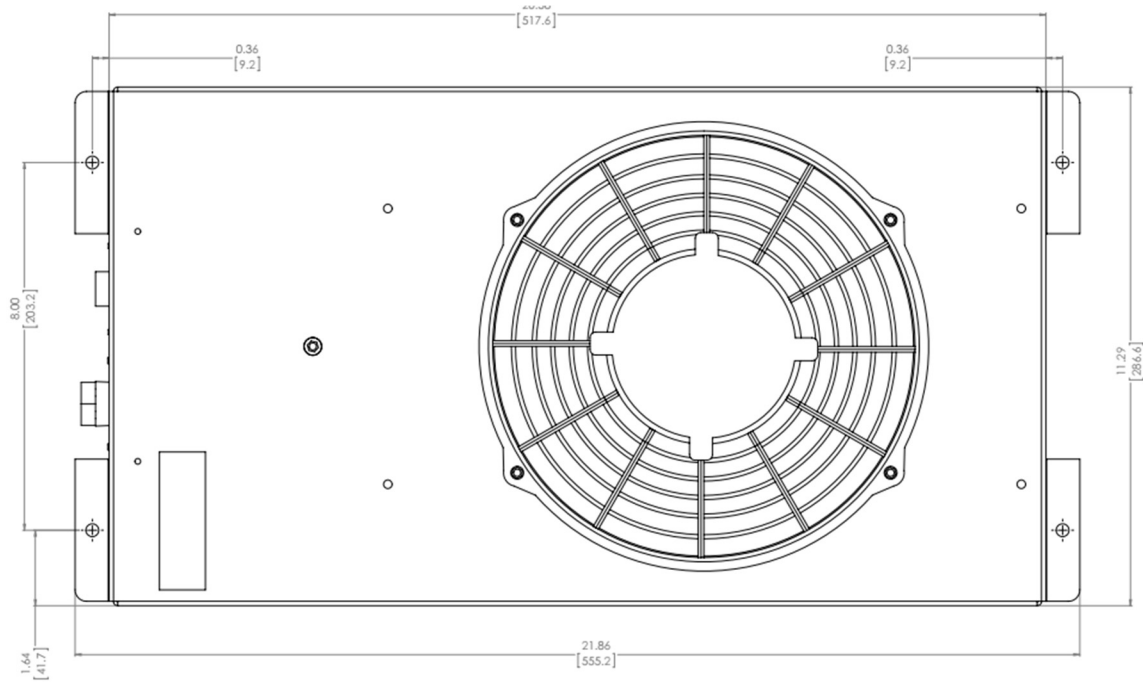
NOTE: Some parts installed as part of power system are not supplied by Dometic, for example, alternator, wiring, etc. Please contact Dometic for assistance in necessary parts that do not come with the Dometic kit.

Locating the Components

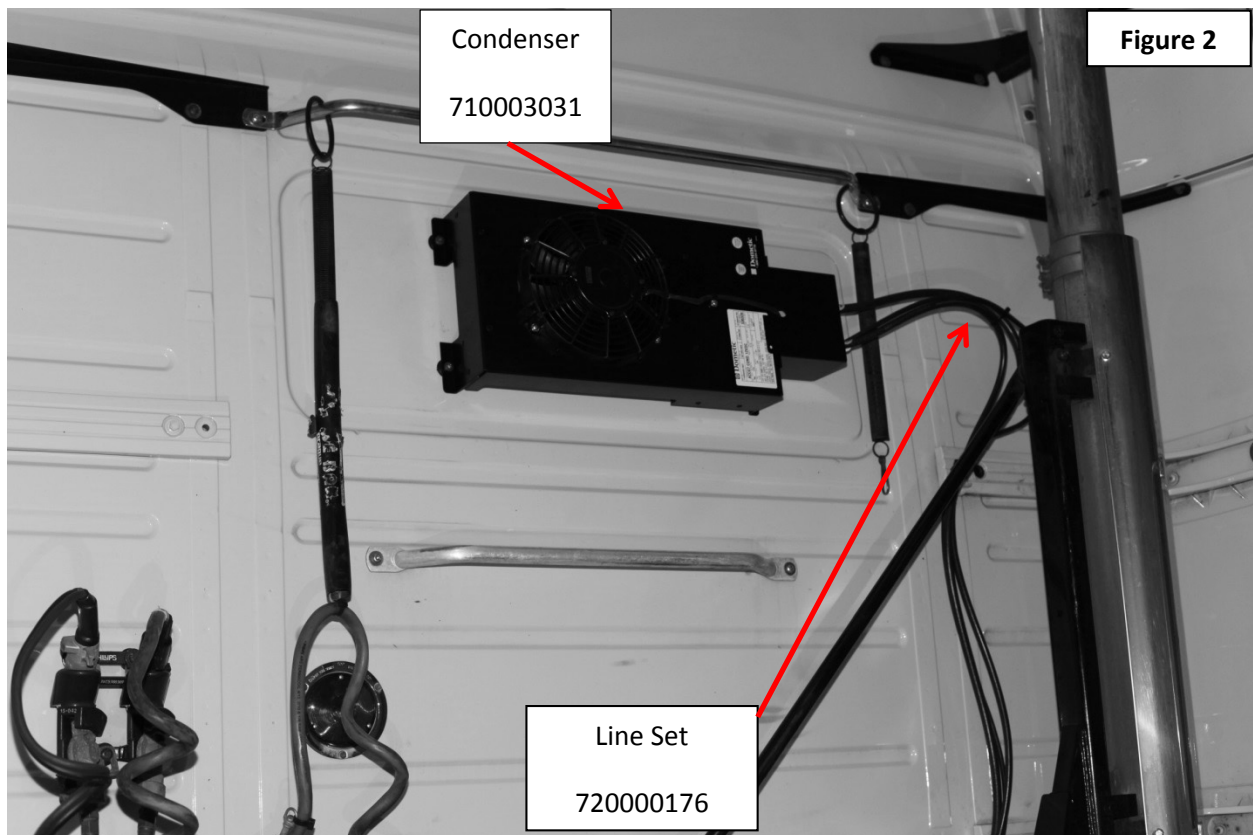
The Dometic remote auxiliary air conditioning system consists of two basic components: An outside condensing unit which contains the condenser and exhaust fan, and an inside unit, which contains the compressor, heater, evaporator, and blower (CHEB). The two units are connected by pre-charged refrigerant lines with quick-connect fittings.

For the Volvo 700 series, we recommend placing the CHEB unit in the passenger side luggage compartment with the blower discharge in a horizontal mounted position alongside the Volvo factory air conditioning unit (SEE FIGURE 1), and mounting the condensing unit horizontally on the back of the truck (FIGURE 2). Refer to the primary installation manual for important guidelines not included here.





ACCG7 MOUNTING FOOTPRINT



Use the template to position the CHEB unit correctly. The edge of the unit line with the notations for the quick connections should be nearest the bunk wall. Mark for the two quick connect holes off the edge of the unit using the construction lines. Follow the step-by-step procedures in the installation manual for mounting unit and drilling holes.

Dometic recommends you install the return air grille under the bunk side panel on the passenger side (SEE FIGURE 3). This will make it less likely for the air flow to be blocked by something in the luggage compartment.

The supply air will be routed through the Volvo ductwork, and will also be ducted to one additional 4" discharge grille mounted in passenger side kick wall panel magazine rack.

IMPORTANT! Refer to the Dometic installation manual for details on installing and connecting the CHEB and condensing unit.

Installing the Control

For the Volvo 700 series, we recommend mounting the control/display panel on the wall above the driver's side cabinet. Remove the truck's HVAC panel to access the area to make it easier to route the cabling to the CHEB. The CXP cable will run down inside the wall and across the luggage compartment.

IMPORTANT! Refer to the Dometic Installation manual for details on routing and connecting cables from the control/display panel to the CHEB.

Installing the Return Air Vent

The return air vent will be mounted under the bunk in the side panel on the passenger side. It will just fit between the panel supports on the backside kick panel.

Locate the supports and cutout for the grille. Use a 4" hole saw and cut four holes to allow enough air flow for the return air of the CHEB. (SEE FIGURE 3)



Remember, good air flow from the return air grille to the CHEB evaporator coil is critical for your air conditioning system to perform correctly. Do not allow anything to block this air flow.

Installing Plenum to CHEB for Supply Air

Ensure that the blower is rotated in a horizontal discharge position. Use 1/4" screws on mounting plate to rotate blower if necessary.

Attach plenum so that it fits flush with the blower outlet, and that inner lips mate to blower output. Slide mounting lip so that it attaches the blower to the plenum, and use supplied rivet in mounting hole for secure fit (SEE FIGURE 4 for proper orientation).



Figure 4

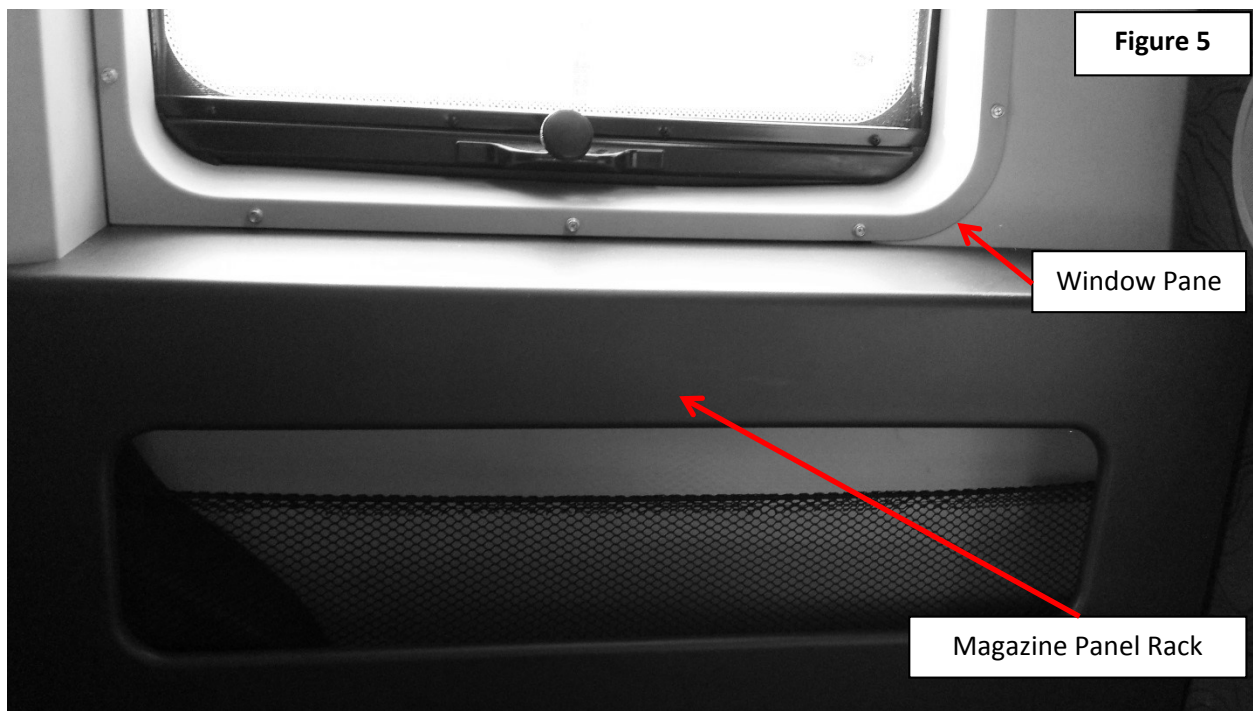
Installing the Supply Air Distribution

For Volvo 700 series installation, you will use the factory-installed Volvo ductwork for supply air distribution. In addition, you will add one 4" discharge grille.

Connecting to the Volvo Ductwork

First, locate passenger side magazine storage compartment. The Volvo sleeper rear duct transition piece is located behind it.

There will be three hex screws on the bottom flange. Remove these screws and remove Phillips head screws from window pane trim. Once done, panels and magazine rack can be removed (SEE FIGURE 5).



Once the rack and window pane have been removed from sleeper, you gain access to the duct transition piece supplied. There will be surrounding hex screws. Remove the screws and removal of the transition piece can be done from underneath the storage compartment (SEE FIGURE 6).



When the transition is removed from sleeper, gain access to back side of plenum. You will need to cut one 4" hole to install the 4" round grille (SEE FIGURE 7)



Locate the supplied 4" round black supply grille. Use two wire ties to keep the vanes from circulating inside the grille.

Place the grille in the transition piece with the vanes directing the airflow up the transition to supply the existing grilles in the cab. Use four self-tapping screws and weather stripping to prevent any air leaks.

Once grille is installed in transition, CAREFULLY place the Volvo transition piece back in place inside the truck and remount the hex screws.

Installing the Remaining 4" Duct and Supply Grille

Now you will install your second 4" supply grille in the magazine rack that was removed from the truck. Cut one 4" hole in the right side of the rack and install grille (SEE FIGURE 8).



Figure 8

Use a 4-1/2 " hole saw to cut through the right side of the bunk where the magazine rack was placed. This will allow you to install the duct later.



Figure 9

Example of 2 of Volvo Sleeper Grilles

Verify air is coming out of both grilles (SEE FIGURE 9).

Ignition Interlock

Proper installation for the ignition interlock is critical to ensure Dometic HVAC is not running while batteries should be charging.

On the Volvo chassis, you will utilize relay position B15. You will also need to add a 5-amp fuse to fuse position 61.

To gain access to fuse panel, pull out the cup holder in the dash, and loosen two screws (SEE FIGURE 10).

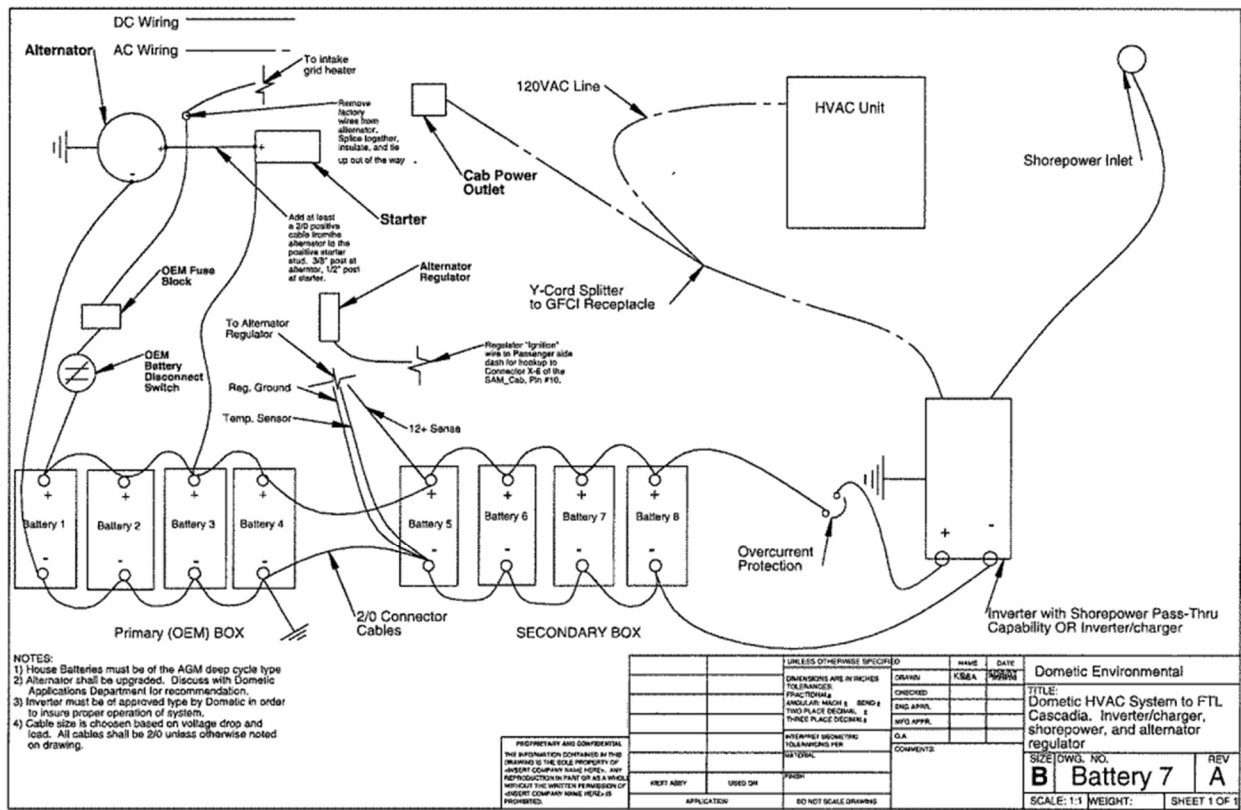


Once screws are loosened, top panel will snap out of place with force to reveal fuse and relay panel. Wire the ignition interlock into relay position B15 and add 5-amp fuse to position 61. SEE FIGURE 11 for fuse panel.



General Power Considerations

Battery Option With Inverter Charger



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