



# **Freightliner Cascadia**

## **Blizzard Turbo Remote Auxiliary Air Conditioning And Air Distribution Systems**

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### **Supplemental Installation Guidelines For Freightliner Cascadia Chassis**

Dometic Truck  
Rev. 20170601  
L-3906 English  
P/N 339137

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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 Freightliner Cascadia chassis. 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.

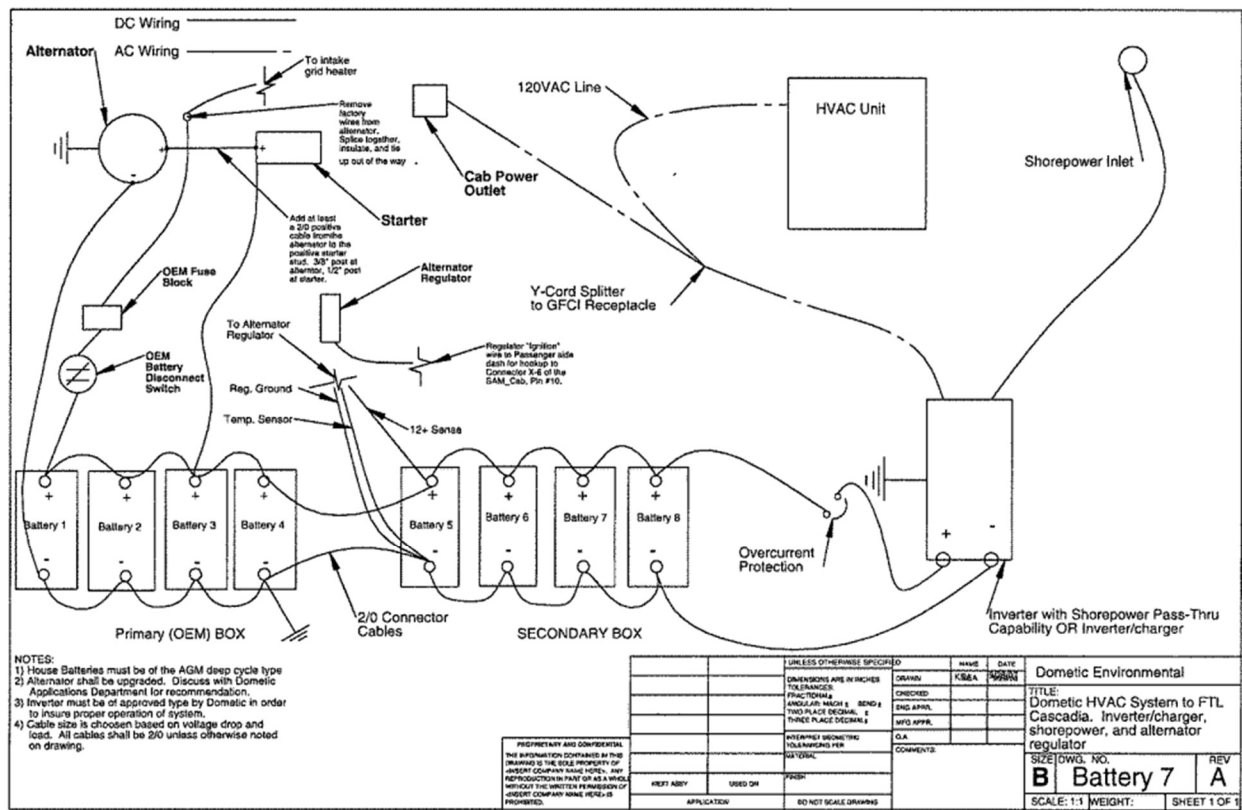
Components

Freightliner Cascadia Factory Kit

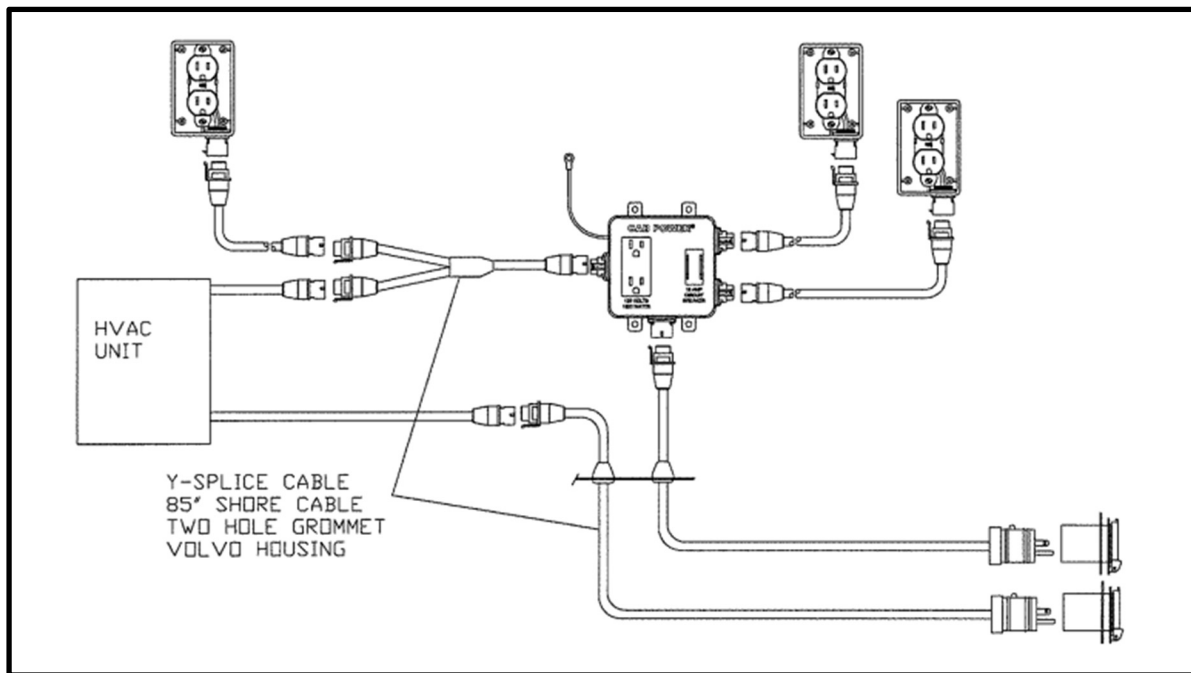
| Part Number | Description                  | Qty |
|-------------|------------------------------|-----|
| 710100401   | Kit ACCG7/ECGQ7-T TK6'       | 1   |
| 710035502   | Inverter/Charger 1800W 40A   | 1   |
| 710035534   | Kit Duct Tower - Two Stacked | 1   |

Power Considerations

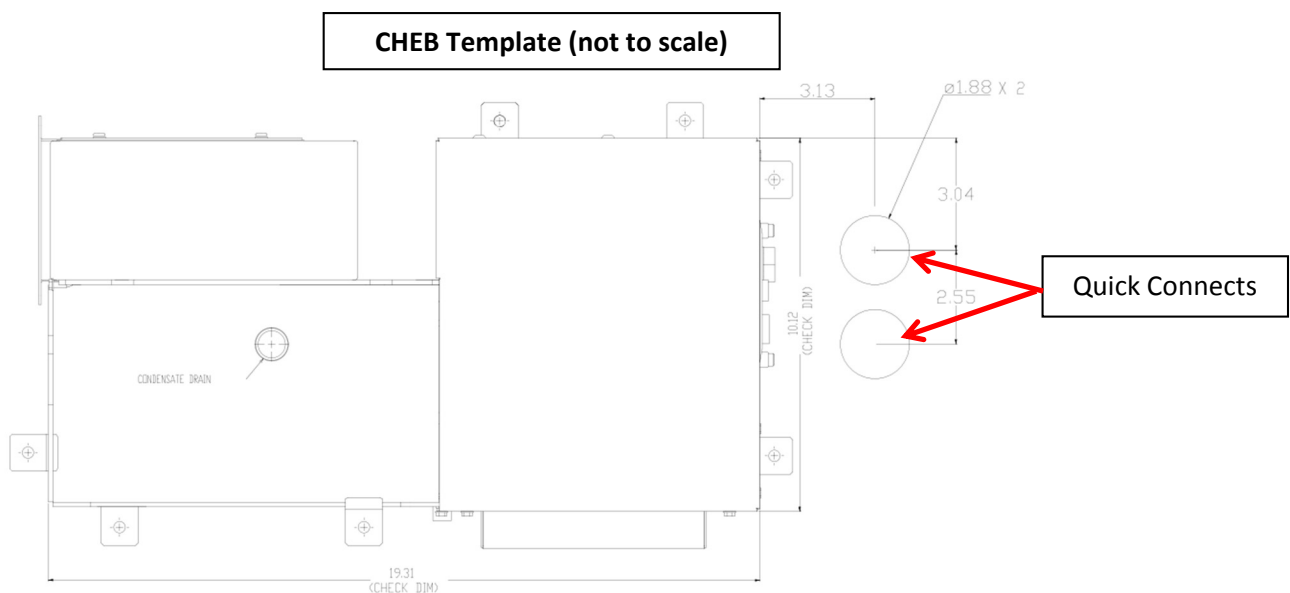
Battery Option With Inverter Charger

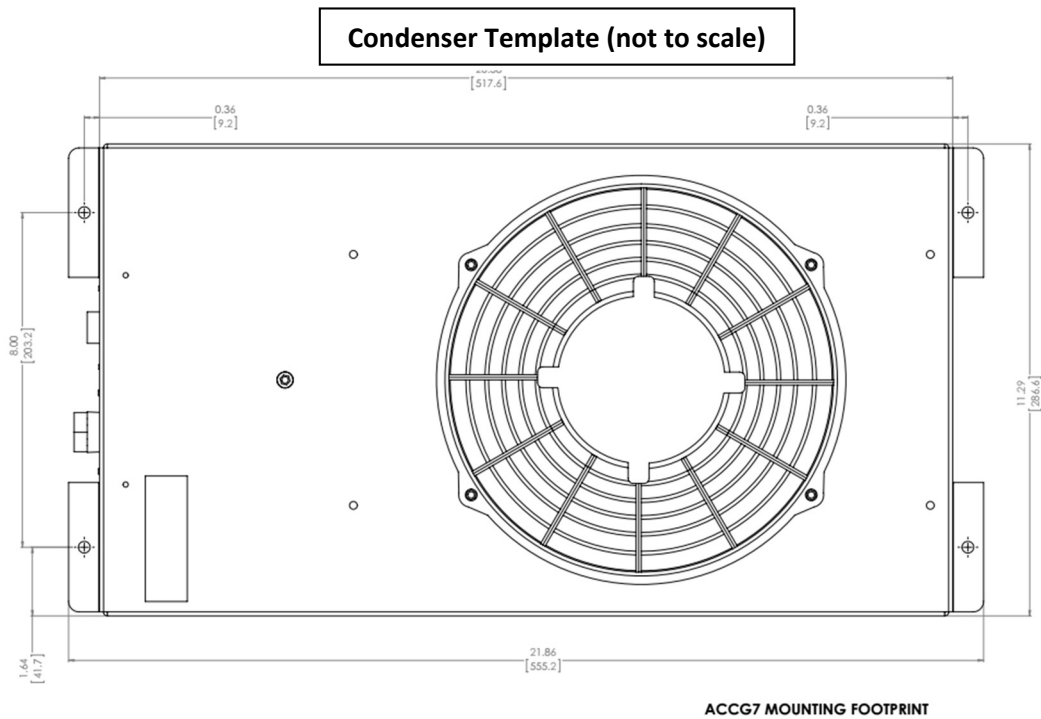


## Shore Power Only



**NOTE:** Some parts installed as part of the power system are not supplied by Dometic. For example, the alternator needs to be upgraded to a minimum of 270 amps if battery based, and batteries will be added to extend run time. Please contact Dometic for assistance in determining the necessary parts for your installation that do not come with the Dometic kit.

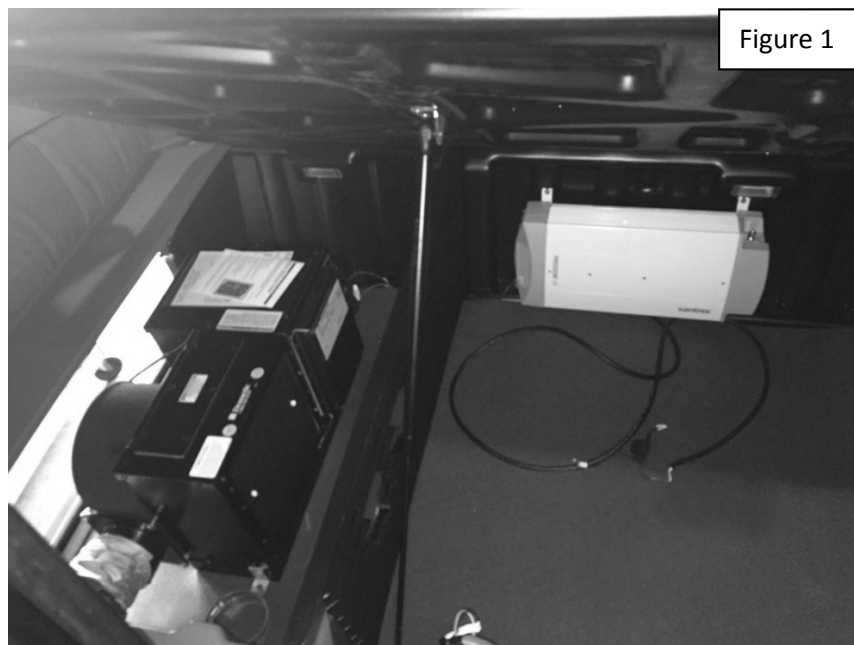




## Locating the Components

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 Freightliner Cascadia, we recommend placing the CHEB unit in the passenger-side luggage compartment (SEE FIGURE 1) of the under-bunk storage areas (SEE FIGURE 2), and mounting the condensing unit vertically on the back of the truck (SEE FIGURE 3). Refer to the primary installation manual for important guidelines not included here.



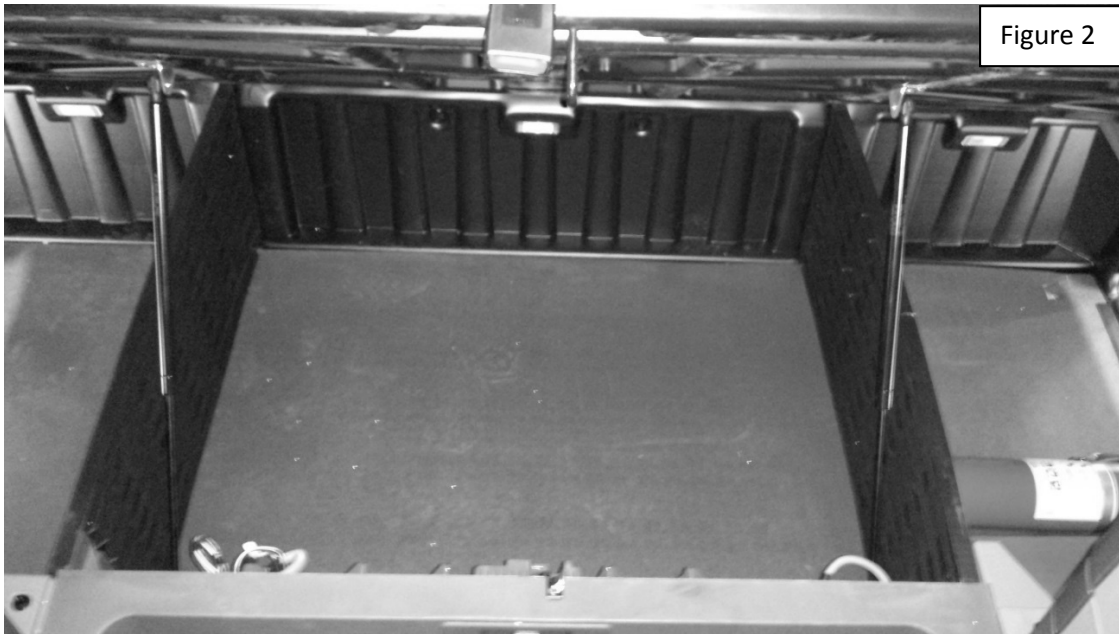


Figure 2

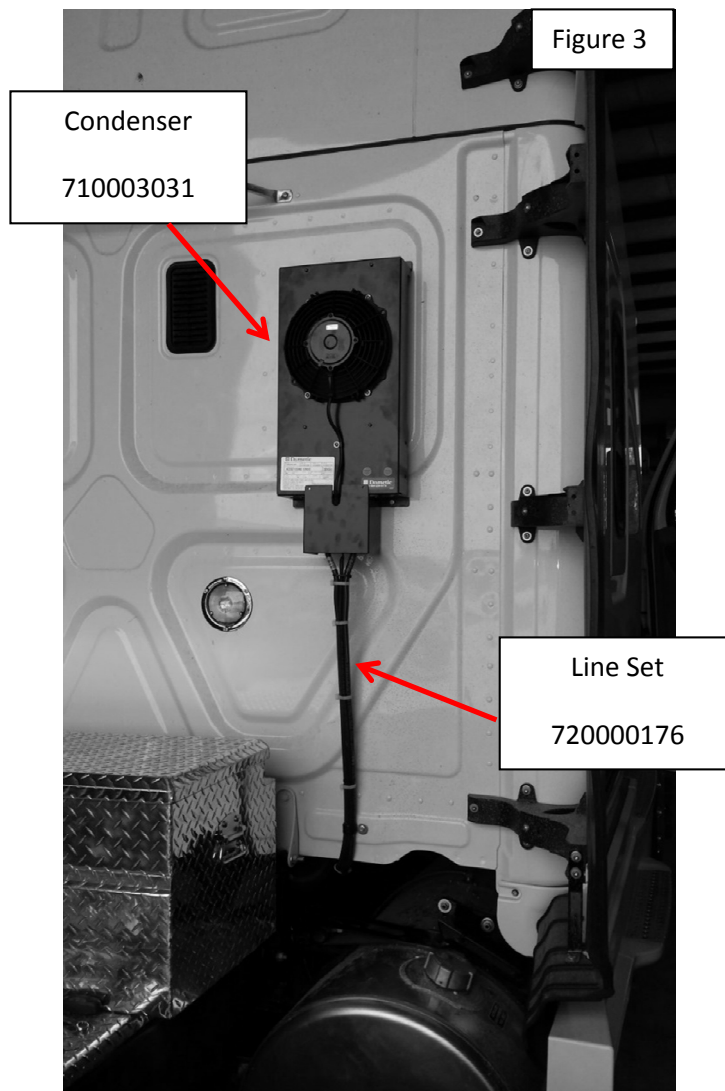


Figure 3

Condenser  
710003031

Line Set  
720000176

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

Use the template supplied with unit to position the CHEB unit correctly. The unit should have the blower side mounted towards the front of the truck. 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 grill in the front of the bunk wall in the middle carpeted area (FIGURE 4).

The supply-air plenum and CHEB blower will be mounted horizontally. One 4" flex duct will be feeding two towers stacked. The part number for the stacked towers is 710035534.



Figure 4

## Installing the Return Air Vent

The return air vent will be mounted under the middle of the bunk. Use the area that is carpeted (SEE FIGURE 4). Use a 4" hole saw to cut 4 holes to allow enough air flow for the return of the CHEB (FIGURE 4).

**Remember, good air flow from the return air grille to the CHEB evaporator 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.

## Installing the Supply Air Distribution

For the Freightliner Cascadia, you will use two air towers to achieve proper air flow for the CHEB unit.

Cut one 4½" hole into bottom cabinet. Cut two 2½" holes in upper portion of bunk compartment to slide tower through. Use self-tapping screws through the grille holes to mount the towers level. Run duct from unit to bottom portion of supply tower. (SEE FIGURE 5)



## Ignition Interlock

In order for the batteries (if battery based) to be charged properly while truck is underway, the Dometic unit cannot run when the truck is running. Therefore, the ignition interlock needs to be installed.

Route cable under passenger kick panel. Access fuse panel by removing glove compartment. You will use F23 fuse position. There should already be a 15 amp fuse.

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