




VTT/VTX Spare Part Instructions

# KIT DC-DC-CCM 24V CABLE

110058 & 110102.

 <p><b>Installation and servicing of Danfoss Turbocor® compressors by qualified and product trained personnel only. Follow these instructions and sound refrigeration/electrical/servicing practices relating to installation, commissioning, maintenance and service.</b></p>			
<p>Consult the appropriate Danfoss Turbocor Compressors Inc. (DTC) Service Manual on <a href="http://turbocoroem.com">turbocoroem.com</a> for detailed service instructions.</p>	<p><b>Never power compressor without covers in place and secured.</b></p> <p><b>Opening the drive panel will expose you to a voltage hazard of up to 575V AC and 900V DC. Ensure the mains input power is off and locked out before opening panel.</b></p> <p><b>Before opening the drive panel, wait at least 20 minutes after isolating AC power to allow the high voltage capacitors to discharge.</b></p>	<p>Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage.</p> <p><b>This equipment contains hazardous voltages that can cause serious injury or death.</b></p>	<p><b>Recover all refrigerant from compressor in accordance with local codes and ensure pressure is fully vented before the removal of refrigerant containing components.</b></p>

## 1 - Introduction

This kit contains the DC-DC-CCM 24V Cable. Please refer to our Service Manual for details regarding the replacement of this cable.

We have made the **VTT/VTX Service Manual** available to anyone. To access the manual, you may scan the applicable QR code below or you may go to our DTC website at [www.turbocoroem.com](http://www.turbocoroem.com). At the top of the page there is a pull-down menu called "Quick Links." Click this menu and select the appropriate service manual.

Refer to the applicable QR code below to download the VTT/VTX Service Manual.

**English**



**Chinese**



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## 2 - DC-DC-CCM 24V CABLE Removal Instructions

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**NOTE:** There are two (2) different styles of the DC-DC - CCM cables. Revisions “A” and “B” cables include Molex style connectors while Revision “C” cables include terminal block style connectors. As a result of this change, the connectors on the CCM board, the DC-DC board, and the cables must match (i.e., revision A or B for CCM board, DC-DC board, and cable or Revision C or later for CCM board, DC-DC board, and cable).

### Revision A and B Cables

1. Isolate VTT/VTX power as described in Section “Electrical Isolation of the VFD” of the Service Manual (M-SV-VT-001).
2. Remove the Service Side Cover.
3. Disconnect the 24 VDC (J16) and GND (J24) from the CCM board.
4. Remove the cover from the DC-DC panel.
5. Remove the 24 VDC (J4) and GND (J7) from the DC-DC board.
6. Remove the cable between the CCM and DC-DC.

### Revision C and Later Cables

1. Isolate VTT/VTX power as described in Section “Electrical Isolation of the VFD” of the Service Manual (M-SV-VT-001).
2. Remove the Service Side Cover.
3. Disconnect the 24 VDC (J16) from the CCM board.
4. Remove the cover from the DC-DC panel.
5. Remove the 24 VDC (J4) from the DC-DC board.
6. Remove the cable between the CCM and DC-DC.

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## 3 - DC-DC-CCM 24V CABLE Installation Instructions

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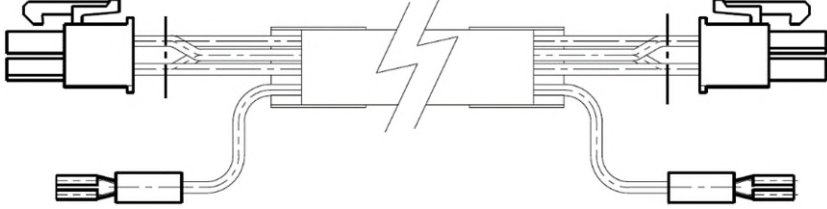
### Revision A and B Cables

1. Route the cable into the service side and into the DC-DC panel.
2. Connect the plugs on the CCM board at 24 VDC (J16) and GND (J24).
3. Terminate the connectors on the DC-DC board at 24 VDC (J4) and GND (J7).
4. Secure the cables in place.
5. Install the Service Side Cover.
6. Return the compressor to normal operation.
7. Test run the compressor to verify proper operation.

### Revision C and Later Cables

1. Route the cable into the service side and into the DC-DC panel.
2. Connect the plug to the J4 connector on the CCM board.
3. Terminate the connector on DC-DC board at 24 VDC (J4).
4. Secure the cables in place.
5. Install the Service Side Cover.
6. Return the compressor to normal operation.
7. Test run the compressor to verify proper operation.

4 - Kit Contents

Kit numbers	Compressor models	
110058	VTT	
QTY	Part(s) Description	Picture(s)
1	CABLE 24V DC-DC - CCM	

Kit numbers	Compressor models	
110102	VTT/VTX	
QTY	Part(s) Description	Picture(s)
1	CABLE 24V DC-DC - CCM	