



VTT/VTX Spare Part Instructions

KIT 250V DC-DC-PWM CABLE

110061 & 110104.



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.

<p>Consult the appropriate Danfoss Turbocor Compressors Inc. (DTC) Service Manual on turbocoroem.com for detailed service instructions.</p>	<p>Never power compressor without covers in place and secured.</p> <p>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.</p> <p>Before opening the drive panel, wait at least 20 minutes after isolating AC power to allow the high voltage capacitors to discharge.</p>	<p>Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage.</p> <p>This equipment contains hazardous voltages that can cause serious injury or death.</p>	<p>Recover all refrigerant from compressor in accordance with local codes and ensure pressure is fully vented before the removal of refrigerant containing components.</p>
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1 - Introduction

This kit contains the 250V DC-DC-PWM 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. 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



2 - 250V DC-DC-PWM CABLE Removal Instructions

NOTE: There are two (2) different styles of the 250V DC-DC-PWM cables. Revision "A" and "B" cables include Molex style connectors while Revision "C" and later cables include terminal block style connectors. As a result of this change, the connectors on the DC-DC board, PWM, and cable must match (i.e., revision "A" or "B" for the DC-DC board, PWM, and cable or Revision "C" or later for the DC-DC board, PWM, 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 J11 connector from the PWM board.
4. Remove the 250V PWM ground wire from the service side.
5. Remove the 250V DC-DC-PWM cables from the service side.
6. Open the panel containing the DC-DC.
7. Disconnect the 250 V (J2) clip from the DC-DC.
8. Disconnect the 250V DC-DC ground wire from the DC-DC J6 connector.
9. Remove the cable from the DC-DC panel.

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 J11 connector from the PWM.
4. Remove the cable from the service side.
5. Open the panel containing the DC-DC.
6. Disconnect the 250 V (J2) connector from the DC-DC.

3 - 250V DC-DC-PWM CABLE Installation Instructions

Revision A and B Cables

1. Route the cable into the service side.
2. Secure the ground cable to the service side.
3. Insert the connector to J11 on the PWM board.
4. Secure the cable where it enters the service side.
5. Install the Service Side Cover.
6. Route the cable into the DC-DC panel.
7. Connect the ground cable to the J6 connector on the DC-DC.
8. Insert the connector to J2 on the DC-DC board.
9. Close the DC-DC panel.
10. Return the compressor to normal operation.
11. Test run the compressor to verify proper operation.

Revision C and Later Cables

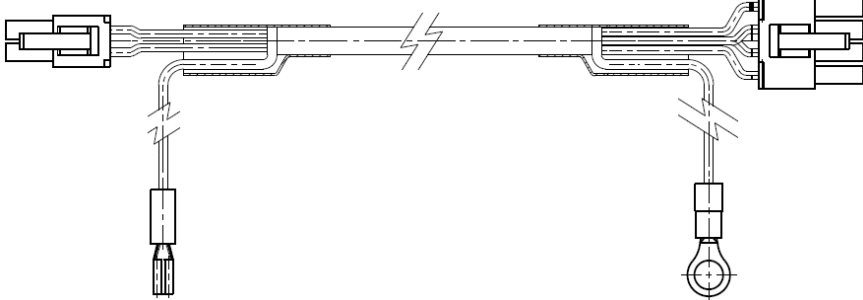
1. Route the cable into the service side.
2. Insert the connector to J11 on the PWM board.
3. Secure the cable where it enters the service side.
4. Install the Service Side Cover.
5. Route the cable into the DC-DC panel.
6. Insert the connector to J2 on the DC-DC board.
7. Close the DC-DC panel.
8. Return the compressor to normal operation.

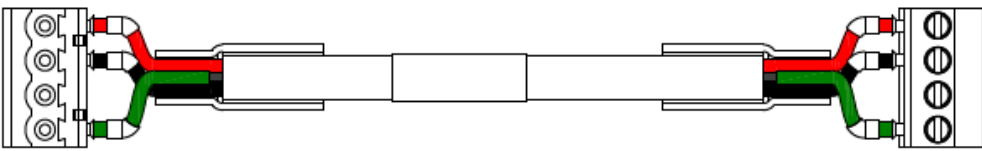


9. Test run the compressor to verify proper operation.

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4 - Kit Contents

Kit numbers	Compressor models	
110061	VTT	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - CABLE 250V DC-DC - PWM BOARD	

Kit numbers	Compressor models	
110104	VTT/VTX	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - CABLE 250V DC-DC - PWM BOARD	

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