

KIT SERVICE ELECTRONICS

110062,110109, & 110109-1.



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 Service Electronics for the VTT/VTX Compressors. Please refer to our Service Manual for details regarding the replacement of this component assembly.

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



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2 - SERVICE ELECTRONICS Removal Instructions

NOTE: As of the release of this instruction, there are two different major revisions for the Service Electronics Assembly (Revisions "A" & "B," and Revision "C." Verify that the Service Electronics Assembly being replaced is the same revision as the new one. Some cable connectors are different between the two major revisions and are not interchangeable.

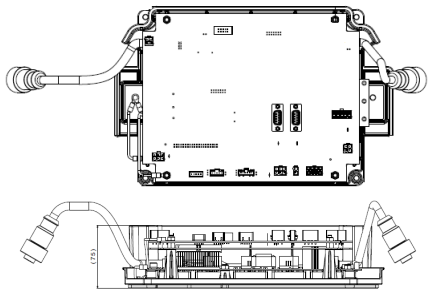




1. Isolate VTT/VTX power as described in Section "Electrical Isolation of the VFD" of the Service Manual (M-SV-VT-001).
2. Remove the Service Side Cover.
3. Remove all cables connected to the Service Electronics.
4. Remove the fasteners that secure the Service Electronics plastic frame to the main housing.

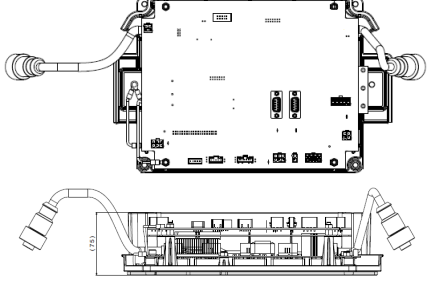




3 - SERVICE ELECTRONICS Installation Instructions

1. Clean and apply a thin layer of thermal paste to PWM heat sink surface of main housing.
2. Attach Service Electronics Assembly to main housing using fasteners through the holes in the plastic frame.
 - o Do not tighten.
3. Install and tighten all other related fasteners.
4. Tighten the Service Electronics fasteners.
5. Connect all cables.
6. Install the Service Side Cover.
7. Use the SMT to perform a calibration and save to EEPROM.

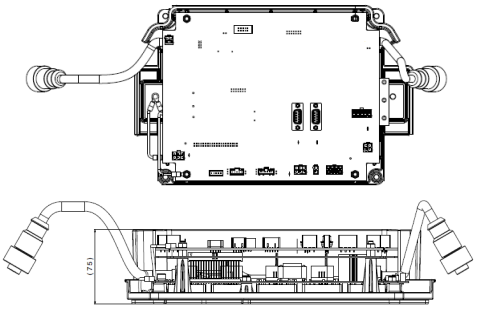




4 - Kit Contents

Note: Any part numbers included in the kit contents are internal part numbers only. Please refer to our Spare Parts Manuals for any kit part numbers.

Kit numbers	Compressor models	
110062	VTT (Revision A and B)	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - SERVICE ELECTRONICS	
6	WASHER, M5 FLAT – 902487	
6	WASHER, M5 SPLIT – 902488	
4	SCREW, M5 – 902631	
2	SCREW, M5 – 902480	

Kit numbers	Compressor models	
110109	VTT Revision C	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - SERVICE ELECTRONICS	
6	WASHER, M5 FLAT – 902487	
6	WASHER, M5 SPLIT – 902488	
4	SCREW, M5 – 902631	
2	SCREW, M5 – 902480	

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Kit numbers	Compressor models	
110109-1	VTX all revisions	
QTY	Part(s) Description	Picture(s)
1	ASSEMBLY - SERVICE ELECTRONICS	
6	WASHER, M5 FLAT – 902487	
6	WASHER, M5 SPLIT – 902488	
4	SCREW, M5 – 902631	
2	SCREW, M5 – 902480	

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