



KIT DC/DC CONVERTER ASSEMBLY

100040-1, 100040-3, 4, 5, & 6.



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.

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| <p>Consult the appropriate Danfoss Turbocor Compressors Inc. (DTC) Service Manual on turbocor.danfoss.com for detailed service instructions.</p> | <p>Never power compressor without covers in place and secured.</p> <p>Removing the mains input cover will expose you to a voltage hazard of up to 575V. Ensure the mains input power is off and locked out before removing cover.</p> <p>Before removing top cover, 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

DC/DC CONVERTER ASSEMBLY Removal and installation.

2 - DC/DC CONVERTER ASSEMBLY Removal Instructions:

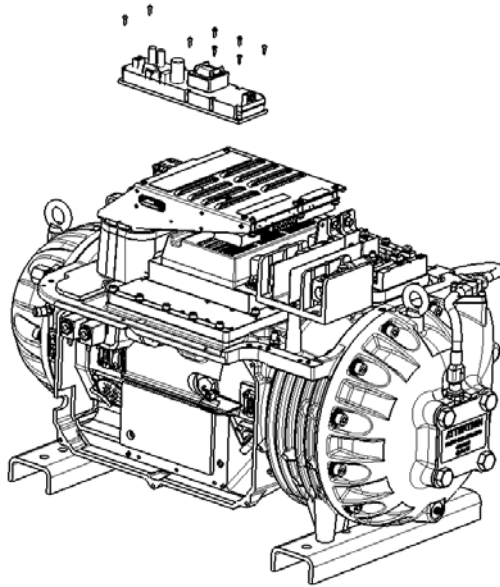
1. Isolate compressor power as described in Section 1.7 of the Service Manual (M-SM-001).
2. Remove the Mains input cover by releasing the four (4) captive screws that secure the Mains input cover and remove the cover.
3. Release the nine (9) captive screws that secure the Top cover and remove the cover.
4. Remove the four (4) connectors (800VDC (J1), 250VDC (J2), 24VDC (J3), and 15VAC (J4)) from the DC-DC Converter.
5. Loosen the four (4) screws that are located next to the IGBT Inverter.
6. Remove the four (4) screws that are located on the front side of the DC-DC Converter.
7. Lift the DC-DC Converter on the front side and slide it clear of the rear screws. Store the DC-DC Converter in the anti-static bag.

3 - DC/DC CONVERTER ASSEMBLY Installation Instruction:

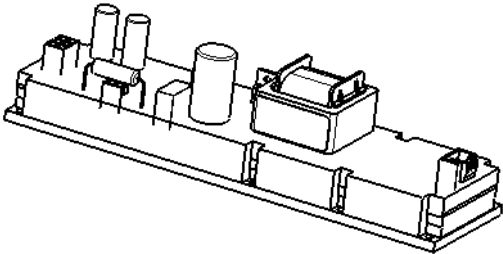

1. Remove the backing material from the DC-DC Converter.
2. Clean the IGBT Base Plate.
3. Align the heat sink with the mounting holes on the IGBT base plate.
4. Install the eight (8) screws that secure the DC-DC Converter heat sink to the IGBT base plate and torque to 0.5 Nm (4 in.lb.).

NOTE: The screws should be tightened up again three (3) hours later as the thermal compound spreads out under the mounting pressure.

5. Attach the connectors (800VDC (J1), 250VDC (J2), 24VDC (J3), and 15VAC (J4)) to the DC-DC Converter.
6. Install the Top cover and tighten the nine (9) captive screws that secure the Top cover.
7. Place the Mains input cover and secure it with the four (4) captive screws.



Kit Contents

| QTY | Part(s) Description | Picture(s) |
|-----|--|---|
| 1 | DC/DC CONVERTER |  |
| 8 | SCREW M3 X 10, S/HD CAP ISO 4762 A4-70 |  |



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