



# KIT BRACKET MAINS INPUT PLATE

100216, 100217, 100218, and 100219.



**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 <a href="http://turbocor.danfoss.com">turbocor.danfoss.com</a> for detailed service instructions.</p>	<p><b>Never power compressor without covers in place and secured.</b></p> <p><b>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.</b></p> <p><b>Before removing top cover, 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>
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## 1 - Introduction

BRACKET MAINS INPUT PLATE Removal and Installation Instructions.

## 2 - IMPORTANT NOTICE:

These components should only be replaced by technicians trained and competent in Danfoss Turbocor Compressor service techniques/procedures.

Danfoss Turbocor Compressor electrical isolation and ESD protection and personal grounding procedures must be followed. These procedures are found in Sections “Electrical Isolation of the Compressor” and “Handling Electronic Static Devices” of the Service Manual (M-SV-001).

- ⚠ Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage. Faulty components can explode and cause serious injury or death.
- ⚠ Care must be taken in removal and installation of the covers to prevent the screws from falling in to the power electronic compartment. Dropping cover screws can cause a short circuit, energized components to explode, and damage to the power electronic parts of the compressor. Place the screws carefully after positioning the covers to minimize the risk of screws falling in to the power electronic areas.

## 3 - Removal Instructions:

1. Isolate compressor power as described in Sections 1.7 through 1.9 of the Service Manual (M-SM-001).
2. Release the four (4) captive screws that secure the Mains Input Cover and remove the cover.

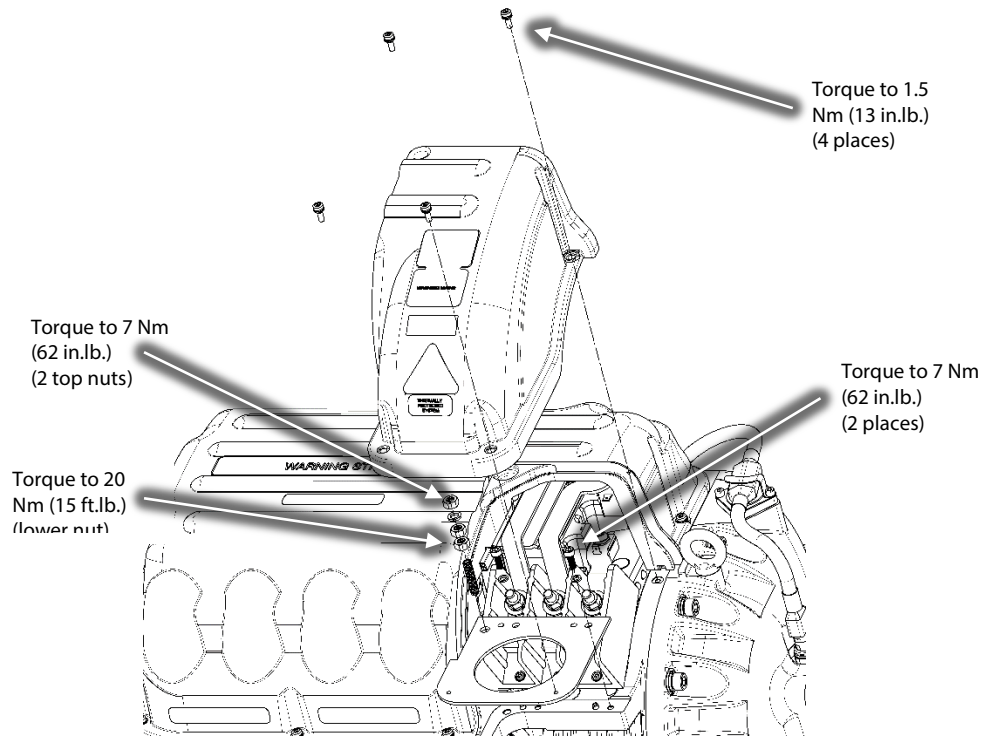


Figure 1 – Mains Input Cover and Mains Bracket Removal

3. Disconnect the main input cables from the compressor terminals.
4. Disconnect the main input ground cable and Soft Start ground wire from the ground post.
5. Remove the cable gland that secures the mains input cable conduit to the mains input bracket.
6. Remove the ground post nut and screws that secure the Mains Bracket.
7. Lift the Mains Bracket off the ground post.

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4 - Installation Instructions:

1. Place the Mains Bracket over the Ground Post.
2. Install the Ground Post nut and screws that secure the Mains Bracket.
3. Connect the Soft Start ground to the ground post, secure it with the nut.
4. Install the cable gland that secures the mains input cable conduit to the Mains Input Bracket.
5. Secure the main input ground cable to the ground post and the main input cables to the compressor terminals.

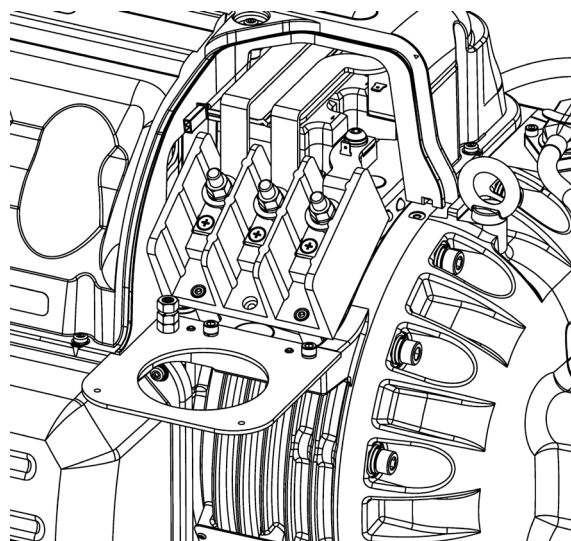


Figure 2 –Mains Bracket Installed

6. Install the Mains Input Cover and secure it with the four (4) M5x15 screws and tighten according to the following sequence.
7. Follow the sequence twice. The first time, only fasten screws to half way down to allow for adjustment. Torque to 13 in.lb. on the second pass. Fasten the # 4 screw only once and use caution as to not overtighten this screw.

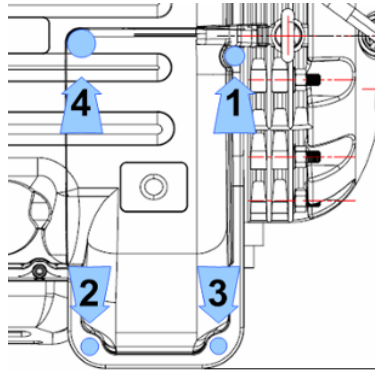


Figure 3 –Mains Input Cover Torque Sequence

5 - Kit Contents

QTY	Part(s) Description	Picture(s)
1	BRACKET - MAINS INPUT	
2	WASHER M6 SPLIT LOCK	
2	SCREW M6x16 SOCKET HEAD CAP	

ENGINEERING  
TOMORROW



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