



KIT INPUT MAINS BUS BARS

100416



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 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>
--	---	---	---

1 - Introduction:

INPUT MAINS BUS BARS Removal and Installation Instructions.

2 - Removal Instructions:

1. Isolate compressor power as described in Section "Electrical Isolation of the Compressor" of the Service Manual (M-SV-001).
2. Release the four (4) captive screws that secure the Mains Input Cover and remove the cover.
3. Using an appropriately rated volt meter, confirm that the AC voltage is isolated.
4. Wait at least 20 minutes for the DC bus capacitors to discharge.

DANGER: Do NOT touch any components when removing the top cover. This is particularly true for compressors with CE covers because they are coated on the outside for the express purpose of being conductive

5. Release the nine (9) captive screws that secure the Top Cover and remove the cover, taking particular care not to touch ANY components underneath.
6. Using an appropriately rated volt meter, check the DC bus bars for voltage level. If the voltage is above 5VDC, wait five (5) minutes and recheck until 5VDC or below is achieved.
7. Disconnect 3 phase mains input wiring. Refer to Figure 1 (Mains Input).

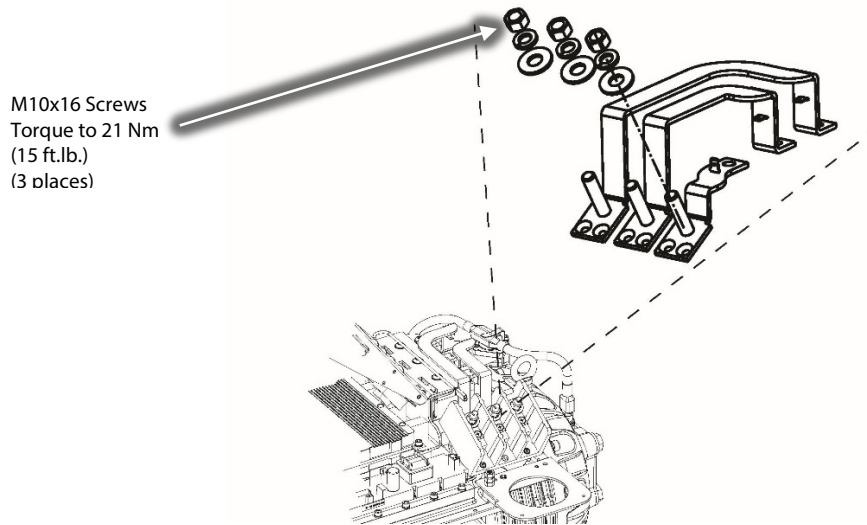


Figure 1 – Mains Input

8. Disconnect the three (3) connectors of the Soft Start cable harness from the bus bars. Refer to Figure 1 (AC/DC Harness Connections).

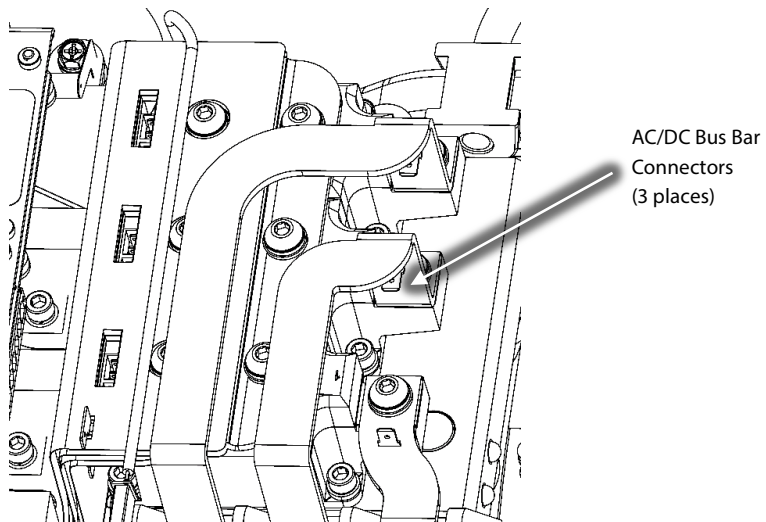


Figure 2 – AC/DC Harness Connections

9. Remove the six (6) screws that secure the three (3) terminal block bus bars to the terminal block. Refer to Figure 2 (Bus Bar Removal).
10. Remove the three (3) M8x20 screws that secure the three (3) bus bars to the SCRs. Refer to Figure 2 (Bus Bar Removal).

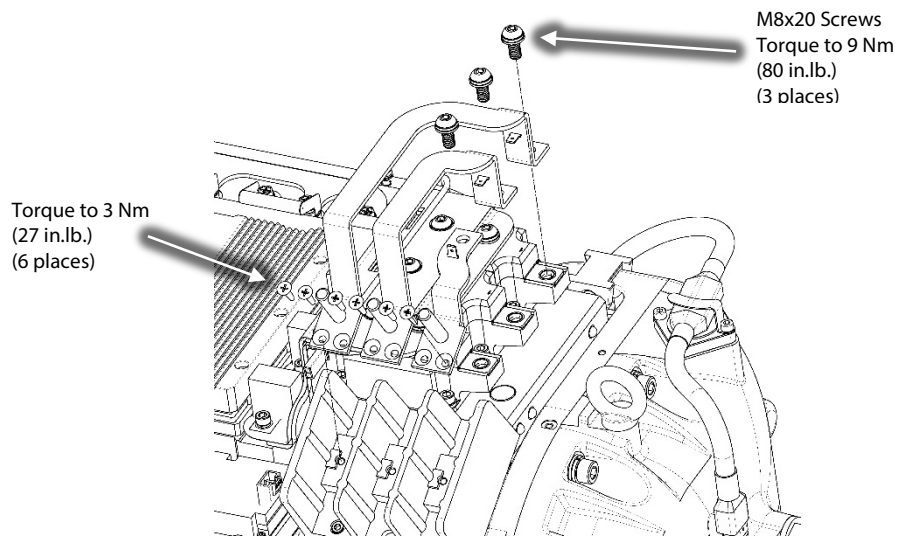


Figure 3 – Bus Bar Removal

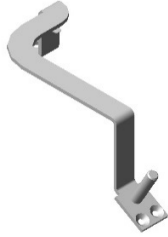
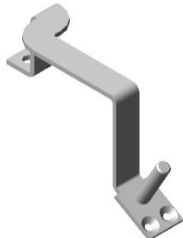
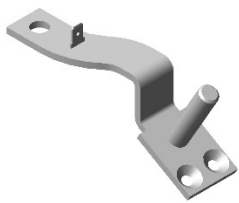



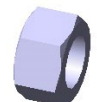
11. Lift away the bus bars.

3 - Installation Instructions:

1. Reverse Steps 1 through 11 of the removal procedure and start the compressor.

4 - Kit Contents

Kit numbers	Compressor models
100416	TT350, TT400, TT500 & TG310

QTY	Part(s) Description	Picture(s)
1	INPUT MAINS BUS BAR, PHASE 1	
1	INPUT MAINS BUS BAR, PHASE 2	
1	INPUT MAINS BUS BAR, PHASE 3	
3	WASHER, 3/8" SPLIT LOCK	
3	WASHER 3/8" FLAT 0.438"ID 1.0"OD 0.083"THK TYPE A WIDE	
3	SCREW M8x20-BUTTON HEAD CAP DBL SEMS	
3	NUT, HEX, 3/8- 16 UNC HEX	

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed.

ENGINEERING
TOMORROW



All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.