



KIT FRONT BEARING HERMETIC FEEDTHRU - 4 PIN

100293, 100293-1, & 100370.



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>
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1 - Introduction:

FRONT BEARING HERMETIC FEEDTHRU - 4 PIN Removal and Installation Instructions.

2 - Removing Refrigerant from Compressor:

- Recover refrigerant from compressor in accordance with local codes and practices.

3 - Suggested Tools:

The following tools are suggested to disassemble and reassemble feed through assemblies:

- 4 mm hex socket bit
- Torque wrench – Must be able to measure a torque of 18 Nm (13.3 ft.lb.)
- Needle-nose pliers

4 - Disassembly Instructions:

1. Release the six (6) screws that secure the Service Side Cover and lift away the cover.
2. Pull the Serial Driver Module out of its slot. Make sure you do not damage the connector pins. Keep it in a safe place.

NOTE: Refer to the Service Manual for proper electrostatic discharge (ESD) handling of electronic components.

3. Pull the Bearing Motor Compressor Controller (BMCC) out of its slot. Make sure you do not damage the connector pins. Keep it in a safe place.

4. Unplug the cable harness from the 4-pin feed through and the 6-pin feed through.
5. Unscrew the three (3) screws that secure the PWM and pull the Bearing PWM out of its slot. Make sure you do not damage the connector pins. Keep it in a safe place.
6. Using a hex socket bit, remove the four (4) screws that secure the feed through.
7. Remove the feed through (you may need needle-nose pliers for removal).

5 - Assembly Instructions:

1. If necessary, clean both mating surfaces with a lint-free cloth.
2. Apply a drop of Super-O-Lube on the new O-ring.
3. Install the lubricated O-ring onto the new feed through.
4. Install the new feed through into the compressor housing. Check connector orientation with female connector of bearing.
5. Finger-tighten the four (4) new M5x16 screws and then torque to 3 Nm (2.2 ft. lb.). Refer to Figure 1 (Torque Sequence).
6. Perform a final torque of 5 Nm (3.7 lb. ft.).

NOTE: There are different styles of bearing power feed throughs. Older versions have a removable black neoprene gasket. This was later replaced on Major Revision "E" compressors with a non-removable red neoprene gasket. There is also a new sealed harness (See Figure 2 - Major Revision "F" and Later Feed Throughs) that contains a pigtail.

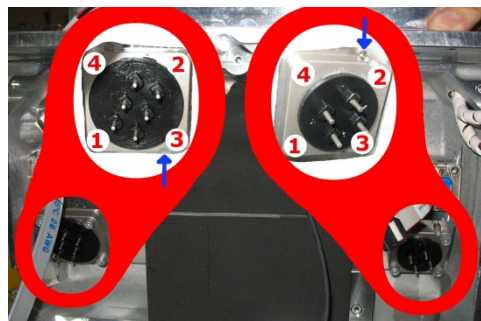


Figure 1 – Torque Sequence

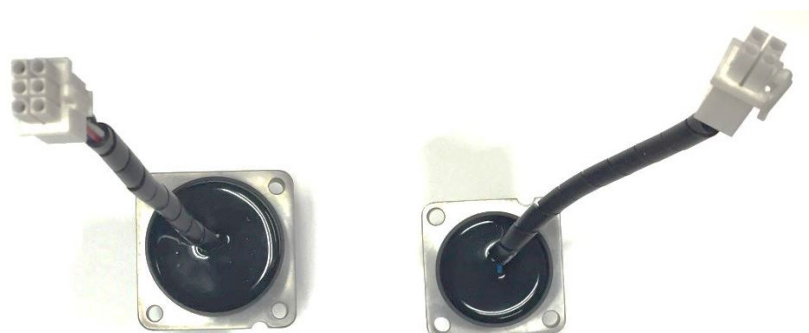


Figure 2 – Major Revision "F" and Later Feed Throughs

7. Leak test and vacuum as per industry standards.
8. Carefully, insert the PWM back into its slot. Re-install the three screws that secure it. Make sure not to strip them.
9. Plug the cable harness back into the 4-pin feed through and 6-pin feed through.
10. Carefully, insert the BMCC back into its slot. Align the BMCC module's two lower guides so that they are aligned on the inside of the Bearing PWM module's two upper guides. Note the insertion guides in the following figure.

11. Carefully, insert the Serial Driver back into its slot. Align the serial driver module's two lower guide rails so that they are aligned on the inside of the BMCC module's two upper guide rails. See Figure 3 (Module Alignment).

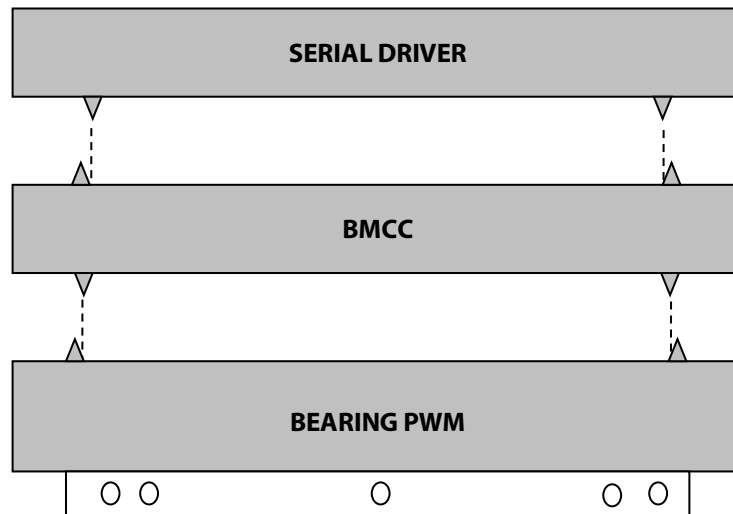










Figure 3 – Module Alignment

12. Re-install the Service Side Cover and secure with the six (6) screws.
13. Charge with refrigerant.
14. Apply mains power to the compressor.

6 - Kit Contents

Kit	100293, 100293-1	
QTY	Part(s) Description	Picture(s)
1	HERMETIC FEEDTHRU - 4 PIN WITH O-RING	
4	SCREW M5X16 SOCKET HEAD CAP	
1	O-RING	
1	LUBRICATION-SUPER-O-LUBE-2G	

Kit	100370	
QTY	Part(s) Description	Picture(s)
1	HERMETIC FEEDTHRU - 4 PIN WITH O-RING	
4	SCREW M5X16 SOCKET HEAD CAP	
1	O-RING	
1	LUBRICATION-SUPER-O-LUBE-2G	

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