



# 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 <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> |
|--|---|---|---|

1 - Introduction:

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

This kit contains the Front Bearing Feethrough and the associated hardware. Please refer to our Service Manual for details regarding the replacement of the feedthrough.

We have made the TTS/TGS/TTH/TGH 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](http://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 TTS/TGS/TTH/TGH Service Manual.

**English**



**Chinese**



2 - FRONT BEARING HERMETIC FEEDTHROUGH Disassembly Instructions:

1. Isolate compressor power.
2. Isolate the compressor and recover the refrigerant according to industry standards.
1. Remove the Service Side Cover.
2. Remove the Serial Driver.
3. Remove the BMCC.

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





4. Remove the PWM.
5. Remove the Front Bearing Feedthrough.

3 - FRONT BEARING HERMETIC FEEDTHROUGH Assembly Instructions:



1. If necessary, clean both mating surfaces with a lint-free cloth.
2. Lubricate the new feedthrough O-ring.
3. Install the O-ring onto the new Front Bearing Feedthrough.
4. Install the Front Bearing Feedthrough. Verify the connector orientation with the female connector of the bearing.
5. Install the PWM.
6. Install the BMCC.
7. Install the Serial Driver.
8. Install the Service Side Cover.
9. Leak test and evacuate compressor in accordance with standard industry practices.
10. Return the compressor to normal operation.

**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 that contains a pigtail.

4 - Kit Contents:

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

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. 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.