

# KIT BEARING PWM MODULE

100022, 100372



**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.**

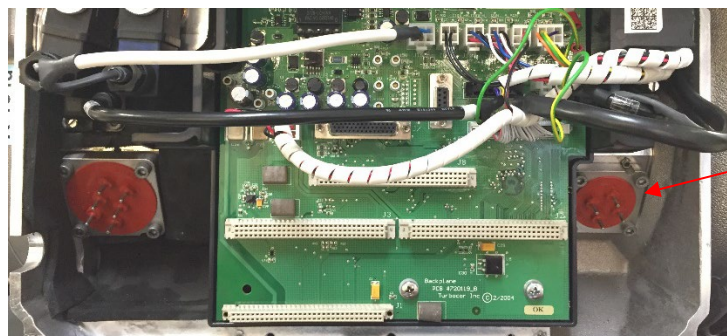
<p>Consult the appropriate DTC Service Manual on <a href="http://turbocor.danfoss.com">turbocor.danfoss.com</a> for detailed service instructions.</p>	<p><b>Never power compressor without covers in place and secured.</b></p> <p><b>Removing the mains input cover will expose you to a voltage hazard of 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:

BEARING PWM MODULE Removal and Installation Instructions.

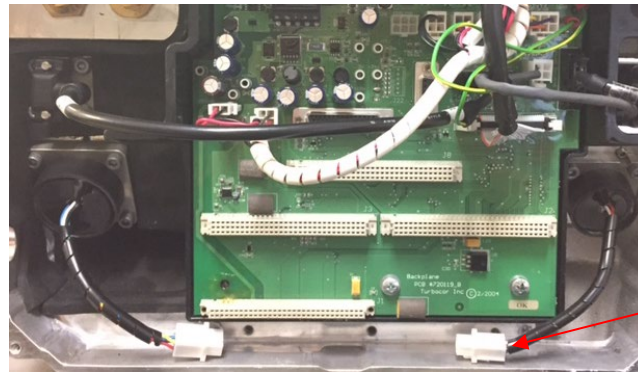
## 2 - Removal Instructions:

1. Isolate compressor power as described in sections 1.7 through 1.9 of the Service Manual (M-SV-001).
2. Release the six captive screws that secure the service-side cover. Lift away the cover.
3. Remove two upper boards (Serial Driver/Compressor Controller and BMCC/BMC).
4. Disconnect the PWM pigtails from the compressor.
  - For Major Revisions "E" and earlier, carefully withdraw the cluster block from the feed-thru connector on the front and rear radial bearings. Remove the cluster blocks squarely by hand to prevent damage to the connector pins.



Feed Through  
Connector (2 places)

- For Major Revisions “F” and later, disconnect the Molex connectors for the PWM and front and rear radial bearings.



Molex Connector  
(2 places)

5. Remove the three socket-head cap screws that secure the heat sink of the PWM Amplifier module to the main compressor housing.

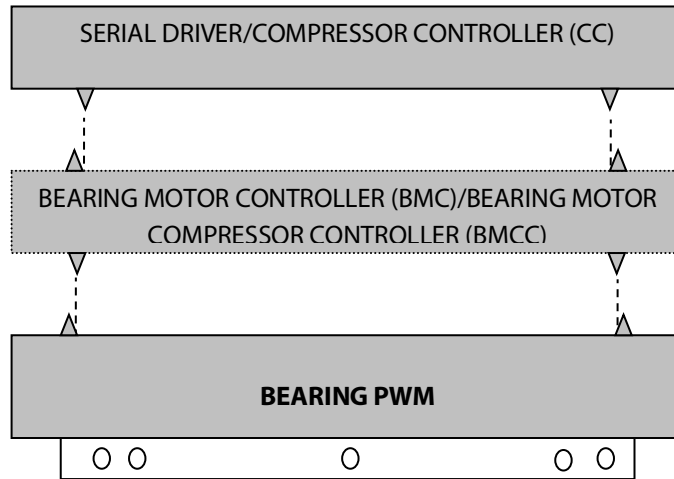


6. Pull the PWM Amplifier module out of its slot; store it in a safe place taking care to avoid damaging the I/O connection pins.

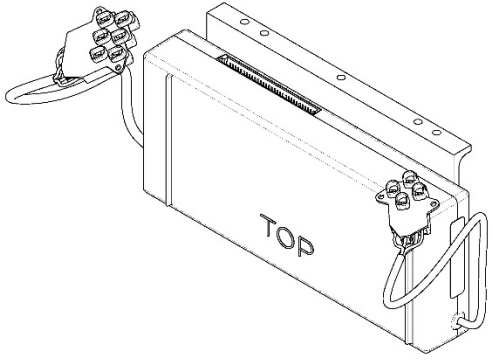

---

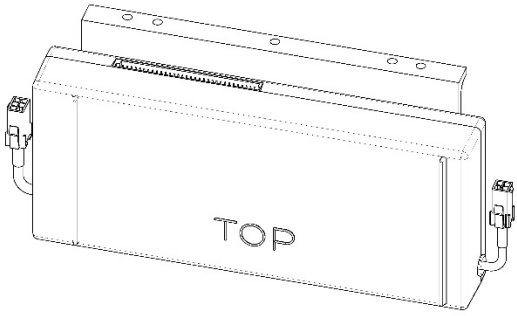

### 3 - Installation Instruction:

1. Apply “SILICON HEAT SINK COMPOUND” on the surface of the heat sink plate which contacts the housing.
2. Align the PWM module heat sink plate with the two guides protruding from the main compressor housing.
3. Insert the PWM module into the connector taking care to avoid damaging the I/O connection pins.
4. Secure the PWM module’s heat sink to the main compressor housing with three socket-head cap screws.
5. Verify that the module’s heat sink is firmly seated against the main compressor housing.
6. Connect the PWM pigtails to the compressor.
  - For Major Revisions “E” and earlier, carefully connect the two cluster blocks to the feed-thru connectors on the front and rear radial bearings.
  - For Major Revisions “F” and later, connect the Molex connectors for the PWM and front and rear radial bearings.



4 - Kit Contents

Kit Numbers		Picture(s)
100022		
QTY	Part(s) Description	Picture(s)
1	MODULE - BEARING PWM	
3	M5X10 SOCKET HEAD CAP SCREW	

Kit Numbers		Picture(s)
100372		
QTY	Part(s) Description	Picture(s)
1	MODULE - BEARING PWM	
3	M5X10 SOCKET HEAD CAP SCREW	

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.