



KIT TOP PLATE ASSEMBLY & 'O' RING

100314, 100314-2, 100315, 100315-1



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 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:

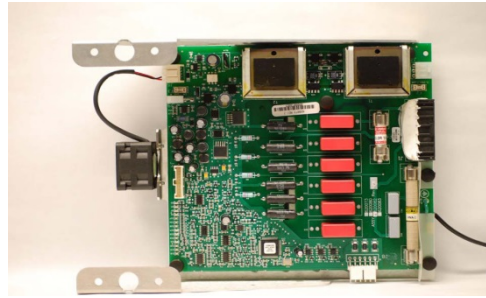
TOP PLATE ASSEMBLY & 'O' RING Removal and Installation Instructions.

2 - Removing Refrigerant from Compressor:

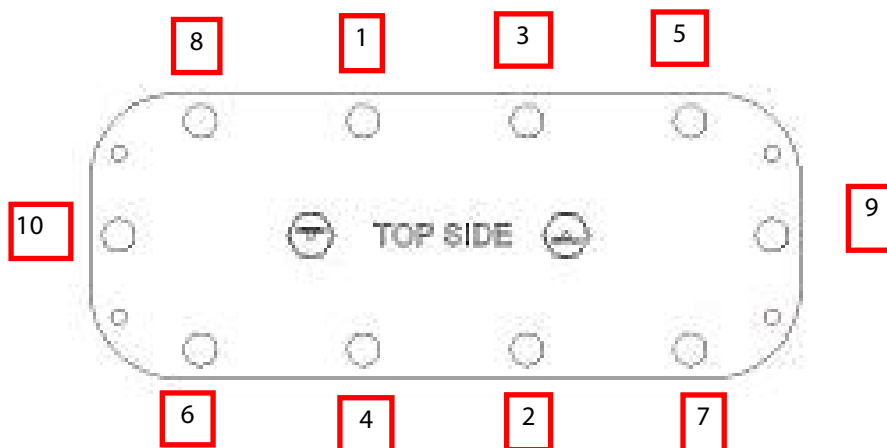
- Recover refrigerant from compressor in accordance with local codes and practices.

3 - Replacement Instructions:

- Note: It is far more desirable to take care in installation identifying and inspecting 'O' Rings than to repeatedly overhaul components with faulty seals.
1. Ensure that the area used for installations is clean and free from all contamination.
 2. Isolate compressor power in accordance with the section above.
 3. Unplug the three cable connectors from the Soft-Start Board.
 4. Disconnect the Soft-Start ground wire by removing the nuts and mains input ground wire from the ground post on the compressor housing.
 5. Remove the four screws and washers that secure the mounting bracket.



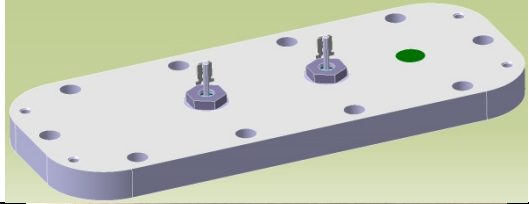
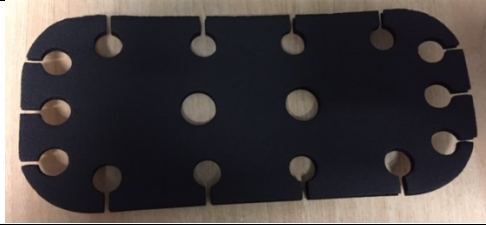
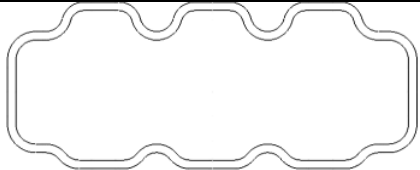

6. Remove the Soft-Start Board and store in the ESD bag.
7. Unhook the MTR Thermistor wires.
8. Remove the foam insulation from the cover plate.
9. Remove the 10 screws that secure the cover plate and remove the plate.
10. Remove the 'O' Ring that is to be installed from its package and inspect it for defects such as blemishes, abrasions, cuts, or punctures.
11. The slight stretching of the 'O' Ring when it is rolled inside out will help to reveal some defects not otherwise visible. A further check of each 'O' Ring should be made by stretching it between the fingers, but care must be taken not to exceed the elastic limits of the rubber.
12. If you received a pre shaped 'O' Ring which is coated by white powder, it should be cleaned up using O-lube and a soft rag.
13. After inspection and prior to installation, lubricate the O- ring, and all the surfaces that it must slide over with a light coat of o-lube.
14. Inspect 'O' Ring groove on the Cover Plate and clean it using a soft cloth then blow air to remove any particle may cause leak.
15. Install the 'O' Ring into the groove of the 'O' Ring on the main housing. Assembly must be made with care so that the 'O' Ring is properly placed in the groove and not damaged as the housing is closed.
16. Avoid rolling or twisting the 'O' Ring when maneuvering it into place.
17. Keep the position of the 'O' Ring mold line constant.
18. Secure the Cover Plate with 10 bolts using a torque wrench set to 13 Nm. Screws should be tightened in diagonal order according to the following figure.

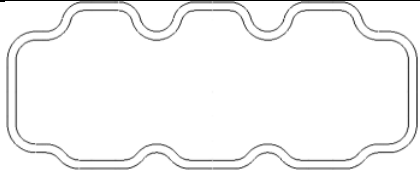



19. Follow the torque sequence and torque twice
20. Install new foam insulation to cover plate.
21. Install the MTR Thermistor wires to their designation.
22. Install the Soft-Start.
23. Install the top cover.
24. Install the Mains Input cover.
25. Start the compressor.

26. Perform a leak test to ensure that the parts are assembled and sealed perfectly.

4 - Kit Contents

Kit	100314, 100314-2	
QTY	Part(s) Description	Picture(s)
1	COVER PLATE ASSEMBLY	
1	Insulation Foam	
1	'O' RING	
1	LUBRICATION-SUPER "O" LUBE-2G Note: Only for 100314-2.	

Kit	100315, 100315-1	
QTY	Part(s) Description	Picture(s)
1	'O' RING	
1	LUBRICATION-SUPER "O" LUBE-2G Note: Only for 100315-1.	

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