



IGV BALL AND GLASS

100137 and 100138



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 LLC Service Manual on www.turbocoroem.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 853VDC. 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

IGV BALL AND GLASS removal and installation instructions.

This kit contains the IGV Ball and Glass.

Please refer to our Service Manual for the replacement instructions.

We have made the **TT Series 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. At the bottom of the page there is a Section named "Categories" that includes various menus including one for Manuals.

Refer to the applicable QR code below to download the TT Series Service Manual.

English



Chinese



2 - Suggested Tools

The following tools are suggested to remove the Window adhesive:

- Razor blade

3 - Removal Instructions

1. Carefully remove the IGV Position Indicator Window and Ball. If needed, you can use a small-bladed screwdriver to carefully pry the Window away from the IGV Housing.

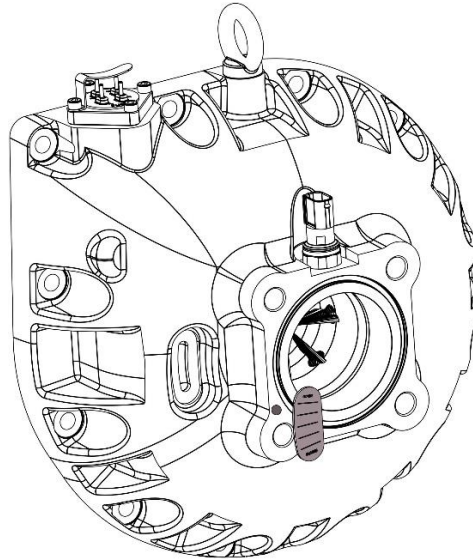


Figure 1 – IGV Window and Ball Removal

4 - Application Instructions

1. Clean the IGV Ball groove with a wire brush to ensure the groove area is clean of any debris and is smooth.

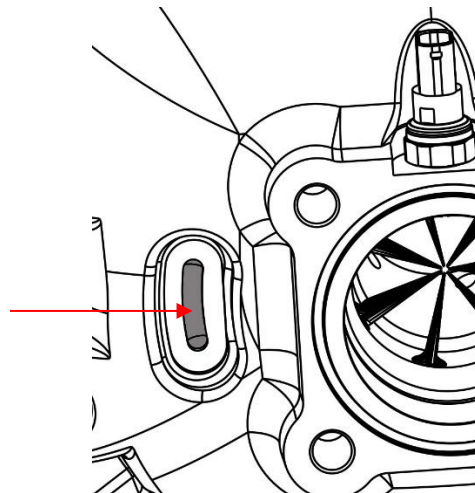


Figure 2 – IGV Ball Groove

2. Ensure the surface where the IGV Window was removed is clean and oil free. If necessary, use a razor blade to clean the surface.
3. Use a solvent, such as alcohol, to clean the ball groove and contact area of the IGV Window.

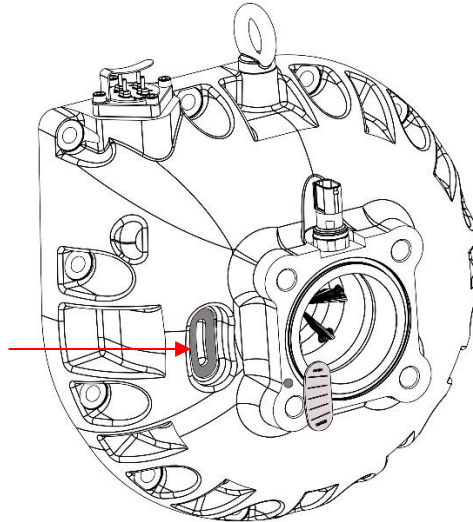


Figure 3 – IGV Window Prep

4. Place the replacement IGV Indicator Ball in the ball groove and move it up and down until it is attracted to IGV magnet.
5. Carefully peel back the protective liner on the foam to expose the adhesive backing and apply the IGV Window. Press firmly on the IGV Window for several seconds to maximize adhesion to the housing.

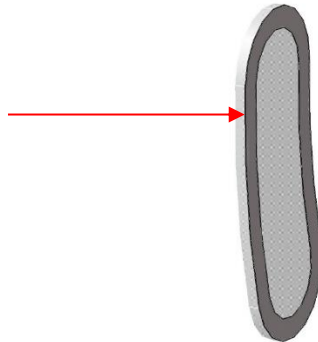


Figure 4 – Protective Liner Removal

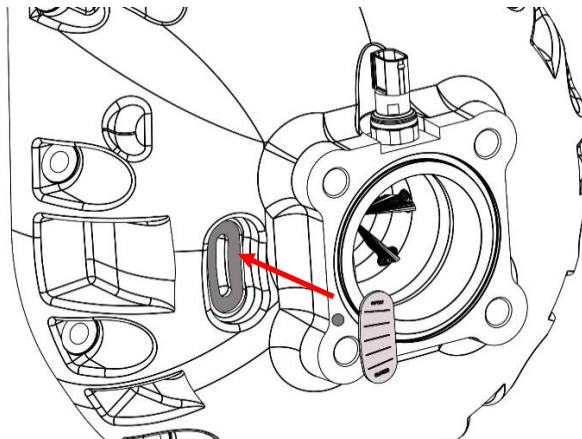


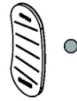
Figure 5 – IGV Window Installation




6. Test run the compressor to verify proper operation and movement of the IGV assembly.

5 - Kit Contents

Note: Any part numbers included in the kit contents are internal part numbers only. Please refer to our Spare Parts Manuals for any kit part numbers.

Kit Number		Compressor Models
Kit number: 100137		<ul style="list-style-type: none"> TTS300/TTS350/TTS400/TTS450/TTS500/TTS700 TGS230/TGS310/TGS/380/TGS390/TGS490/TGS520
QTY	Part(s) Description	Picture(s)
1	IGV BALL AND GLASS	

Kit Number		Compressor Models
Kit number: 100138		<ul style="list-style-type: none"> TTH375/TGH285
QTY	Part(s) Description	Picture(s)
1	IGV BALL AND GLASS	

6 - List of Changes

Revision	Date	Description of Change
A	9/19/2023	New

Danfoss LLC can accept no responsibility for possible errors in catalogues, brochures, and other printed material. Danfoss LLC 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.