




# IGV REPAIR

100222, 100223, 100223-5, 100227, 100228, 100229, 100231, 100232,  
100246, 100261, 100392, 100704, & 100705

 <b>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.</b>			
Consult the appropriate Danfoss LLC Service Manual on <a href="http://www.turbocoroem.com">www.turbocoroem.com</a> for detailed service instructions.	<b>Never power the compressor without the top covers in place and secured.</b>  Removing the mains input cover will expose you to hazardous voltages. Ensure the mains input power is off and locked out before removing the cover.  Before removing the top cover, wait at least 20 minutes after isolating AC power to allow the high-voltage capacitors to discharge.	Always wear appropriately rated safety equipment when working around equipment and/or components energized with high voltage.  This equipment contains hazardous voltages that can cause serious injury or death.	<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>

## 1 - Introduction

Please refer to our service manual for the removal and installation procedures.

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 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/TG Series Service Manual.

English

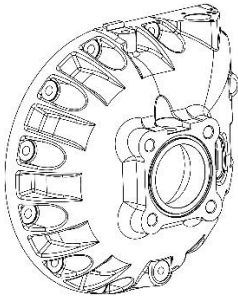




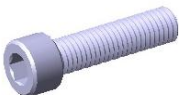










Chinese

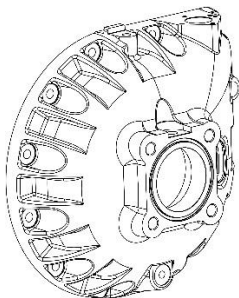




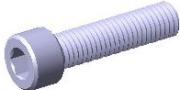









## 2 - Kit Contents

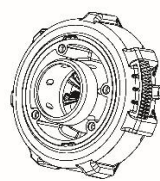



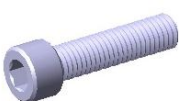


**Note:** Any part numbers included in the kit contents are internal part numbers only. Please refer to our Spare Parts Manuals for any kit part numbers.







IGV Housing Bare		
Kit numbers: 100223, 100229		
QTY	Part(s) Description	Picture(s)
1	IGV Housing	
1	SCREW, M5X8 S/SET FLT POINT – 900095	
4	SCREW, M5 – 902844	
1	O-RING – IGV FEEDTHROUGH – 901855	
1	O-RING – P/T SENSOR – 600A0343	
12	SCREW, M10 – 902847	
12	WASHER, M10 FLAT – 902836	
12	WASHER, M10 SPLIT – 902839	
1	O-RING – ECONOMIZER – 901851 (TTS300/TGS230 only, included in Kit 100223)	
1	O-RING – ECONOMIZER – 901852 (Excludes TTS300/TGS230)	
1	O-RING – DISHCHARGE – 901853	
1	O-RING – SUCTION – 901854	

1	O-RING – IGV HOUSING – 901857	
3	LUBRICATION-SUPER-O-LUBE-2G – 900578	









IGV Housing Bare		
Kit numbers: 100223-5		
QTY	Part(s) Description	Picture(s)
1	IGV Housing	
1	SCREW, M5X8 S/SET FLT POINT – 900095	
4	SCREW, M5 – 902844	
1	O-RING – IGV FEEDTHROUGH – 901855	
1	O-RING – P/T SENSOR – 600A0343	
12	SCREW, M10X40 – 902847	
12	WASHER, M10 FLAT – 902836	
12	WASHER, M10 SPLIT – 902839	
1	O-RING – ECONOMIZER – 901852	

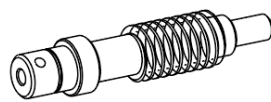

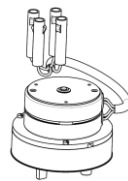
1	O-RING – DISHCHARGE – 901853	
1	O-RING – SUCTION – 901854	
1	O-RING – IGV HOUSING – 901857	
3	LUBRICATION-SUPER-O-LUBE-2G – 900578	






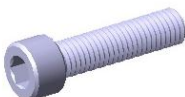









IGV Throat Repair Kits		
Kit numbers: 100227		
QTY	Part(s) Description	Picture(s)
1	IGV Drive Assembly	
1	SCREW, M5x8 SET SCREW – 900095	
4	SCREW, M5 – 901671	
4	SCREW, M5 – 902844	
12	SCREW, M10 – 902847	
12	WASHER, M10 FLAT – 902836	
12	WASHER, M10 SPLIT – 902839	

1	O-RING – ECONOMIZER – 901851	
1	O-RING – DISHCHARGE – 901853	
1	O-RING – SUCTION – 901854	
1	O-RING – IGV FEEDTHROUGH – 901855	
1	O-RING – IGV HOUSING – 901857	
3	LUBRICATION-SUPER-O-LUBE-2G – 900578	


IGV Throat Repair Kits		
Kit numbers: 100228, 100231, 100232, 100261, 100392, 100704		
QTY	Part(s) Description	Picture(s)
1	IGV Drive Assembly	
1	SCREW, M5x8 SET SCREW – 900095	
4	SCREW, M5 – 901671	
4	SCREW, M5 – 902844	
12	SCREW, M10 – 902847	

12	WASHER, M10 FLAT – 902836	
12	WASHER, M10 SPLIT – 902839	
1	O-RING – ECONOMIZER – 901852	
1	O-RING – DISHCHARGE – 901853	
1	O-RING – SUCTION – 901854	
1	O-RING – IGV – 901855	
1	O-RING – IGV HOUSING – 901857	
3	LUBRICATION-SUPER-O-LUBE-2G – 900578	

IGV Worm Gear & Motor Repair Kit		
Kit numbers: 100222, 100705		
QTY	Part(s) Description	Picture(s)
1	WORM IGV	
1	COLLAR - IGV WORM BEARING – 710606	
1	MOTOR - IGV 12VDC STEPPER	

1	CIRCLIP - Ø17 RETAINING RING EXTERNAL – 910243	
1	BEARING, BALL - RADIAL Ø10 ID x Ø19 OD – 920241	
1	BEARING, BALL - RADIAL Ø17 ID x Ø30 OD – 920242	
1	SCREW M5X 8 S/SET FLT POINT – 900095	
4	SCREW, M5 – 902844	
12	SCREW, M10 – 902847	
12	WASHER, M10 FLAT – 902836	
12	WASHER, M10 SPLIT – 902839	
1	O-RING – IGV FEEDTHROUGH – 901855	
1	O-RING – ECONOMIZER – 901851 (TTS300/TGS230 only included in Kit 100222)	
1	O-RING – ECONOMIZER – 901852 (Only included in Kit 100704)	
1	O-RING – DISHCHARGE – 901853	
1	O-RING – SUCTION – 901854	
1	O-RING – IGV HOUSING – 901857	
3	LUBRICATION-SUPER-O-LUBE-2G – 900578	



IGV Extractor Worm Gear Kit		
Kit numbers: 100246		
QTY	Part(s) Description	Picture(s)
1	EXTRACTOR - WORM GEAR	

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### 3 - List of Changes

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Revision	Date	Description of Change
Q	8/18/2022	Added kit 100392 Removed obsoleted kit 100250
R	3/4/2025	Updated format Added hardware to the kit contents  Added BOM for 100223-5

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