KIT BEARING SENSOR CABLE ASSEMBLY

100064, 100065.

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.

Consult the appropriate DTC Service Manual on turbocor.danfoss.com for detailed service instructions.	**Never power compressor without covers in place and secured.** **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.** **Before removing 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.**	**Recover all refrigerant from compressor in accordance with local codes and ensure pressure is fully vented before the removal of refrigerant containing components.**

1 - Introduction

BEARING SENSOR CABLE ASSEMBLY Removal and Installation.

2 - Front Sensor cable Replacement Procedure:

- Removal of old cable:
  1) Connect cable to connector (J10) on backplane. See Figure 2. Ensure that plug is inserted in correct polarity. Refer to locating keys on plug and slots in connector. Snap connector retainers into place by gently squeezing.

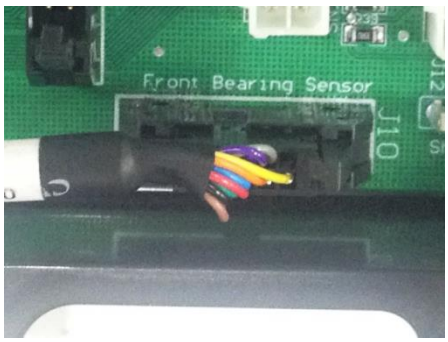

Figure 2

  2) Ensure that 9 pin connector is clean and free of grease and silicone gel.
  3) Connect cable to the 9-pin connector, tighten screws.
  4) Carry out bearing calibration if replacing one cable or after replacing both cables. Save calibration to EEPROM.

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5) Replace the service side cover.

- Installation of new cable:
  1) Connect cable to connector (J9) on backplane. Ensure that plug is inserted in correct polarity (refer to locating keys on plug and slots in connector). Snap connector retainers into place by gently squeezing.
  2) Ensure that compressor 9-pin connector is clean and free of grease and silicone gel.
  3) Connect cable to the 9-pin connector, tighten screws.
  4) Install earth cable to J11 shield earth terminal on backplane
  5) Wipe 3M Silicon Paste Dielectric Grease liberally over 9D cable/compressor connector to seal from moisture ingress (3M part number 08946; purchase locally).
  6) Carry out bearing calibration if replacing one cable or after replacing both cables. Save calibration to EEPROM
  7) Replace the service side cover.

3 - Rear Sensor cable Replacement Procedure:

- Removal of old cable:
  1) Isolate the compressor power in accordance with established procedures.
  2) Connect wrist strap to wrist and connect to appropriate ground.
  3) Remove service side cover.
  4) Remove earth cable from J11 shield terminal.
  5) Disconnect the rear bear bearing sensor from 9-pin connector on compressor housing.
  6) Disconnect cable from J9 plug on the backplane. See Figure 1.

Figure 1

- Installation of new cable:
  1) Connect cable to connector (J9) on backplane. Ensure that plug is inserted in correct polarity (refer to locating keys on plug and slots in connector). Snap connector retainers into place by gently squeezing.
  2) Ensure that compressor 9-pin connector is clean and free of grease and silicone gel.
  3) Connect cable to the 9-pin connector, tighten screws.
  4) Install earth cable to J11 shield earth terminal on backplane
  5) Wipe 3M Silicon Paste Dielectric Grease liberally over 9D cable/compressor connector to seal from moisture ingress (3M part number 08946; purchase locally).
  6) Carry out bearing calibration if replacing one cable or after replacing both cables. Save calibration to EEPROM
  7) Replace the service side cover.

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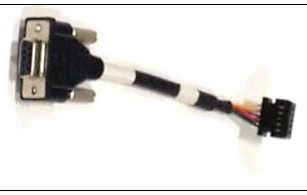
4 - Kit Contents

QTY	Part(s) Description	Picture(s)
1	CABLE HARNESS FRONT BEARING SENSOR	

QTY	Part(s) Description	Picture(s)
1	CABLE HARNESS REAR BEARING SENSOR