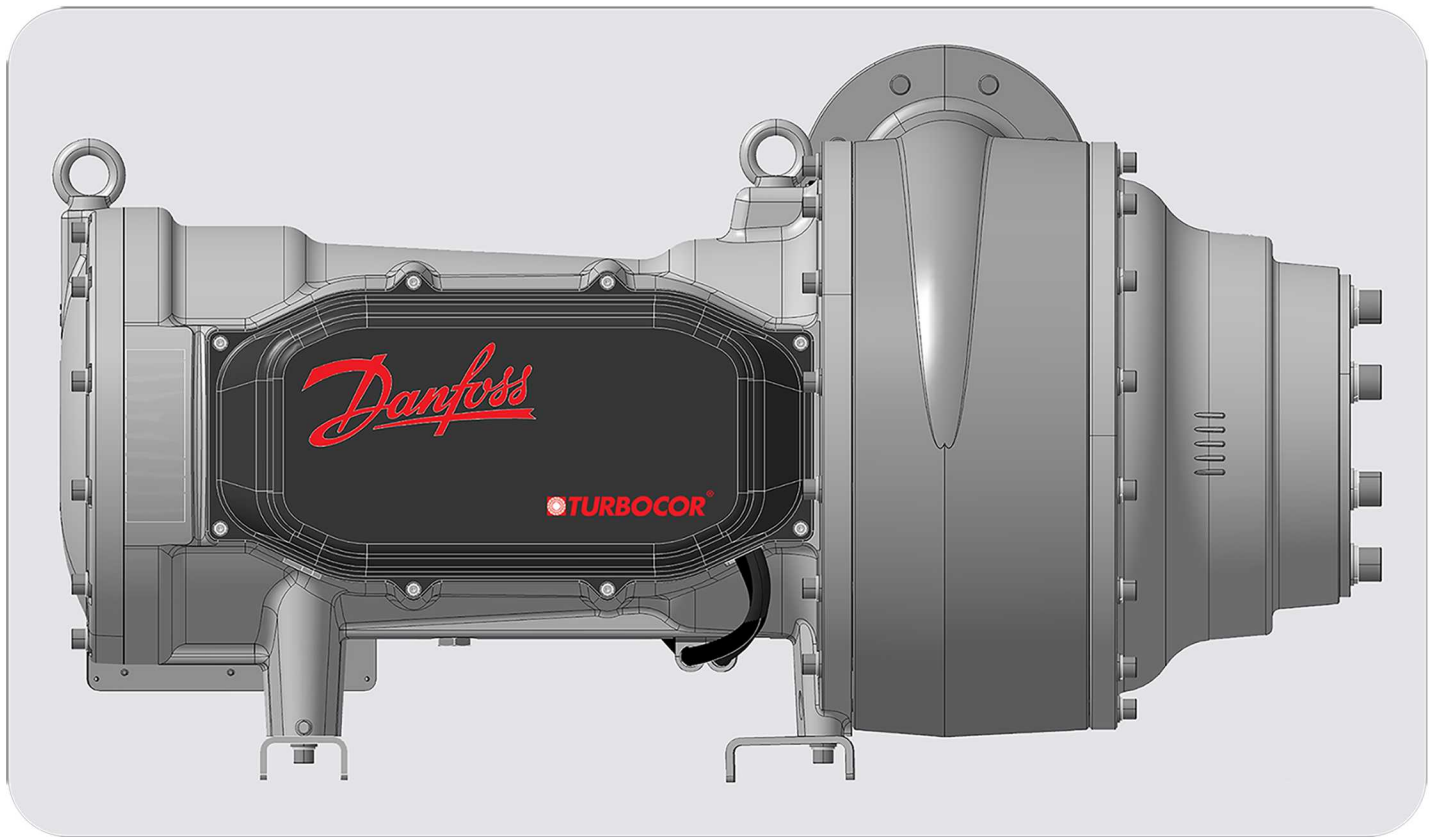


Spare Parts Selection Guide - Revision D

Danfoss Turbocor® VTT and VTX Series Centrifugal Compressors





THIS PAGE INTENTIONALLY LEFT BLANK

Table of Contents

- Table of Contents** **3**
- Chapter 1.0 Introduction** **11**
 - 1.1 PDF Navigation 11
 - 1.2 Table Organization 11
 - 1.3 Organization of this Manual 14
- Chapter 2.0 VTT/VTX Compressor Module Components** **15**
 - 2.1 External Components 15
 - 2.1.1 IFV Pipe Assembly 17
 - 2.1.2 IFV Cable 18
 - 2.1.3 IFV Actuator 19
 - 2.1.4 End Cap Assembly 20
 - 2.1.5 Pressure - Temperature Sensor Discharge 21
 - 2.1.6 P/T Sensors Harness 22
 - 2.1.7 Pressure - Temperature Sensor Suction 23
 - 2.1.8 Economizer Blank 24
 - 2.1.9 Motor Cooling Electronic Expansion Valve 25
 - 2.1.10 Motor Cooling Exit 26
 - 2.1.11 Motor Cooling Valve Cable 27
 - 2.1.12 O-Ring Replacement Kits - VTT 28
 - 2.1.13 O-Ring Replacement Kits - VTX 29
 - 2.2 Internal Components 30
 - 2.2.1 Stator Cooling Temperature Sensor 31
 - 2.3 IGV End Assembly 32
 - 2.3.1 IGV Drive Assembly 33
 - 2.3.2 IGV Housing 34
 - 2.3.3 IGV Throat 35
 - 2.3.4 IGV Worm Gear and Motor 36
 - 2.3.5 Hermetic Feedthrough IGV 4-Pin 37
 - 2.4 Service Side 38
 - 2.4.1 Rear Bearing Power Feedthrough 40
 - 2.4.2 Front Bearing Power Feedthrough 41
 - 2.4.3 Rear Bearing Sensor Feedthrough 42
 - 2.4.4 Front Bearing Sensor Feedthrough 43
 - 2.4.5 Service Electronics 44
 - 2.4.6 Cavity Temperature Sensor 45
 - 2.4.7 Motor Temperature Sensor Cable 46



| | |
|---|-----------|
| 2.4.8 Front Bearing Sensor Cable | 47 |
| 2.4.9 Rear Bearing Sensor/ Motor Sensor Cable | 48 |
| 2.4.10 250 V DCDC- PWM Cable | 49 |
| 2.4.11 CCM-CIM 24V Cable | 50 |
| 2.4.12 DC-DC-CCM 24 V Cable | 51 |
| 2.4.13 CCM-CIM Cable | 52 |
| 2.4.14 CCM-VFD Cable | 53 |
| 2.4.15 Service Side Cover | 54 |
| 2.5 Power Side | 55 |
| 2.5.1 Motor Terminal Block | 56 |
| 2.5.2 Spacer - Bus Bar | 57 |
| 2.5.3 Bracket Conduit | 58 |
| 2.5.4 Tower Plate | 59 |
| 2.5.5 Tower Terminal Block Insulation | 60 |
| 2.5.6 Motor Power Feedthrough | 61 |
| 2.5.7 Power Cover Plate | 62 |
| 2.5.8 Motor Power Cover | 63 |
| Chapter 3.0 VFD Components | 65 |
| 3.1 VFD External Components | 65 |
| 3.1.1 VFD Pressure Control Valve Cable | 66 |
| 3.1.2 VFD DC-DC Cable | 67 |
| 3.1.3 VFD Orifice | 68 |
| 3.1.4 VFD Valve | 69 |
| 3.1.5 VFD Door Vent and Fan | 70 |
| 3.2 VFD Internal Components Level 1 | 71 |
| 3.2.1 Control Panel Cradle | 72 |
| 3.2.2 Control Panel | 73 |
| 3.2.3 Control Card | 74 |
| 3.2.4 Air Baffle | 75 |
| 3.2.5 Mains Shield | 76 |
| 3.2.6 Cable Clamp | 77 |
| 3.2.7 Mixing Fan | 78 |
| 3.2.8 RFI Card | 79 |
| 3.2.9 Heatsink Fan | 80 |
| 3.2.10 Gland Plate | 81 |
| 3.3 VFD Internal Components Level 2 | 82 |
| 3.3.1 Control Card to Power Card Cable | 83 |

| | |
|--|------------|
| 3.3.2 Power Card to Gate Drive Cable | 84 |
| 3.3.3 Power Card to Door Fan Cable | 85 |
| 3.3.4 Power Card to HF/ RFI Cable | 86 |
| 3.3.5 DC Bus to Power Card Cable | 87 |
| 3.3.6 IGBT Gate Signal Cable | 88 |
| 3.3.7 IGBT Temp to Gate PCA Cable | 89 |
| 3.3.8 Gate Drive to Inrush Cable | 90 |
| 3.3.9 Inrush to SCR Gate Cable | 91 |
| 3.3.10 Motor Terminal Insulation | 92 |
| 3.3.11 Motor Terminal Bus Bar | 93 |
| 3.3.12 Mains Terminal Insulation | 94 |
| 3.3.13 Main Fuse | 95 |
| 3.3.14 Mains Bus Bar | 96 |
| 3.3.15 Power Card | 97 |
| 3.4 VFD Internal Components Level 3 | 98 |
| 3.4.1 Inrush Card | 99 |
| 3.4.2 Gate Drive Card | 100 |
| 3.4.3 Balance/HF Card | 101 |
| 3.4.4 Gate Drive Support Bracket | 102 |
| 3.4.5 Inrush Card Support Bracket | 103 |
| 3.4.6 Capacitor Bank DC Bus Bar | 104 |
| 3.4.7 Capacitor Bank Bus Bar | 105 |
| 3.4.8 IGBT Capacitor 1250V | 106 |
| 3.4.9 DC Link Coil Cover | 107 |
| 3.4.10 Current Sensor | 108 |
| 3.5 VFD Internal Components Level 4 | 109 |
| 3.5.1 DC Bus Capacitor | 110 |
| 3.5.2 IGBT Module | 111 |
| 3.5.3 IGBT Capacitor | 112 |
| 3.5.4 SCR AC Input Bus Bar | 113 |
| 3.5.5 SCR DC Output Bus Bar | 114 |
| 3.5.6 SCR to DC Coil Bus Bar | 115 |
| 3.5.7 IGBT Bus Bar | 116 |
| 3.5.8 DC Link Coil | 117 |
| 3.5.9 SCR Rectifier | 118 |
| Chapter 4.0 External Modules/Components | 119 |
| 4.1 Compressor Interface Module (CIM) | 119 |



| | |
|--|------------|
| 4.2 DC-DC Module | 120 |
| 4.3 Cooling Exit Temperature Sensor | 121 |
| Appendix A TurbocorCloud® Kits | 122 |
| A.1 TurbocorCloud Gateway | 122 |
| A.2 SIM Card | 123 |
| A.3 Antenna | 124 |
| Appendix B Recently Obsoleted Kit Reference | 125 |

List of Changes

| Revision | Date | Page | Description of Change |
|-----------------|-------------|--------------------------|---|
| C.2 | 3-09-2021 | Pages: 31, 48-52, and 57 | Updated/added various kits |
| C.3 | 4-7-2022 | Chapter 4 | Added Cooling Exit Temperature Sensor kit |
| | | 53 | Obsoleted 110082 |
| C.3 | 4-7-2022 | 117 | Obsoleted 110110 |
| C.4 | 6-13-2022 | 44 | Obsoleted 110109 |
| D | 6-24-2026 | | Major Revision C update |
| D | 6-24-2026 | 21 | Added new P/T Discharge Sensor |
| D | 6-24-2026 | 42 | Updated Rear Bearing Sensor Feedthrough image and part number |
| D | 6-24-2026 | 121 | Updated part number of temperature sensor |



THIS PAGE INTENTIONALLY LEFT BLANK

Proprietary Notice

Copyright, Limitations of Liability and Revision Rights.

This page contains proprietary information to Danfoss LLC. This publication is protected under the Copyright laws of the United States of America (USA) and most other countries. This work is owned by Danfoss LLC, and was published as of the most recent revision of this publication, as indicated on the Title page of this document. This document is for the use Danfoss LLC customers and prospective customers only. Any use beyond that is prohibited.

Tests have demonstrated that equipment produced according to the guidelines provided in this manual will function properly, however Danfoss LLC cannot guarantee the equipment to work in every physical, hardware or software environment.

The guidelines provided in this manual are provided "AS-IS" without any warranty of any kind, either express or implied, including, without limitation, any implied warranties of condition, uninterrupted use, merchantability, fitness for a particular purpose.

In no event shall Danfoss LLC be liable for direct, indirect, special, incidental or consequential damages arising out of the manufacture, use, or the inability to manufacture or use information contained in this manual, even if advised of the possibility of such damages. In particular, Danfoss LLC is not responsible for any costs, including but not limited to those incurred as a result of lost profits or revenue, loss of damage or equipment, loss of computer programs, loss of data, the costs to substitute these, or any claims by third parties. In any event, the total aggregate liability for all damages of any kind and type (regardless of whether based in contract or tort) of Danfoss LLC, shall not exceed the purchase price of this product.

Danfoss LLC reserves the right to revise the publication at any time and to make changes to its contents without prior notice or any obligation to notify former or present users of such revisions or changes.

Danfoss LLC
1769 East Paul Dirac Drive
Tallahassee, Florida 32310
USA
Phone 1-850-504-4800
Fax 1-850-575-2126
<http://turbocor.danfoss.com>

Encounter an error or see an opportunity for improvements while reading this manual? Email us at turbocor.contact@danfoss.com with a brief description.

* Subject to change without notice.

* Danfoss Turbocor's commitment to excellence ensures continuous product improvements.



THIS PAGE INTENTIONALLY LEFT BLANK

Chapter 1.0 Introduction

1.1 PDF Navigation

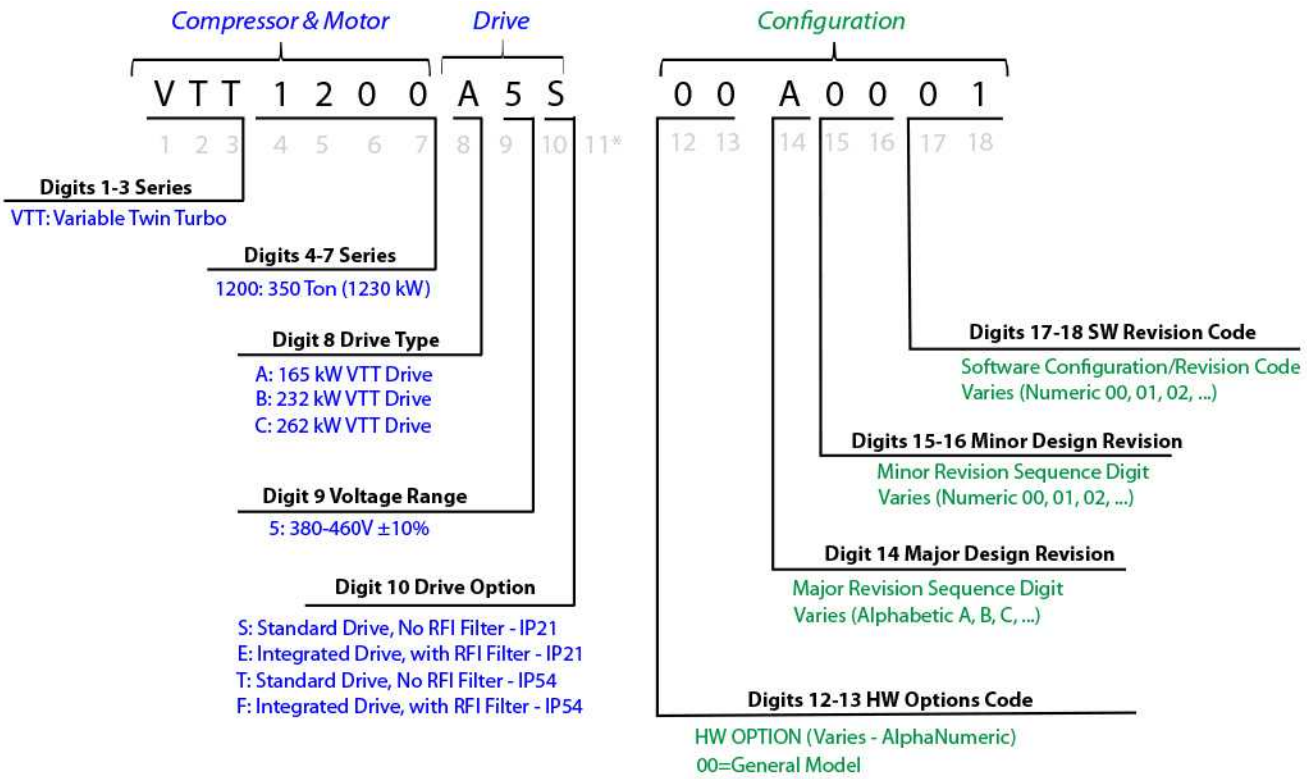
This document contains PDF hyperlinks for easy navigation. Clicking on items in the table of contents will take you to the page it references. Throughout the manual there is blue hyperlink text. Clicking on blue text will take you to the page or section it references in this document.

1.2 Table Organization

Some tables contain gray rows, as depicted below. This is used to indicate secondary spare part kits. These kits will not replace the entire assembly, but only a piece, which is detailed in the comment column.

| DESCRIPTION | PART NO. | MAJOR REV | COMMENT |
|---------------|----------|-----------|---|
| KIT- ASSEMBLY | xxxxxx | X | Includes all required fasteners and O-rings |
| KIT- O-RING | xxxxxx | X | O-ring only |

Figure 1-1 VTT Compressor Portion Nomenclature Revision A and B



* For New compressors, digit 11 is a hyphen "-", For Refurbished compressors, digit 11 is an "X".



Figure 1-2 VTT Compressor Revision C / VTX Compressor Portion Nomenclature

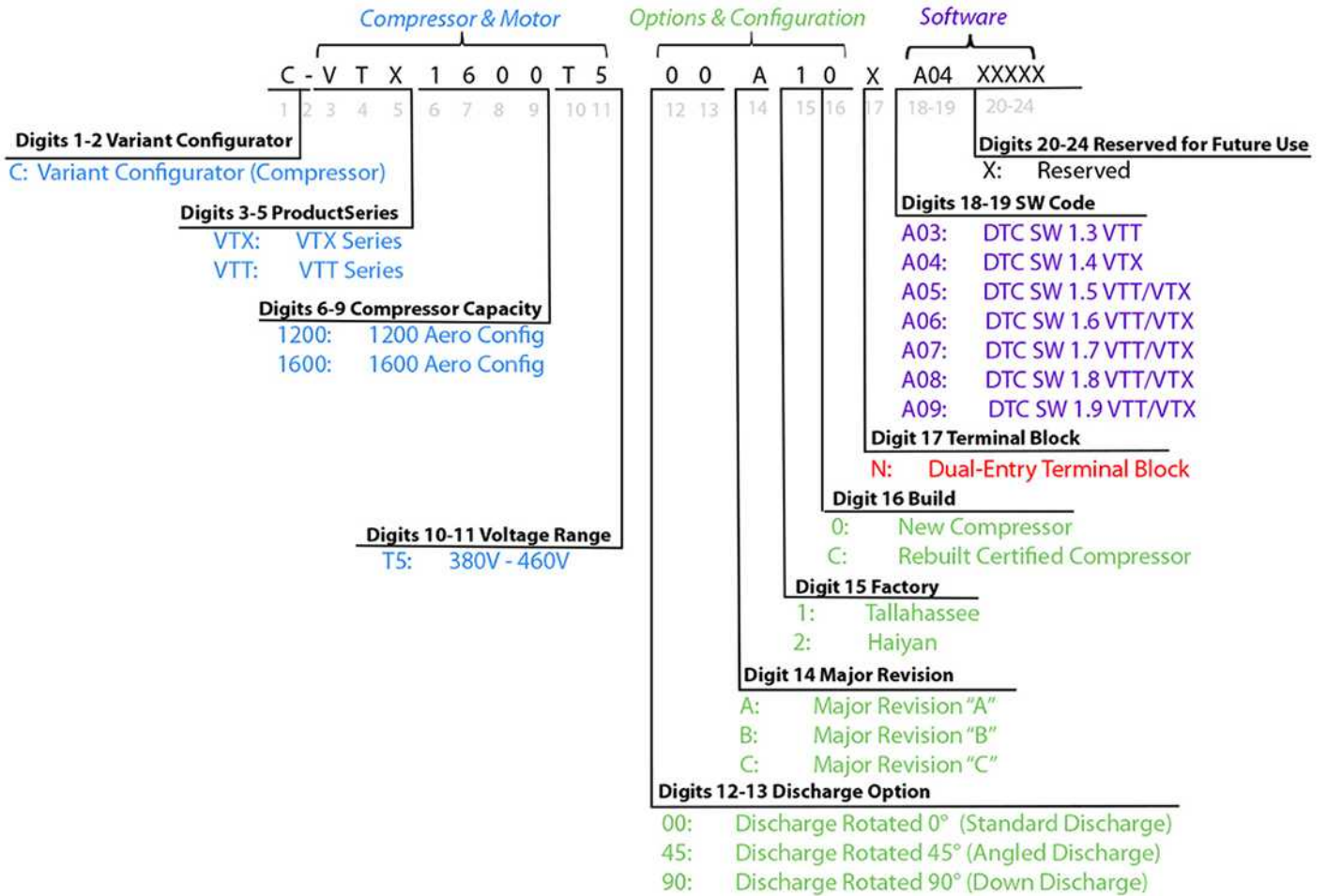


Figure 1-3 VTT/VTX VFD Portion Nomenclature

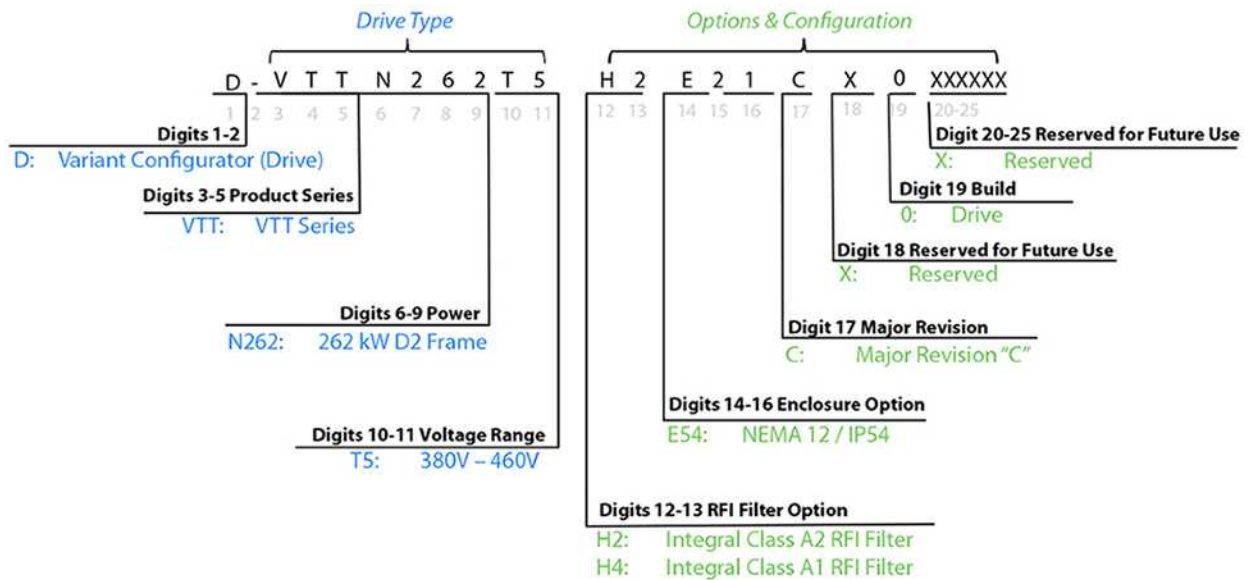
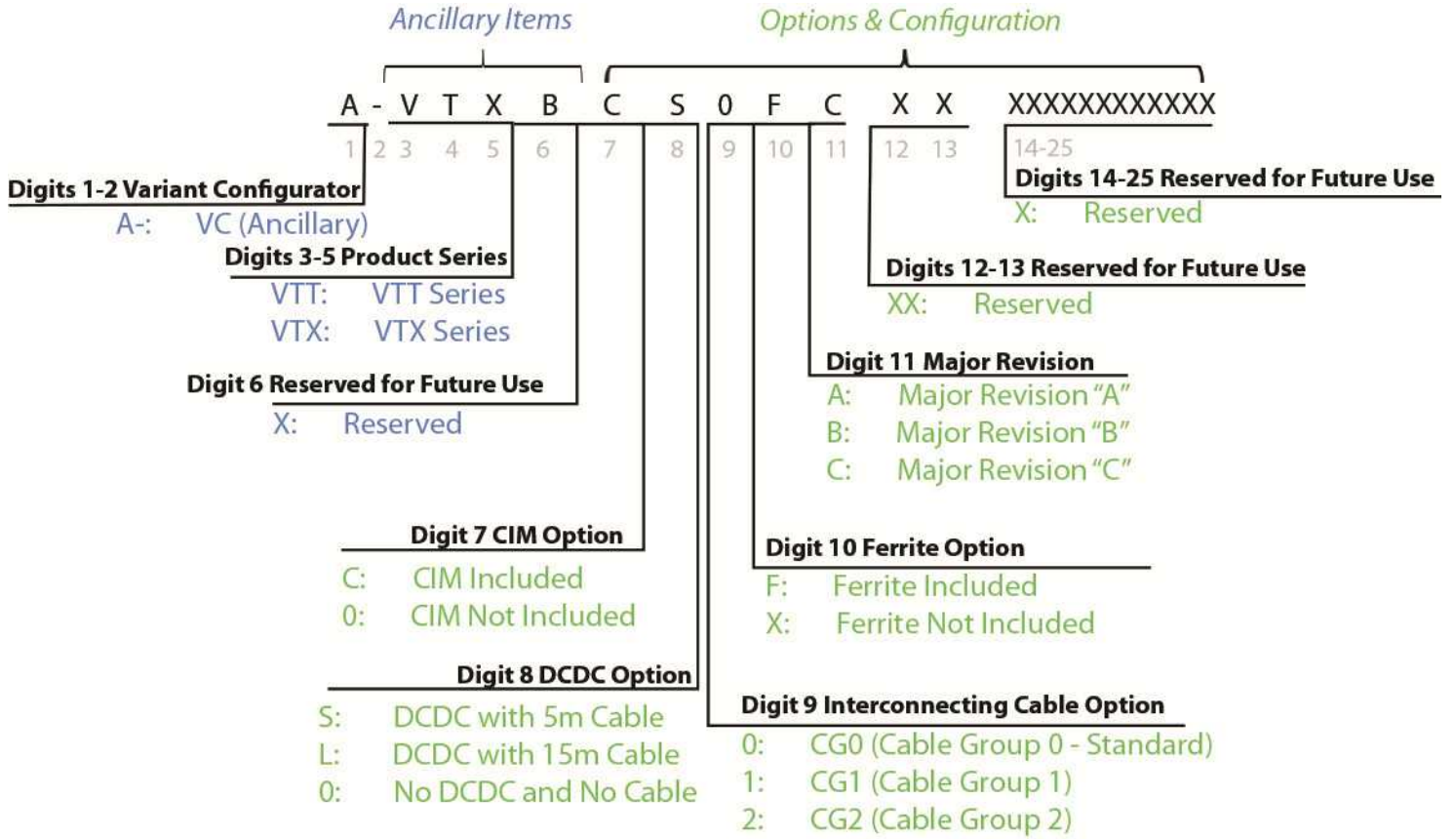


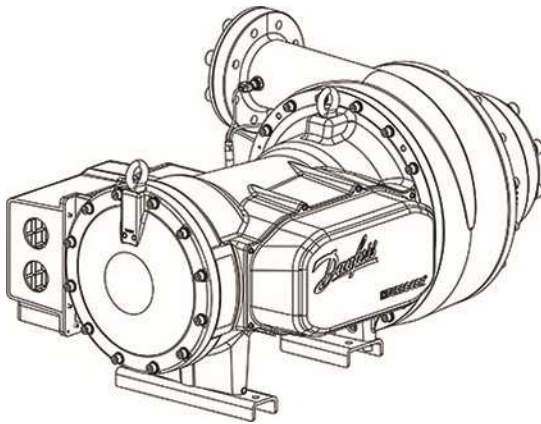
Figure 1-4 VTT/VTX Ancillary and Accessory Items Nomenclature Revision



1.3 Organization of this Manual

Spare part kits are differentiated using compressor model, major revision, and part number, which can be found on your compressor's name plate. Refer to the product nomenclature on the following page to determine which major revision your compressor falls under. Knowing the compressor model and major revision of your compressor are essential to using this document effectively. Please refer to the VTT/VTX Product Nomenclature to identify which major revision your product falls under.

This manual is organized into three main sections. The sections include VTT/VTX Compressor Module Components, VFD Components, and External Modules/Components. Then each section is divided into more specific segments (e.g., external components, internal components, IGV end assembly).



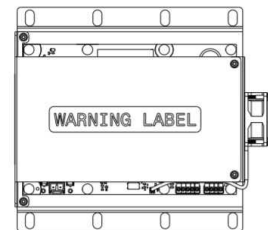
Chapter 1.0 VTT/VTX Compressor Module Components



Chapter 1.0 VFD Components



Chapter 1.0 External Modules



Chapter 2.0 VTT/VTX Compressor Module Components

2.1 External Components

This section focuses on the spare part kits that are visible on the outside of the compressor module and the related O-ring replacement kits.

VTT Compressor Module

Figure 2-1 VTT Service Side Kits

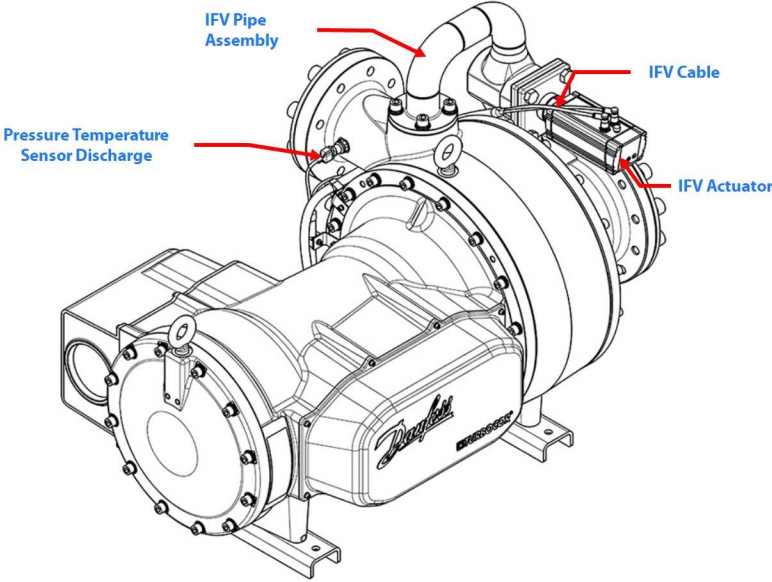
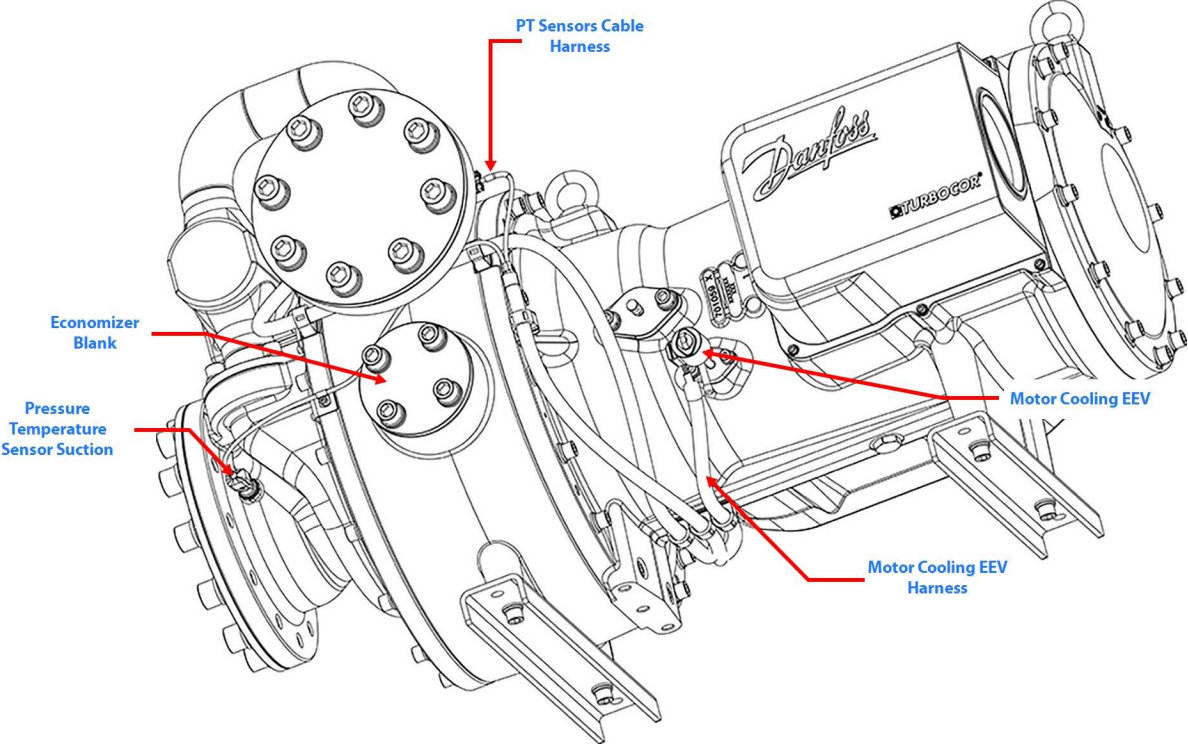


Figure 2-2 VTT Power Side Kits



VTX Compressor Module

Figure 2-3 VTX Service Side Kits

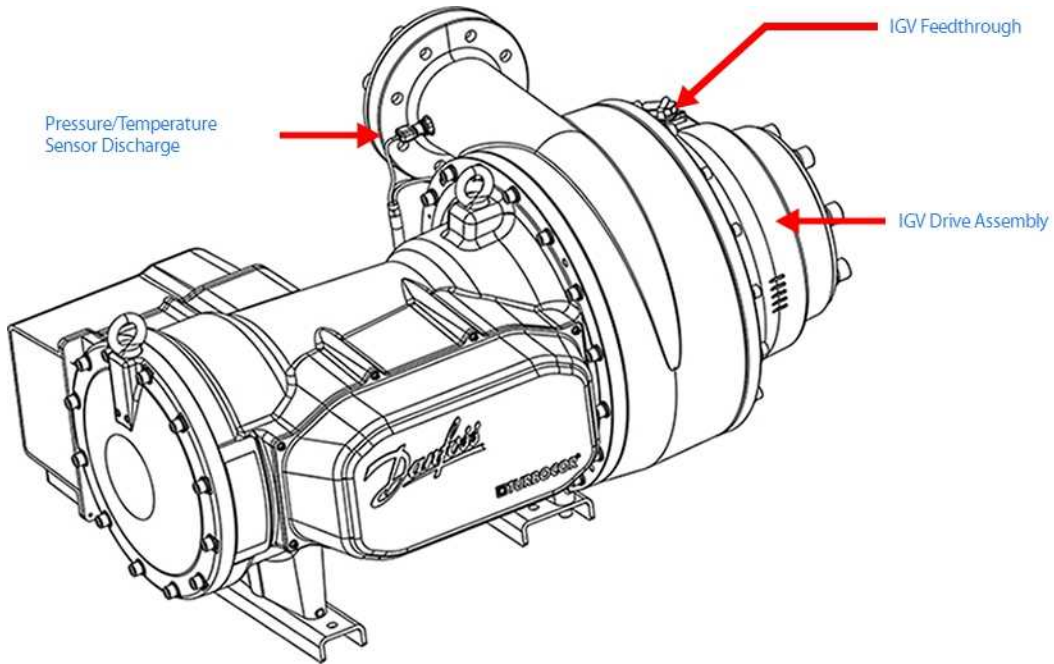
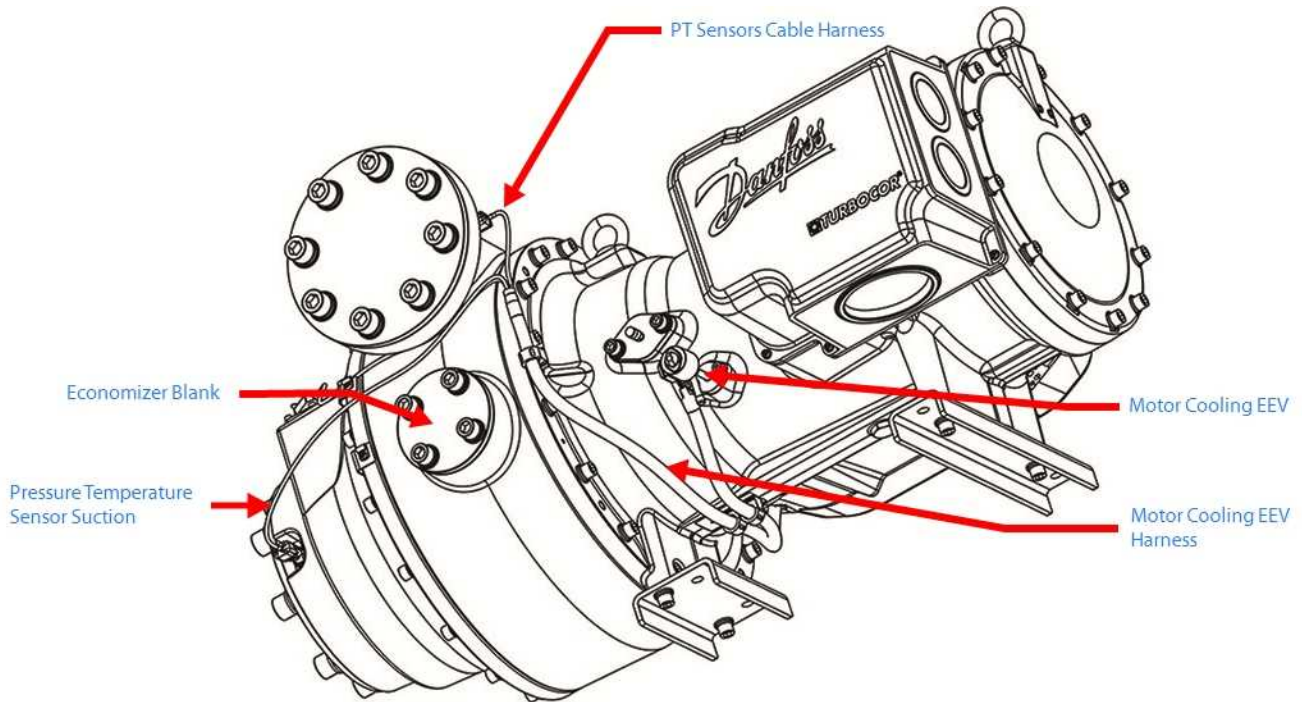
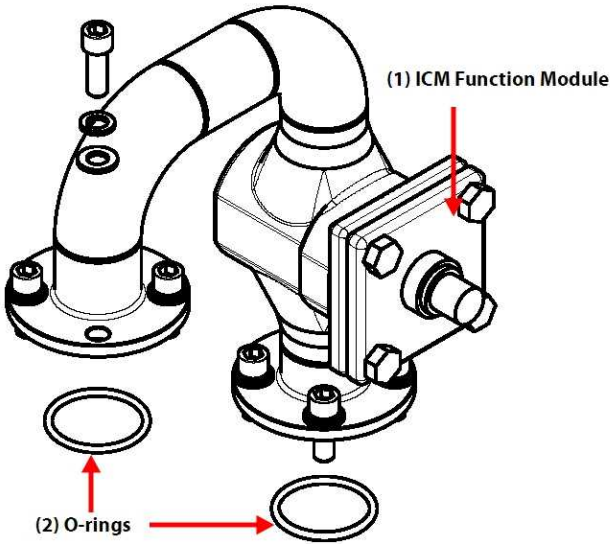


Figure 2-4 VTX Service Side Kits

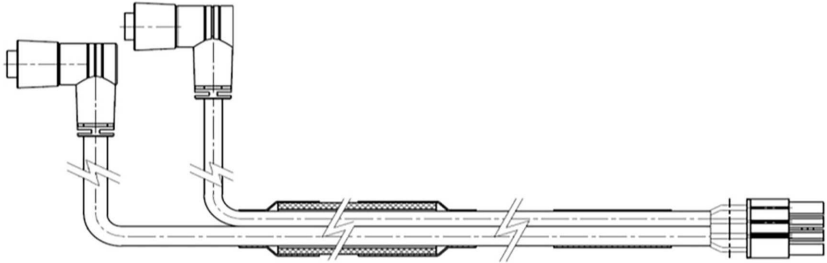


2.1.1 IFV Pipe Assembly



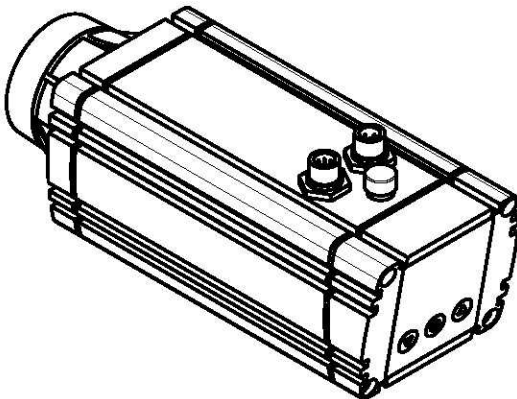
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------|----------|---|-----------|---|
| IFV PIPE ASSY | 110066 | <ul style="list-style-type: none"> VTT1200 | All | Includes fasteners and O-rings required to replace IFV assembly |
| (1) IFV ICM FUNCTION MODULE | 110067 | <ul style="list-style-type: none"> VTT1200 | All | Includes ICM function module only |
| (2) O-RING, INTRAFLOW VALVE | 110073 | <ul style="list-style-type: none"> VTT1200 | All | Includes fasteners and O-rings required to replace IFV assembly |

2.1.2 IFV Cable



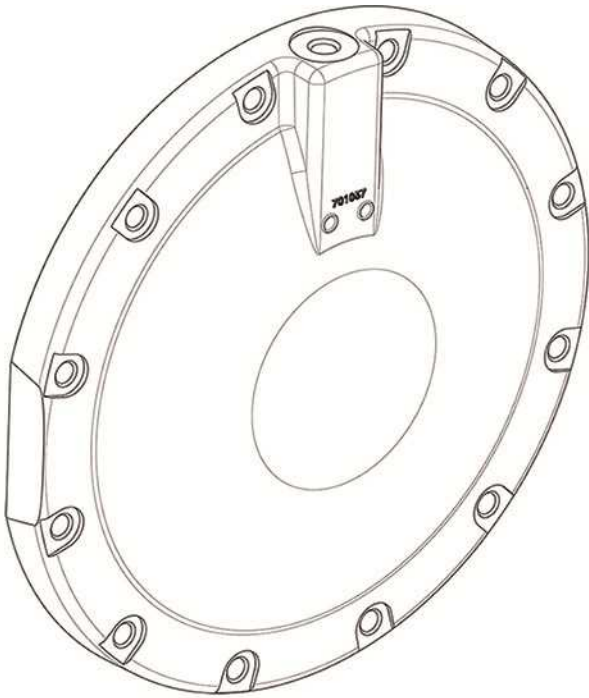
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------|----------|---|-----------|------------|
| CABLE, IFV | 110063 | <ul style="list-style-type: none"> VTT1200 | All | Cable only |

2.1.3 IFV Actuator



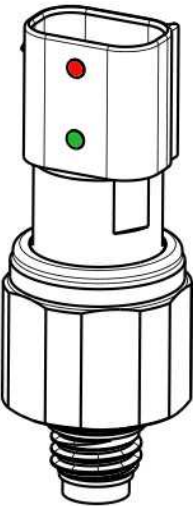
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------|----------|---|-----------|---------------|
| IFV ACTUATOR | 110072 | <ul style="list-style-type: none">VTT1200 | All | Actuator Only |

2.1.4 End Cap Assembly



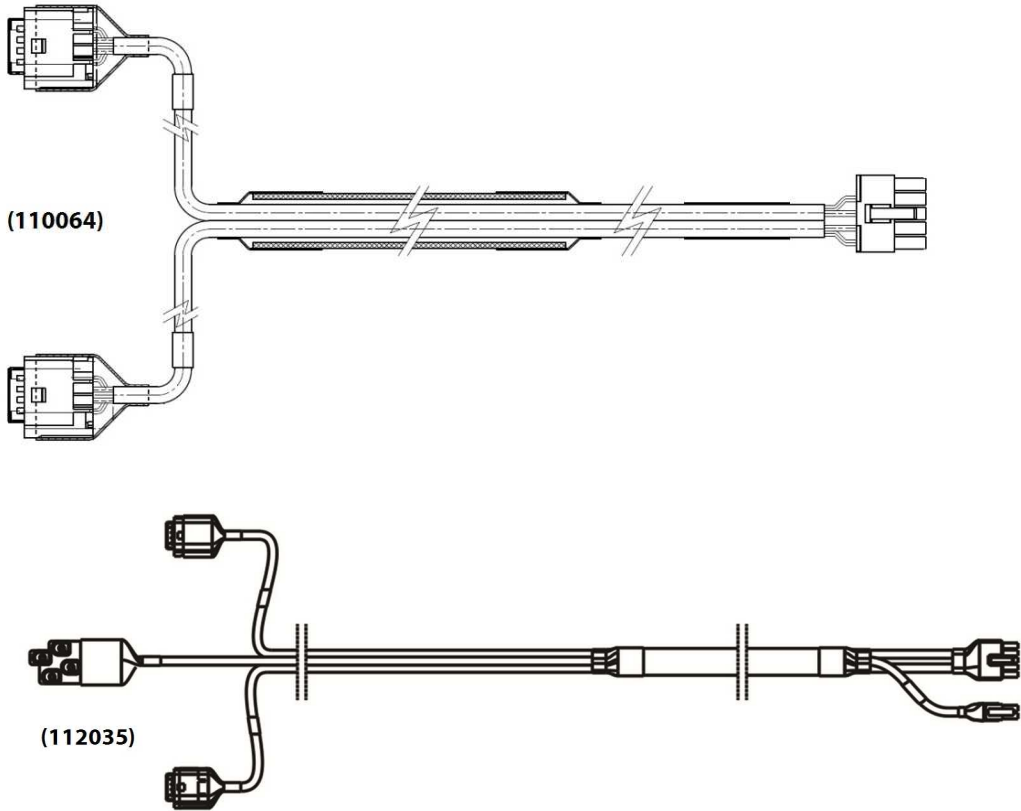
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------|----------|--|-----------|---|
| END CAP ASSEMBLY | 199K2028 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes End Cap, O-ring, and fasteners |
| O-RING, END CAP | 110112 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes O-ring and fasteners |

2.1.5 Pressure - Temperature Sensor Discharge



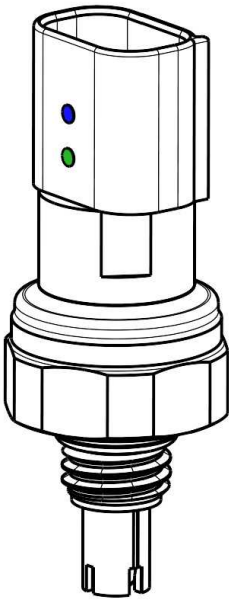
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------|----------|--|-----------|--|
| PRESSURE/TEMP SENSOR, DISCHARGE | 100037-2 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes sensor with O-ring, marked with red and green dot |
| O-RING, P/T SENSORS | 199K0015 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes four O-rings |

2.1.6 P/T Sensors Harness



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------|----------|---|-----------|------------|
| HARNESS, P/T SENSORS | 110064 | <ul style="list-style-type: none"> VTT1200 | All | Cable only |
| HARNESS, P/T SENSORS | 112035 | <ul style="list-style-type: none"> VTX1600 | All | Cable only |

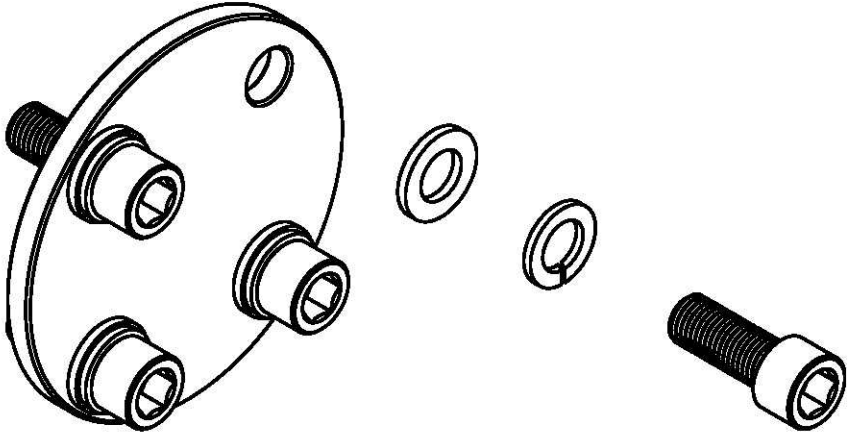
2.1.7 Pressure - Temperature Sensor Suction



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------|----------|--|-----------|--|
| SENSOR, PRESS/TEMP SUCTION | 110081 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes sensor with O-ring, marked blue |
| O-RING, P/T SENSORS | 199K0015 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes four O-rings |

2.1.8 Economizer Blank

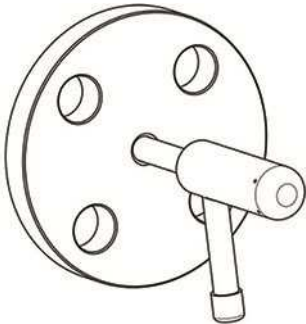
The Economizer Blank covers the economizer port when the economizer option is not utilized on the compressor.



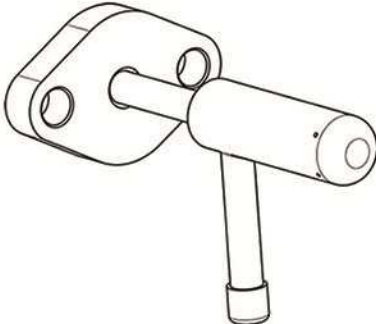
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------|----------|--|-----------|--|
| ECONOMIZER BLANK | 110092 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes all required fasteners and O-ring |
| O-RING, ECONOMIZER | 110079 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes all required fasteners and O-ring |

2.1.9 Motor Cooling Electronic Expansion Valve

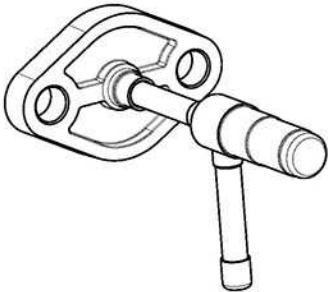
110055



110096

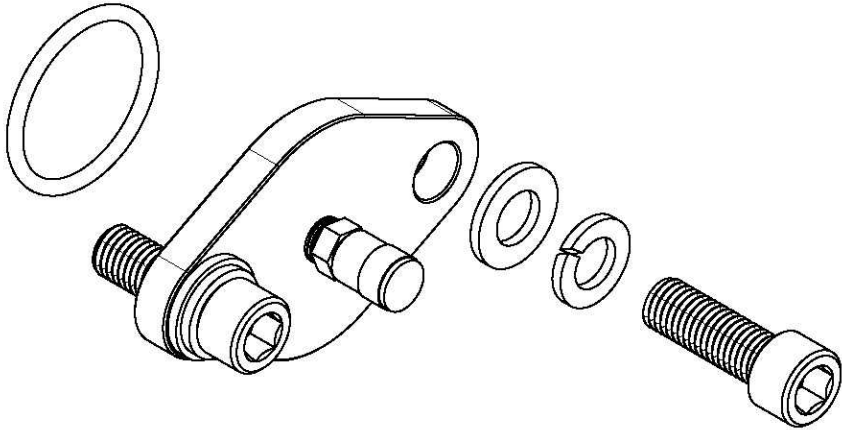


199K2008



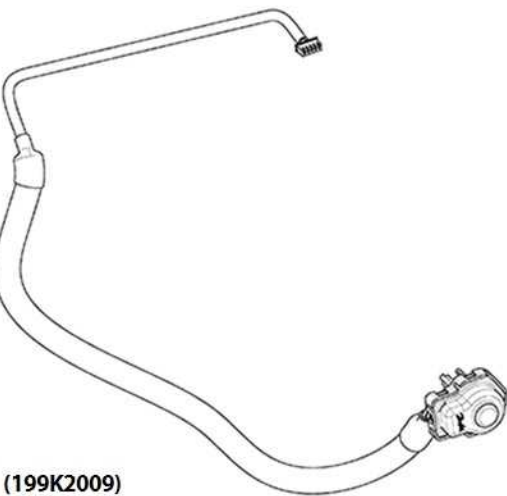
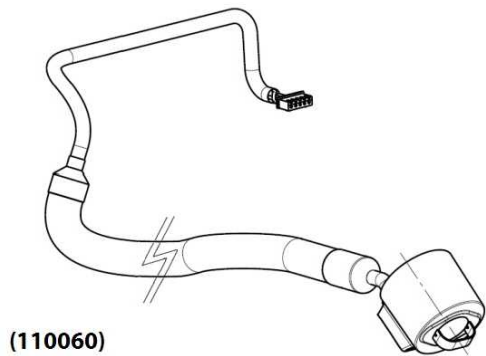
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------|----------|------------|-----------|--|
| MOTOR COOLING EEV | 110055 | • VTT1200 | A | Includes all required fasteners and O-ring |
| MOTOR COOLING EEV | 110096 | • VTT1200 | B & C | Includes all required fasteners and O-ring |
| MOTOR COOLING EEV | 110096 | • VTX1600 | A & B | Includes all required fasteners and O-ring |
| MOTOR COOLING EEV | 199K2008 | • VTX1600 | C | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING INLET | 110074 | • VTT1200 | A | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING INLET | 110083 | • VTT1200 | B & C | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING INLET | 110083 | • VTX1600 | All | Includes all required fasteners and O-ring |

2.1.10 Motor Cooling Exit



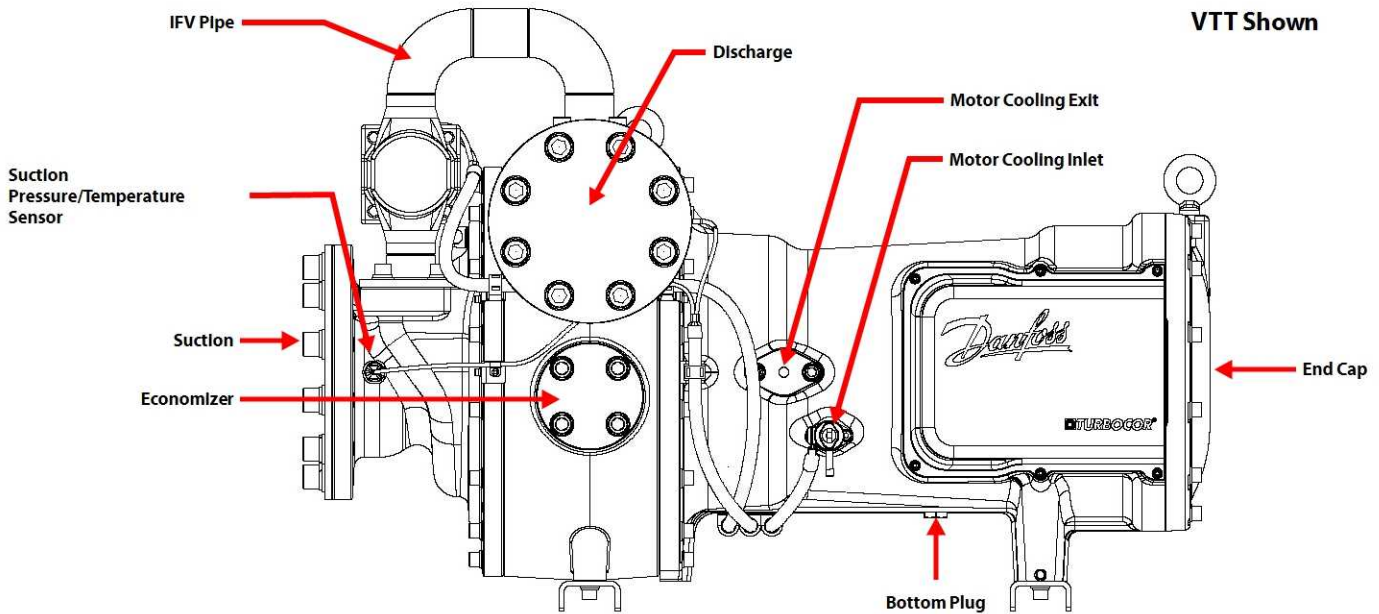
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------|----------|------------|-----------|--|
| MOTOR COOLING EXIT FLANGE | 110097 | • VTT1200 | B & C | Includes all required fasteners and O-ring |
| MOTOR COOLING EXIT FLANGE | 110097 | • VTX1600 | A & B | Includes all required fasteners and O-ring |
| MOTOR COOLING EXIT FLANGE | 199K2012 | • VTX1600 | C | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 110075 | • VTT1200 | A | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 110122 | • VTT1200 | B & C | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 110122 | • VTX1600 | A & B | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 199K2011 | • VTX1600 | C | Includes all required fasteners and O-ring |

2.1.11 Motor Cooling Valve Cable



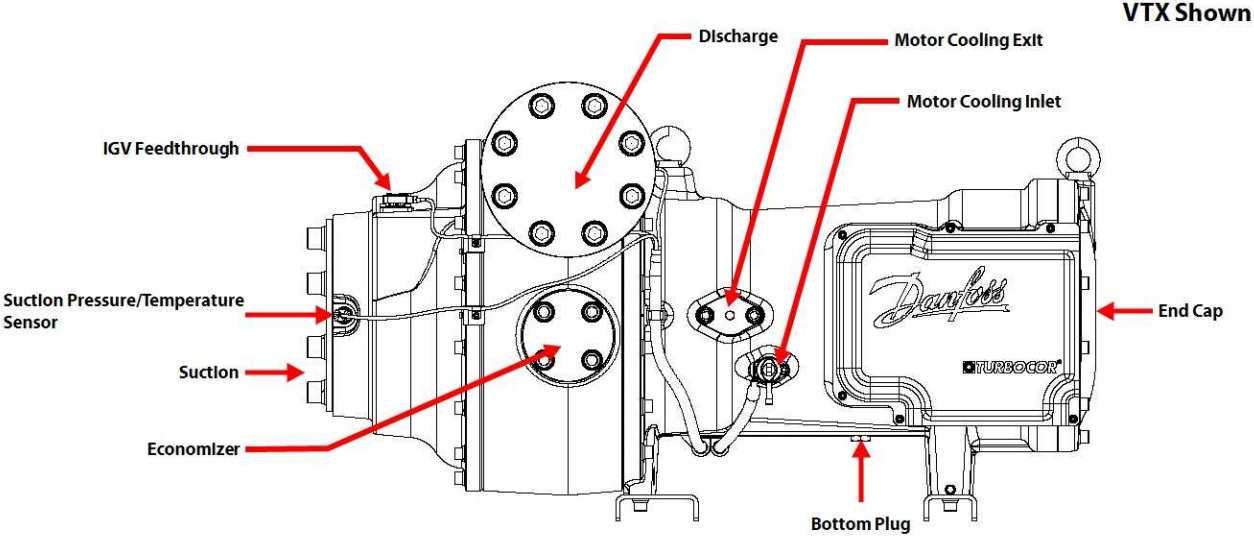
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------|----------|---|-----------|------------|
| CABLE, MOTOR COOLING VALVE | 110060 | <ul style="list-style-type: none"> VTT1200 | All | Cable only |
| CABLE, MOTOR COOLING VALVE | 110060 | <ul style="list-style-type: none"> VTX1600 | A & B | Cable only |
| CABLE, MOTOR COOLING VALVE | 199K2009 | <ul style="list-style-type: none"> VTX1600 | C | Cable only |

2.1.12 O-Ring Replacement Kits - VTT



| APPLIES TO: VTT1200 | | | |
|-----------------------------|----------|-----------|--|
| DESCRIPTION | PART NO. | MAJOR REV | COMMENT |
| O-RING, INTRAFLOW VALVE | 110073 | All | O-rings for IFV Pipe |
| O-RING, P/T SENSORS | 199K0015 | All | Includes four O-rings |
| O-RING, MOTOR COOLING INLET | 110074 | A | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING INLET | 110083 | B & C | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 110075 | A | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 110122 | B & C | Includes all required fasteners and O-ring |
| O-RING, PORTS CONNECTIONS | 110120 | A | Includes the suction, discharge, inlet cooling flange, exit cooling flange, and economizer O-rings |
| O-RING, PORTS CONNECTIONS | 110076 | B & C | Includes the suction, discharge, inlet cooling flange, exit cooling flange, and economizer O-rings |
| O-RING, END CAP | 110112 | All | Includes O-ring and fasteners |
| O-RING, BOTTOM PLUG | 110053 | All | O-ring only |

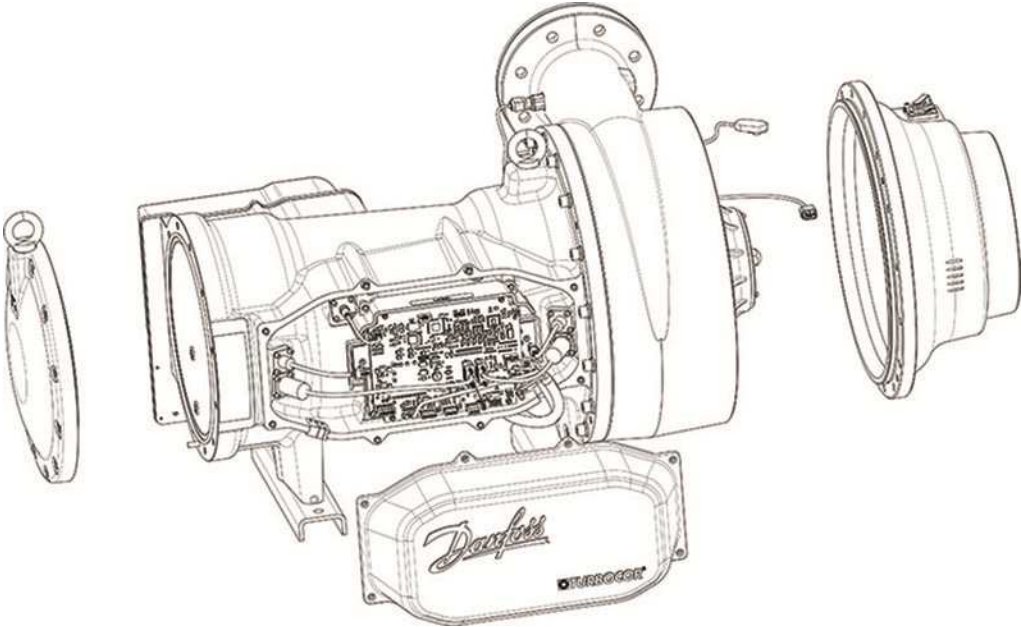
2.1.13 O-Ring Replacement Kits - VTX



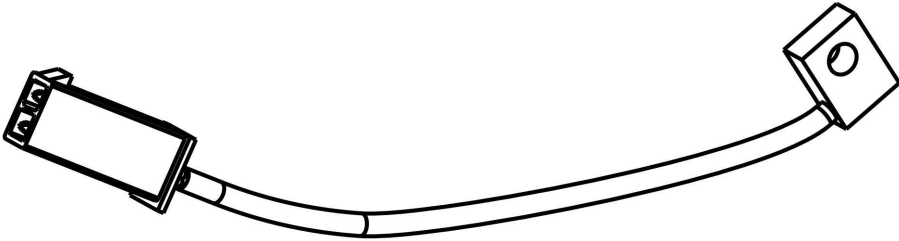
| APPLIES TO: VTX1600 | | | |
|-----------------------------|----------|-----------|--|
| DESCRIPTION | PART NO. | MAJOR REV | COMMENT |
| O-RING, P/T SENSORS | 199K0015 | All | Includes four O-rings |
| O-RING, MOTOR COOLING INLET | 110083 | All | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 110122 | A & B | Includes all required fasteners and O-ring |
| O-RING, MOTOR COOLING EXIT | 199K2011 | C | Includes all required fasteners and O-ring |
| O-RING, PORTS CONNECTIONS | 112036 | A & B | Includes the suction, discharge, inlet cooling flange, exit cooling flange, and economizer O-rings |
| O-RING, PORTS CONNECTIONS | 199K2014 | C | Includes the suction, discharge, inlet cooling flange, exit cooling flange, and economizer O-rings |
| O-RING, END CAP | 110112 | All | Includes O-ring and fasteners |
| O-RING, BOTTOM PLUG | 110053 | All | O-ring only |

2.2 Internal Components

This section focuses on the internal spare part kits available.

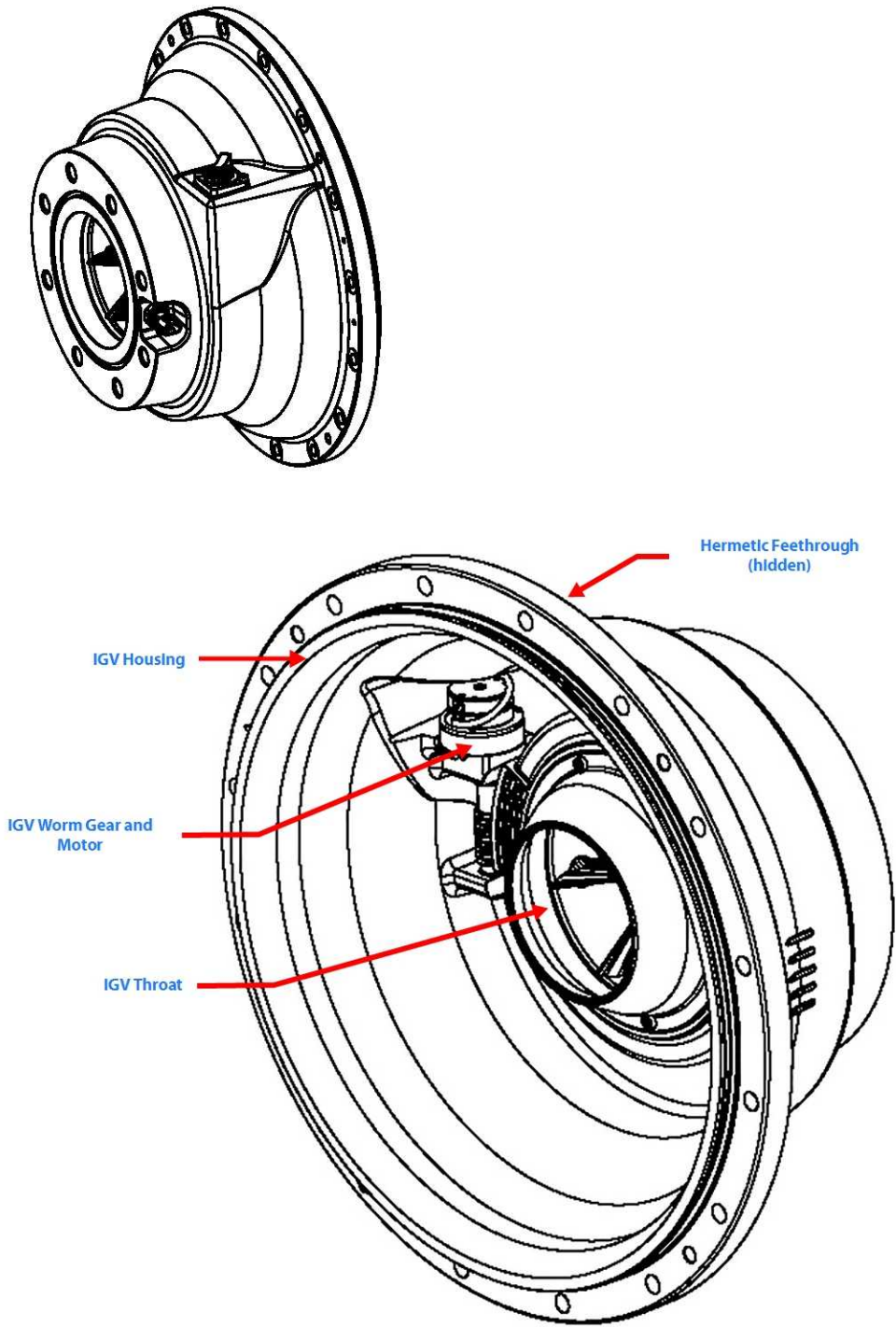


2.2.1 Stator Cooling Temperature Sensor

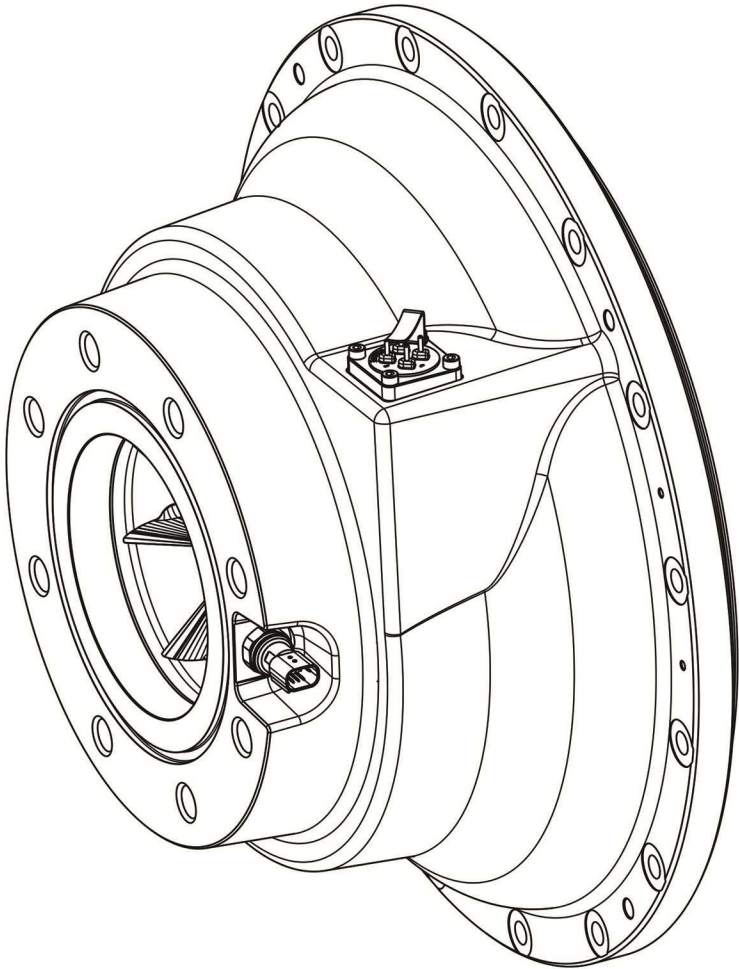


| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------------|----------|--|-----------|---|
| STATOR COOLING TEMPERATURE SENSOR | 110111 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes End Cap O-ring and mounting fastener |
| O-RING, END CAP | 110112 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes O-ring and End Cap fasteners |

2.3 IGV End Assembly

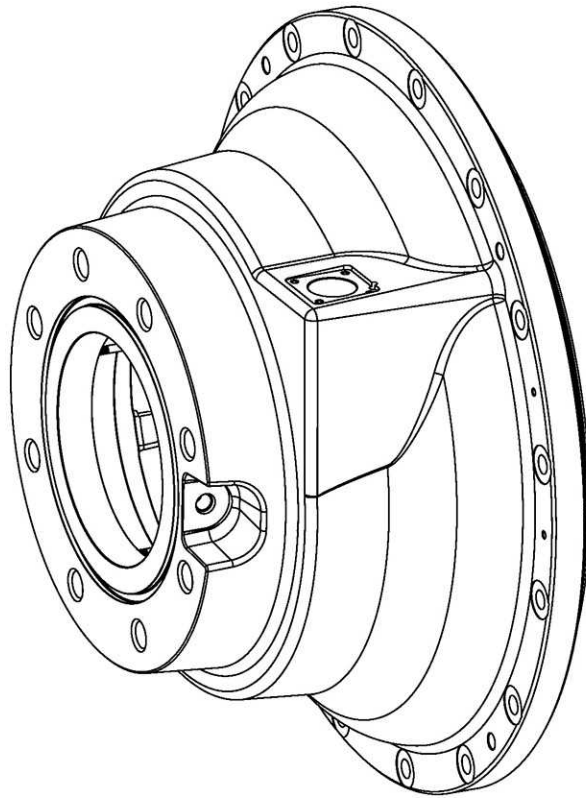


2.3.1 IGV Drive Assembly



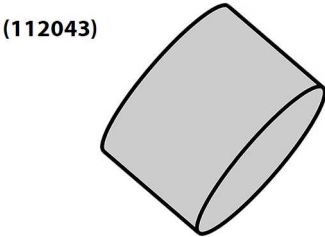
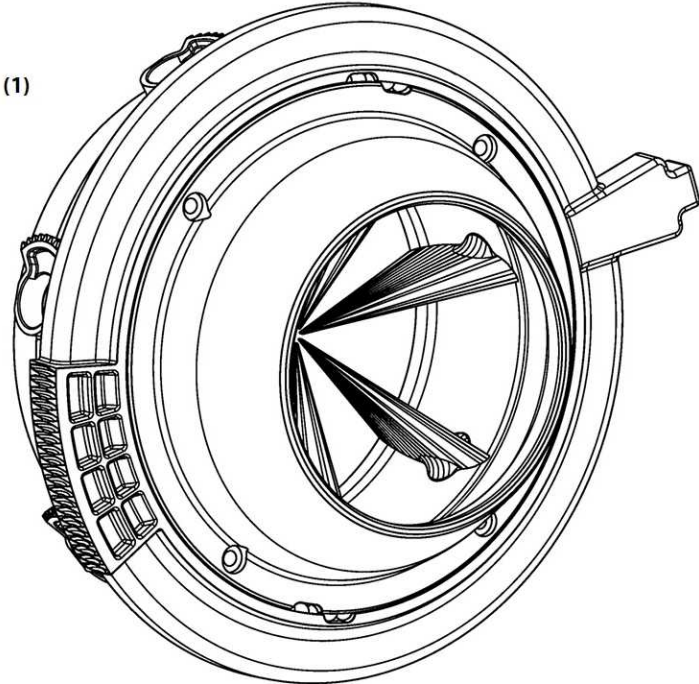
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------|----------|------------|-----------|---|
| IGV DRIVE ASSEMBLY, VT SERIES | 112040 | • VTX1600 | A & B | Includes O-rings and required fasteners |
| IGV DRIVE ASSEMBLY, VT SERIES | 199K2010 | • VTX1600 | C | Includes O-rings and required fasteners |
| O-RING, IGV HOUSING, VT SERIES | 112039 | • VTX1600 | A & B | Includes O-rings and required fasteners |
| O-RING, IGV HOUSING, VT SERIES | 199K2021 | • VTX1600 | C | Includes O-rings and required fasteners |

2.3.2 IGV Housing



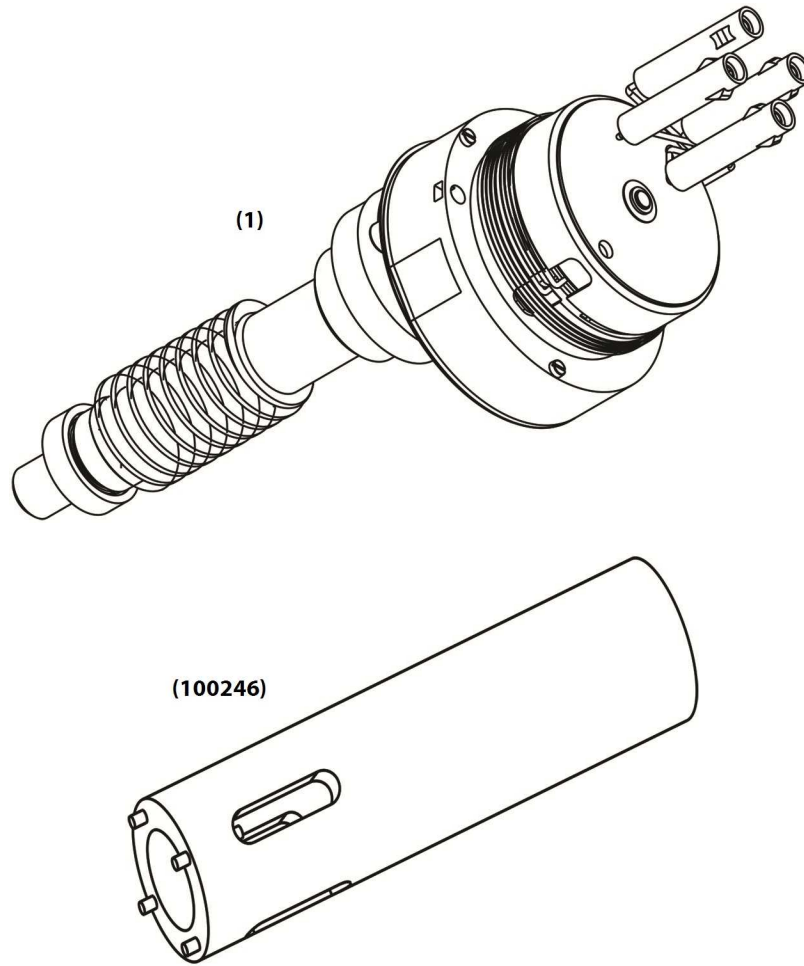
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------|----------|------------|-----------|---|
| IGV - HOUSING - VTX1600 | 112041 | • VTX1600 | A & B | Includes O-rings and required fasteners |
| IGV - HOUSING - VTX1600 | 199K2027 | • VTX1600 | C | Includes O-rings and required fasteners |
| O-RING, IGV HOUSING, VT SERIES | 112039 | • VTX1600 | A & B | Includes O-rings and required fasteners |
| O-RING, IGV HOUSING, VT SERIES | 199K2021 | • VTX1600 | C | Includes O-rings and required fasteners |

2.3.3 IGV Throat



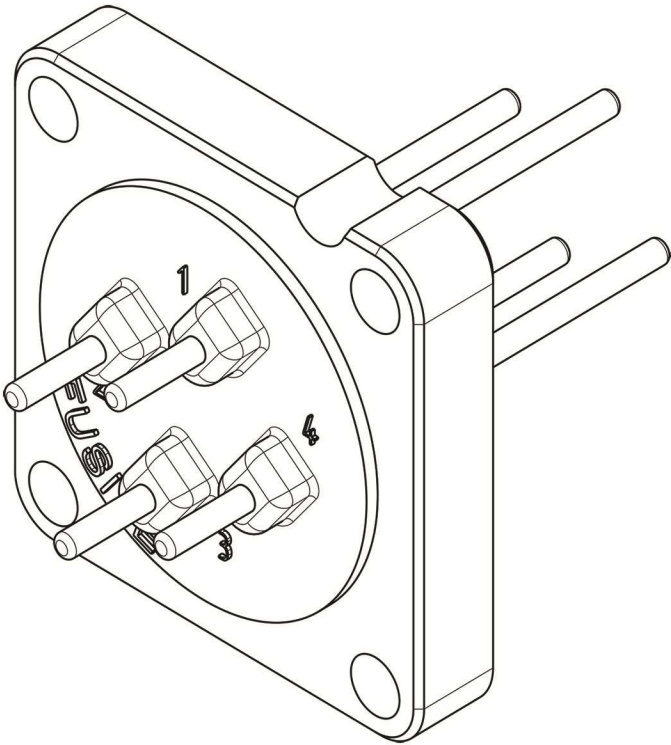
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------|----------|------------|-----------|---|
| (1) IGV THROAT | 112042 | • VTX1600 | A & B | Includes O-rings and required fasteners |
| (1) IGV THROAT | 199K2022 | • VTX1600 | C | Includes O-rings and required fasteners |
| IGV POSITION MAGNET | 112043 | • VTX1600 | All | Includes three magnets - used externally to determine the position of the IGV |

2.3.4 IGV Worm Gear and Motor



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------------|----------|------------|-----------|---|
| IGV WORM GEAR SHAFT REPAIR | 112044 | • VTX1600 | A & B | Contains Worm Gear, Stepper Motor, Bearings, Collars, Clips, O-rings, and fasteners |
| IGV WORM GEAR SHAFT REPAIR | 199K2029 | • VTX1600 | C | Contains Worm Gear, Stepper Motor, Bearings, Collars, Clips, O-rings, and fasteners |
| (1) IGV MOTOR | 112045 | • VTX1600 | A & B | Includes Motor, O-rings, and fasteners |
| (1) IGV MOTOR | 199K2030 | • VTX1600 | C | Includes Motor, O-rings, and fasteners |
| IGV WORM GEAR EXTRACTOR TOOL | 100246 | • VTX1600 | All | Worm Gear Extractor tool only |

2.3.5 Hermetic Feedthrough IGV 4-Pin

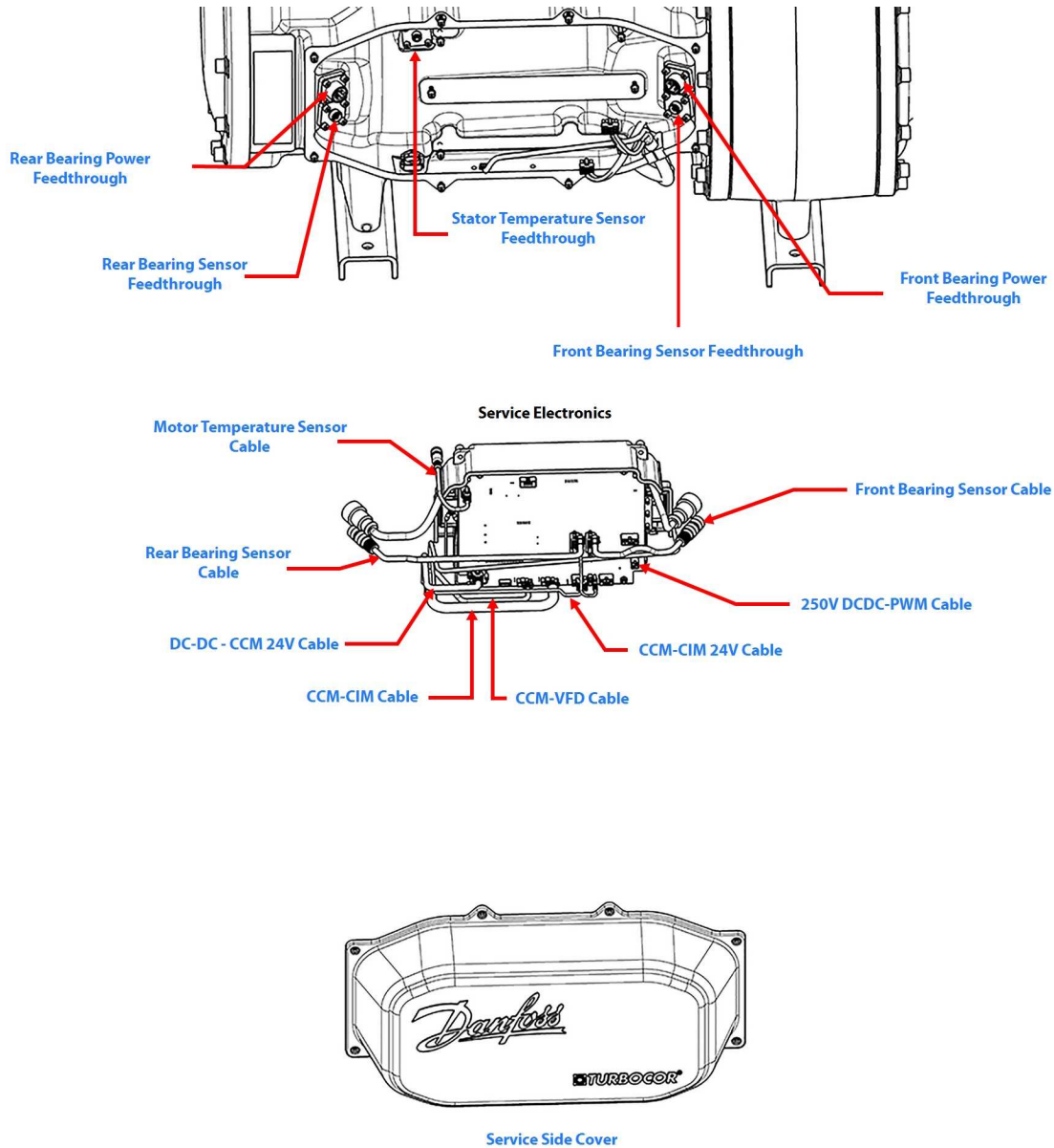


| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------|----------|---|-----------|--|
| IGV FEEDTHROUGH, 4 PIN | 110121 | <ul style="list-style-type: none"> VTX1600 | All | Includes O-ring, clamp, and required fasteners |
| O-RING, IGV FEEDTHROUGH | 112046 | <ul style="list-style-type: none"> VTX1600 | All | Includes O-ring and required fasteners |

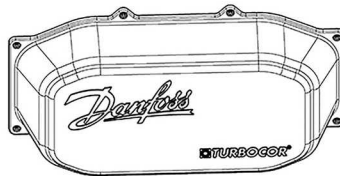
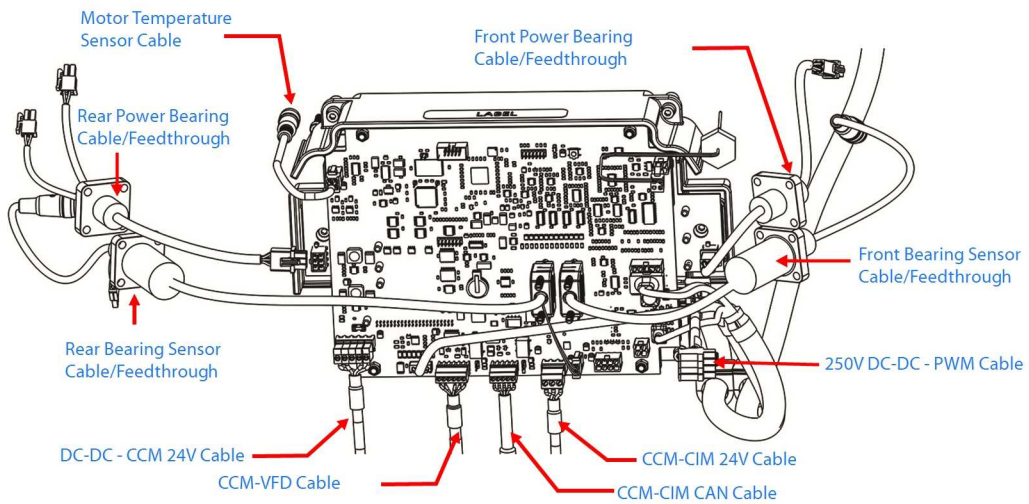
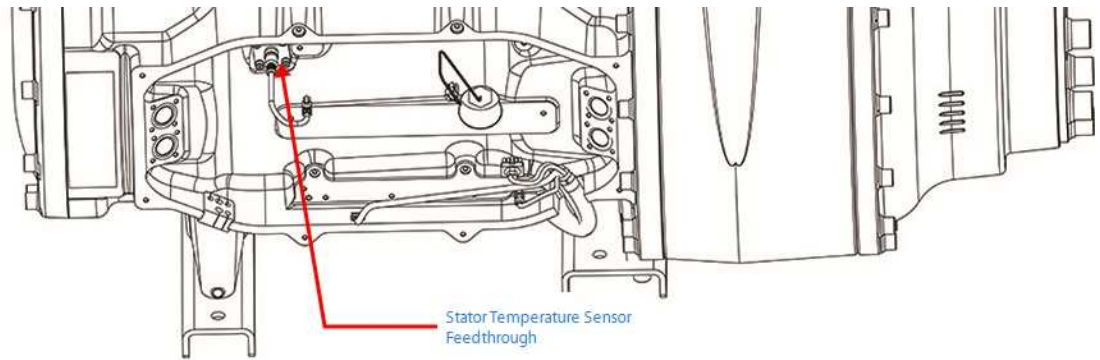
2.4 Service Side

This section focuses on the spare part kits available on the service side of the compressor, underneath and including the Service Side Cover as depicted below.

The below image applies to all VTT and VTX (Pre Revision C Compressors)



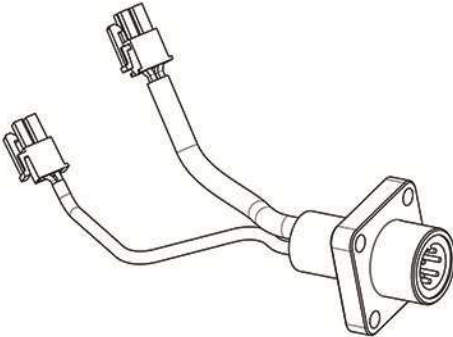
The below image applies to VTX Major Rev C Compressors)



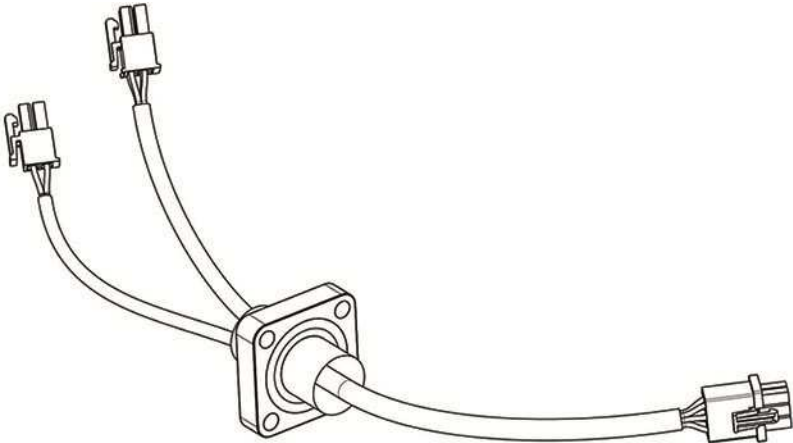
Service Side Cover

2.4.1 Rear Bearing Power Feedthrough

110027

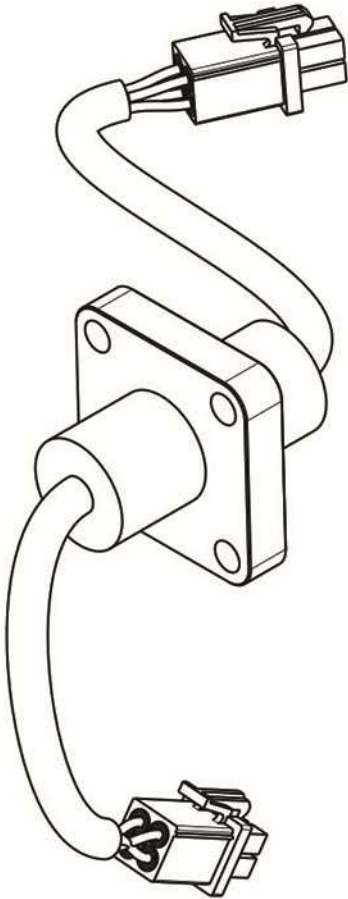


199K2025



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------------|----------|--|-----------|---|
| REAR BEARING POWER FEEDTHROUGH | 110027 | <ul style="list-style-type: none"> VTT1200 | All | Includes all required fasteners and O-rings |
| REAR BEARING POWER FEEDTHROUGH | 110027 | <ul style="list-style-type: none"> VTX1600 | A & B | Includes all required fasteners and O-rings |
| REAR BEARING POWER FEEDTHROUGH | 199K2025 | <ul style="list-style-type: none"> VTX1600 | C | Includes all required fasteners and O-rings |
| O-RING, SENSOR-POWER FEEDTHROUGH | 199K2016 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes O-ring and required fasteners |

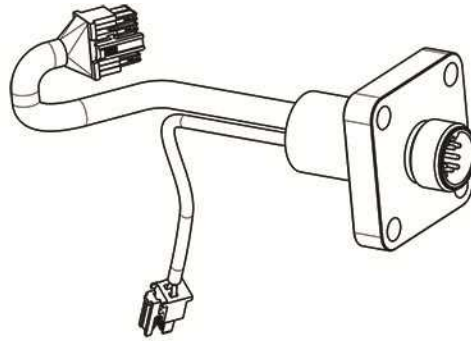
2.4.2 Front Bearing Power Feedthrough



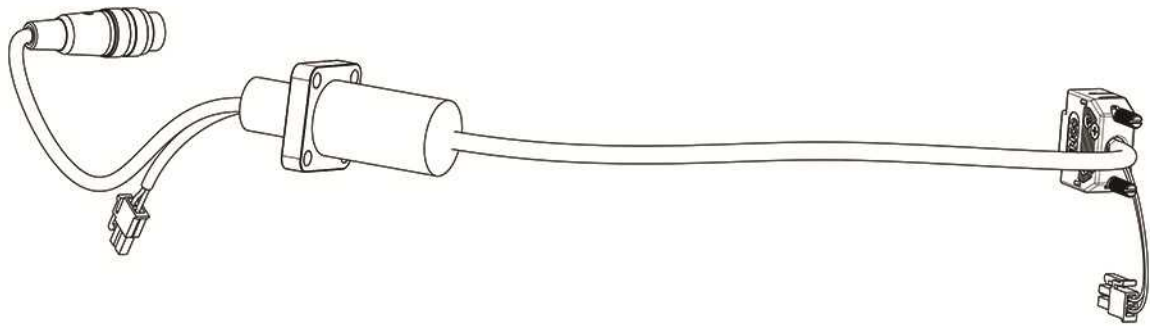
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------------|----------|------------|-----------|---|
| FRONT BEARING POWER FEEDTHROUGH | 199K2026 | • VTX1600 | C | Includes all required fasteners and O-rings |
| O-RING, SENSOR-POWER FEEDTHROUGH | 199K2016 | • VTX1600 | C | Includes O-ring and required fasteners |

2.4.3 Rear Bearing Sensor Feedthrough

110069

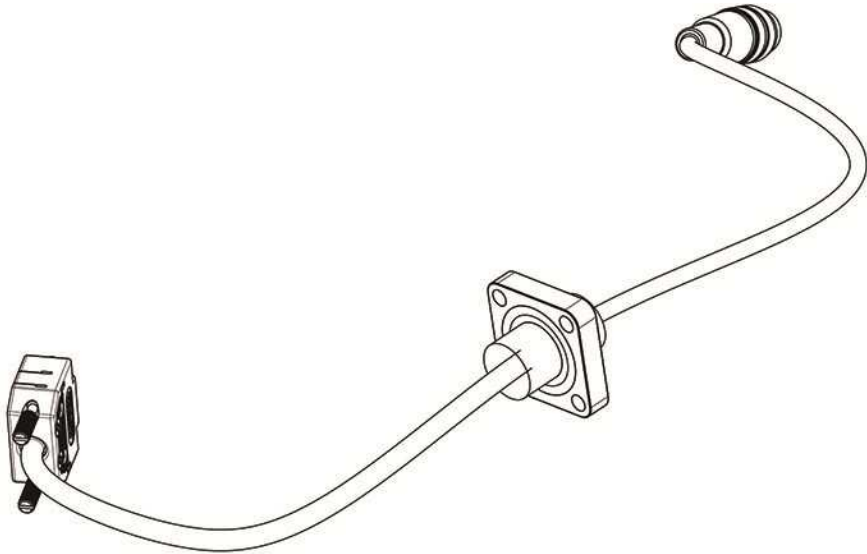


199K2024



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------------|----------|--|-----------|---|
| REAR BEARING SENSOR FEEDTHROUGH | 110069 | <ul style="list-style-type: none"> VTT1200 | All | Includes all required fasteners and O-rings |
| REAR BEARING SENSOR FEEDTHROUGH | 110069 | <ul style="list-style-type: none"> VTX1600 | A & B | Includes all required fasteners and O-rings |
| REAR BEARING SENSOR FEEDTHROUGH | 199K2024 | <ul style="list-style-type: none"> VTX1600 | C | Includes all required fasteners and O-rings |
| O-RING, SENSOR-POWER FEEDTHROUGH | 199K2016 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes O-ring and required fasteners |

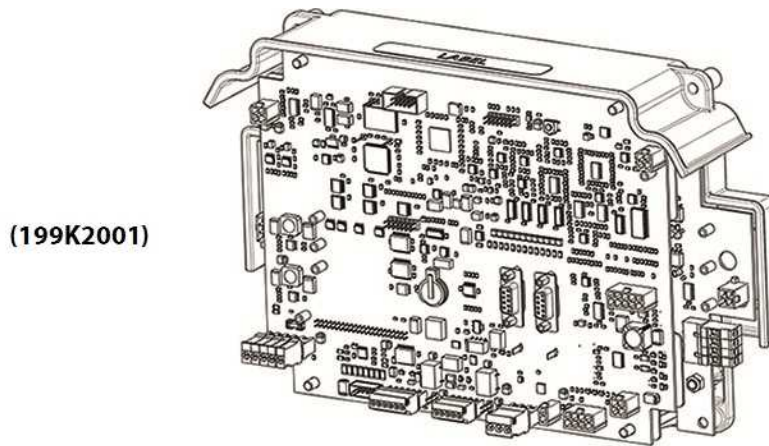
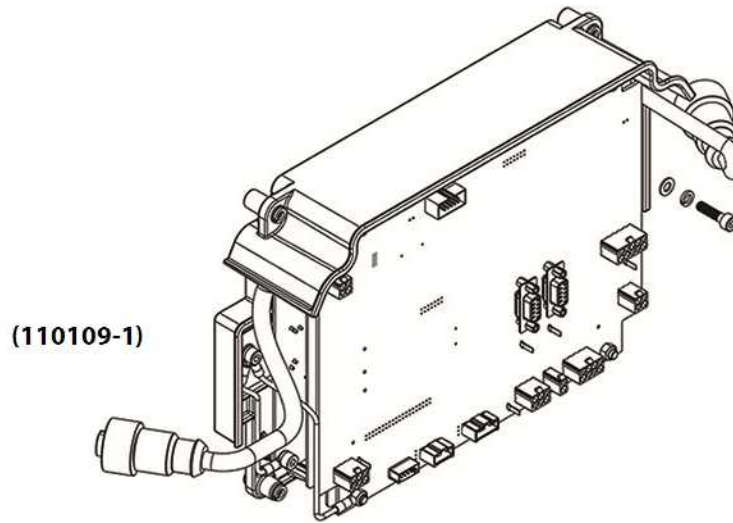
2.4.4 Front Bearing Sensor Feedthrough



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------------|----------|---|-----------|---|
| FRONT BEARING SENSOR FEEDTHROUGH | 199K2015 | <ul style="list-style-type: none"> VTX1600 | C | Includes all required fasteners and O-rings |
| O-RING, SENSOR-POWER FEEDTHROUGH | 199K2016 | <ul style="list-style-type: none"> VTX1600 | C | Includes O-ring and required fasteners |

2.4.5 Service Electronics

The Service Electronics include the Compressor Control Module (CCM) and Pulse Width Modulation Amplifier (PWM).

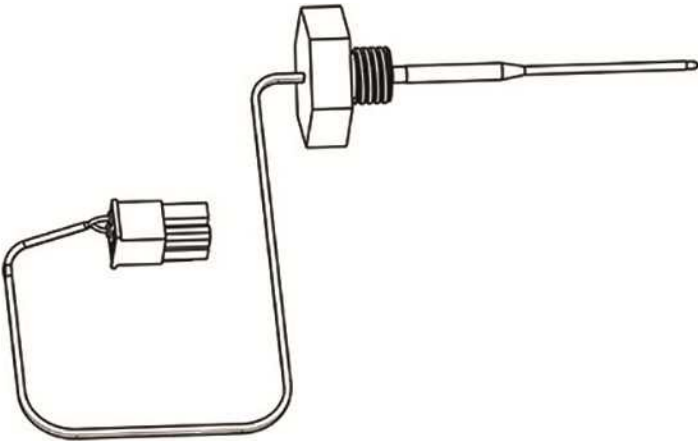


NOTE

The CCM is supplied with current firmware version and this must match the CIM version. Field programming may be necessary.

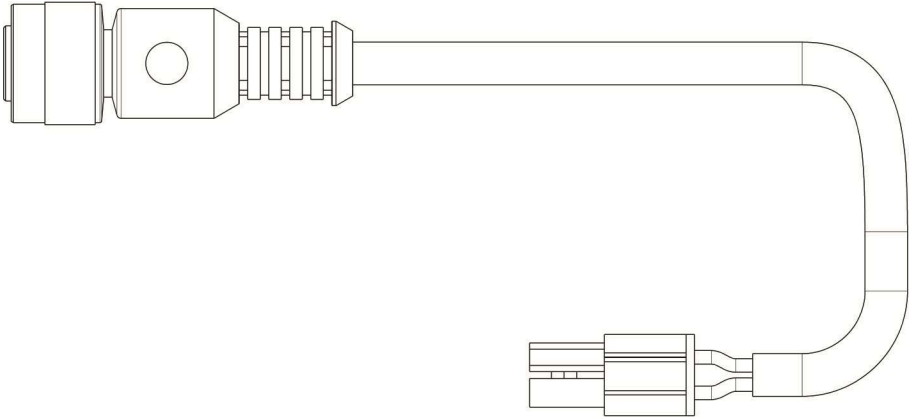
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------------|----------|--|-----------|---------------------------------|
| (1) SERVICE ELECTRONICS | 110109-1 | <ul style="list-style-type: none"> VTT1200 | All | Includes all required fasteners |
| (1) SERVICE ELECTRONICS | 110109-1 | <ul style="list-style-type: none"> VTX1600 | A & B | Includes all required fasteners |
| (2) SERVICE ELECTRONICS | 199K2001 | <ul style="list-style-type: none"> VTX1600 | C | Includes all required fasteners |
| HARDWARE, SERVICE ELECTRONICS | 199K2017 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Fasteners only |

2.4.6 Cavity Temperature Sensor



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------|----------|---|-----------|--|
| CAVITY TEMP SENSOR | 100196-3 | <ul style="list-style-type: none"> VTX1600 | C | Includes Cavity Temp Sensor and O-ring |
| O-RING, CAVITY SENSOR | 199K2020 | <ul style="list-style-type: none"> VTX1600 | C | Includes O-ring |

2.4.7 Motor Temperature Sensor Cable



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------|----------|--|-----------|------------|
| MOTOR TEMPERATURE SENSOR CABLE | 110047 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Cable only |

2.4.8 Front Bearing Sensor Cable

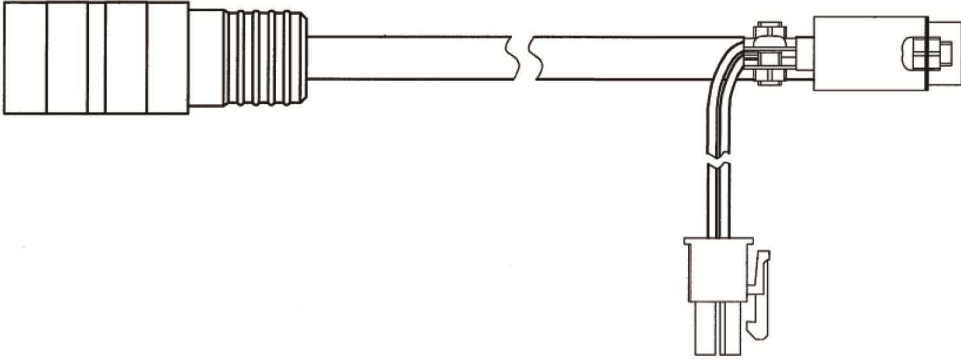


NOTE

This will not work if the compressor has the one-piece feedthrough design.

| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------|----------|---|-----------|------------|
| FRONT BEARING SENSOR CABLE | 110031 | <ul style="list-style-type: none"> VTT1200 | All | Cable only |
| FRONT BEARING SENSOR CABLE | 110031 | <ul style="list-style-type: none"> VTX1600 | A & B | Cable only |

2.4.9 Rear Bearing Sensor/ Motor Sensor Cable

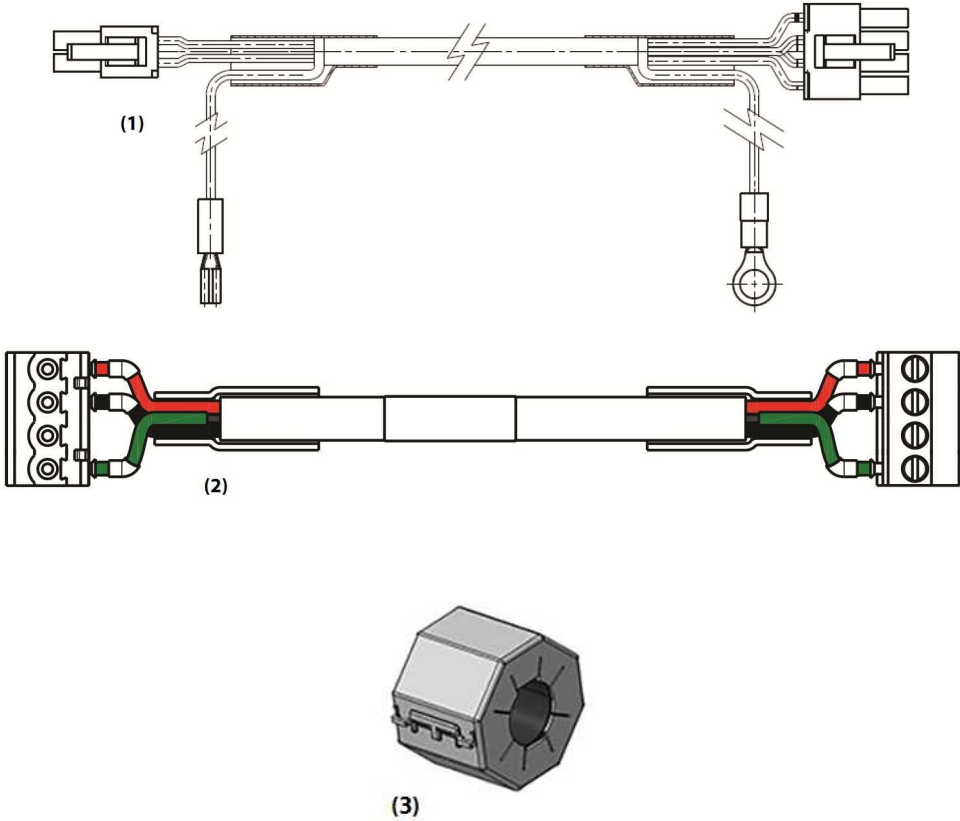


NOTE

This will not work if the compressor has the one-piece feedthrough design.

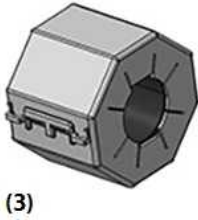
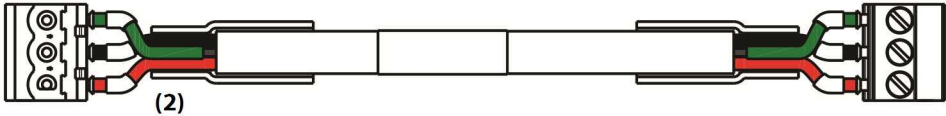
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|---|-----------|------------|
| REAR BEARING SENSOR/MOTOR SENSOR CABLE | 110039 | <ul style="list-style-type: none"> VTT1200 | All | Cable only |
| REAR BEARING SENSOR/MOTOR SENSOR CABLE | 110039 | <ul style="list-style-type: none"> VTX1600 | A & B | Cable only |

2.4.10 250 V DCDC- PWM Cable



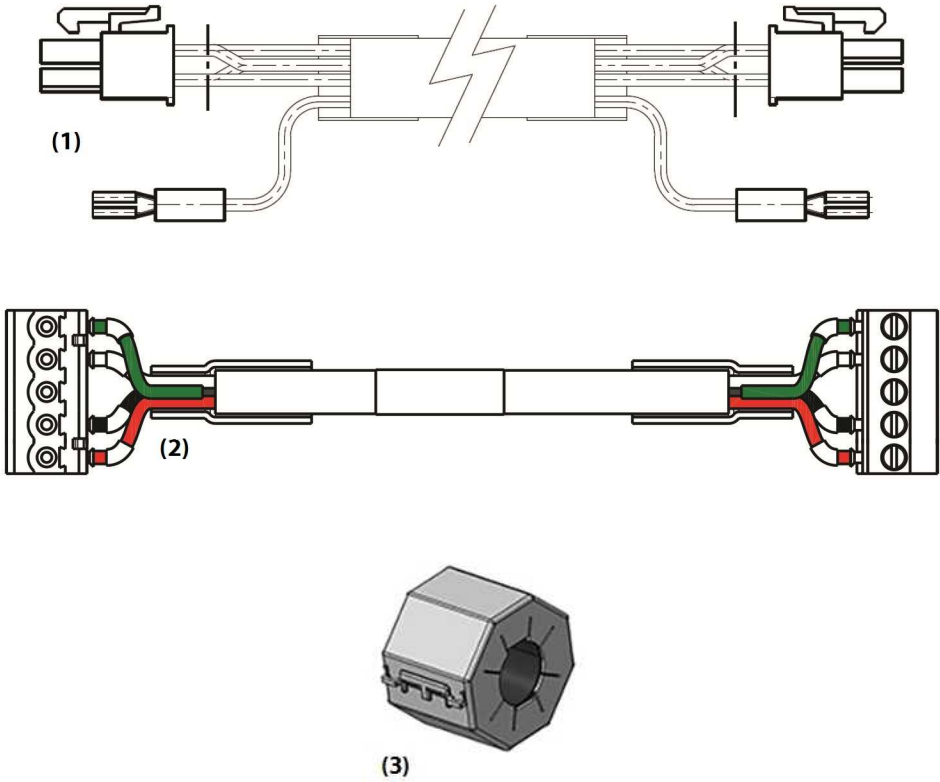
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------|----------|---|-----------|----------------------------------|
| (1) CABLE, 250V DCDC-PWM | 110061 | <ul style="list-style-type: none"> VTT1200 | A & B | Cable only |
| (2) CABLE, 250V DCDC-PWM | 110104 | <ul style="list-style-type: none"> VTT1200 | C | Includes cable and ferrite choke |
| (2) CABLE, 250V DCDC-PWM | 110104 | <ul style="list-style-type: none"> VTX1600 | All | Includes cable and ferrite choke |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTT1200 | C | Includes all chokes |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTX1600 | All | Includes all chokes |

2.4.11 CCM-CIM 24V Cable



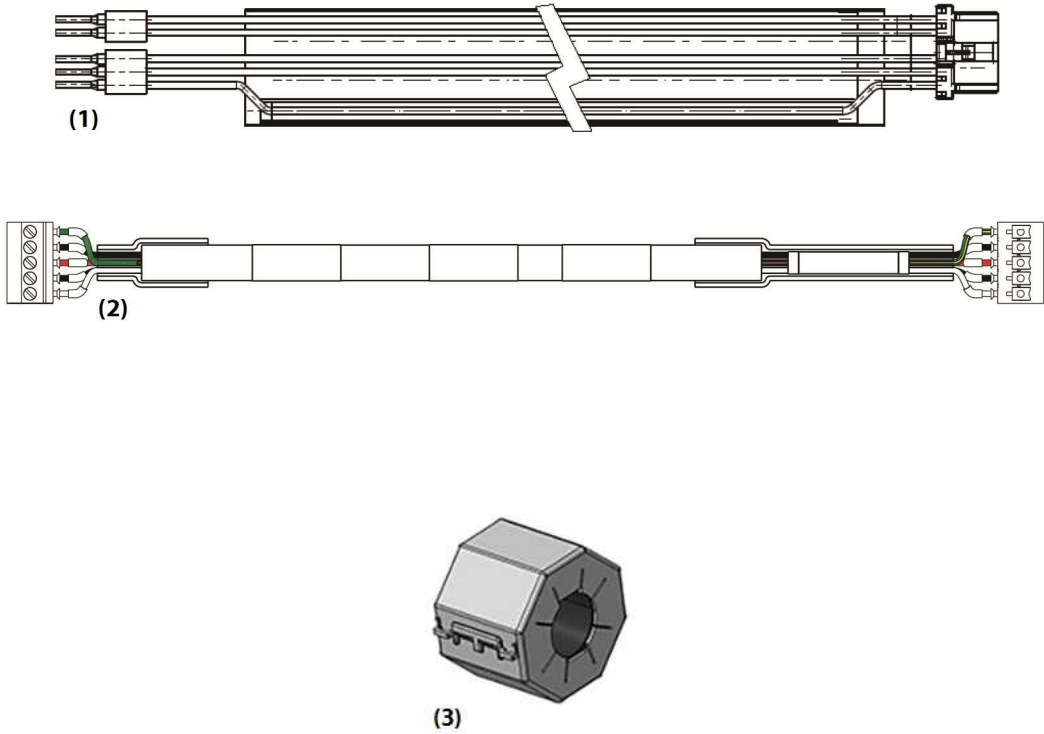
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------|----------|---|-----------|----------------------------------|
| (1) CABLE, CCM-CIM 24V | 110065 | <ul style="list-style-type: none"> VTT1200 | A & B | Cable only |
| (2) CABLE, CCM-CIM 24V | 110105 | <ul style="list-style-type: none"> VTT1200 | C | Includes cable and ferrite choke |
| (2) CABLE, CCM-CIM 24V | 110105 | <ul style="list-style-type: none"> VTX1600 | All | Includes cable and ferrite choke |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTT1200 | C | Includes all chokes |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTX1600 | All | Includes all chokes |

2.4.12 DC-DC-CCM 24 V Cable



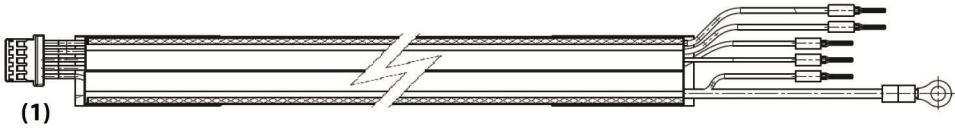
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------|----------|---|-----------|----------------------------------|
| (1) CABLE, DCDC-CCM 24V | 110058 | <ul style="list-style-type: none"> VTT1200 | A & B | Cable only |
| (2) CABLE, DCDC-CCM 24V | 110102 | <ul style="list-style-type: none"> VTT1200 | C | Includes cable and ferrite choke |
| (2) CABLE, DCDC-CCM 24V | 110102 | <ul style="list-style-type: none"> VTX1600 | All | Includes cable and ferrite choke |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTT1200 | C | Includes all chokes |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTX1600 | All | Includes all chokes |

2.4.13 CCM-CIM Cable



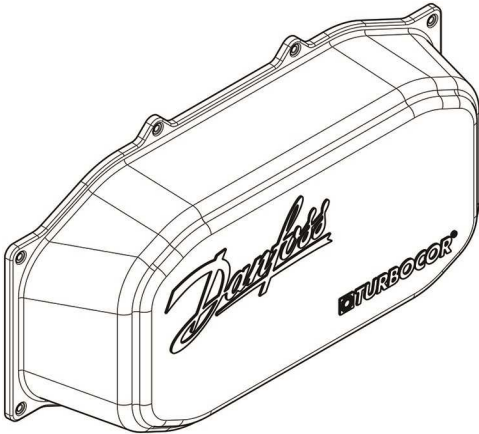
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------|----------|---|-----------|---------------------|
| (1) CABLE, CAN CCM-CIM | 110059 | <ul style="list-style-type: none"> VTT1200 | A & B | Cable only |
| (2) CABLE, CAN CCM-CIM | 110103 | <ul style="list-style-type: none"> VTT1200 | C | Cable only |
| (2) CABLE, CAN CCM-CIM | 110103 | <ul style="list-style-type: none"> VTX1600 | All | Cable only |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTT1200 | C | Includes all chokes |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTX1600 | All | Includes all chokes |

2.4.14 CCM-VFD Cable



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------|----------|---|-----------|----------------------------------|
| (1) CABLE, CCM-VFD | 110057 | <ul style="list-style-type: none"> VTT1200 | A & B | Cable only |
| (2) CABLE, CCM-VFD | 110101 | <ul style="list-style-type: none"> VTT1200 | C | Includes cable and ferrite choke |
| (2) CABLE, CCM-VFD | 110101 | <ul style="list-style-type: none"> VTX1600 | All | Includes cable and ferrite choke |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTT1200 | C | Includes all chokes |
| (3) FERRITE CHOKES | 112058 | <ul style="list-style-type: none"> VTX1600 | All | Includes all chokes |

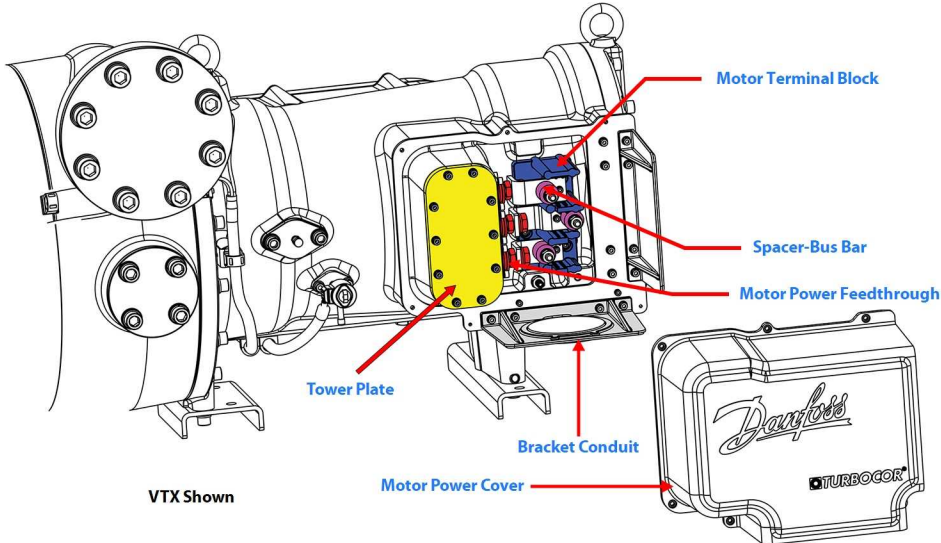
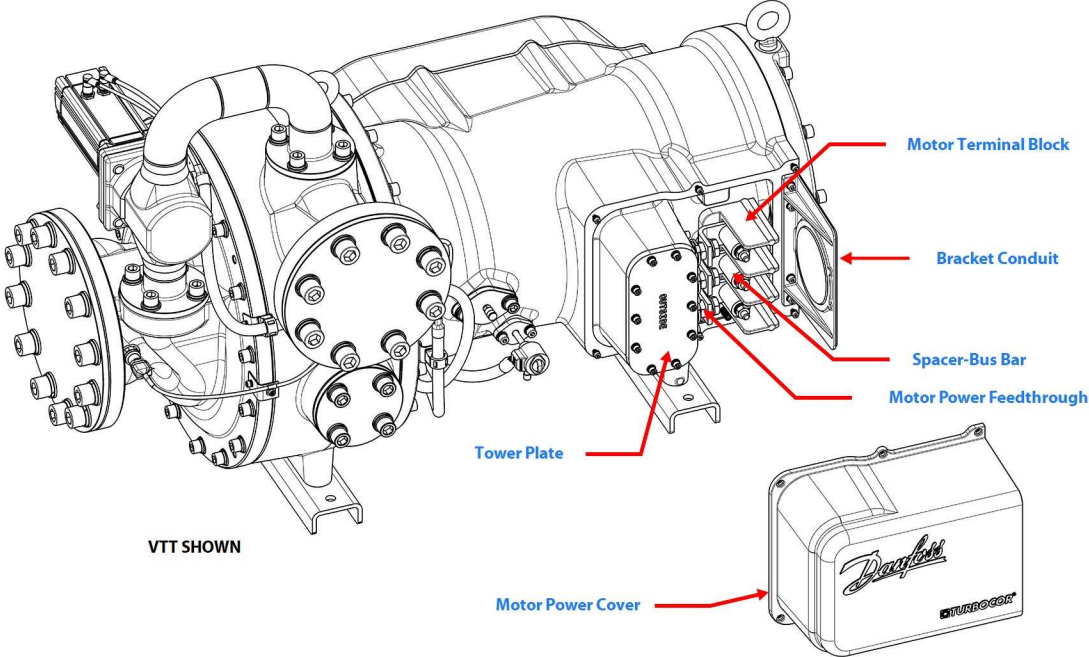
2.4.15 Service Side Cover



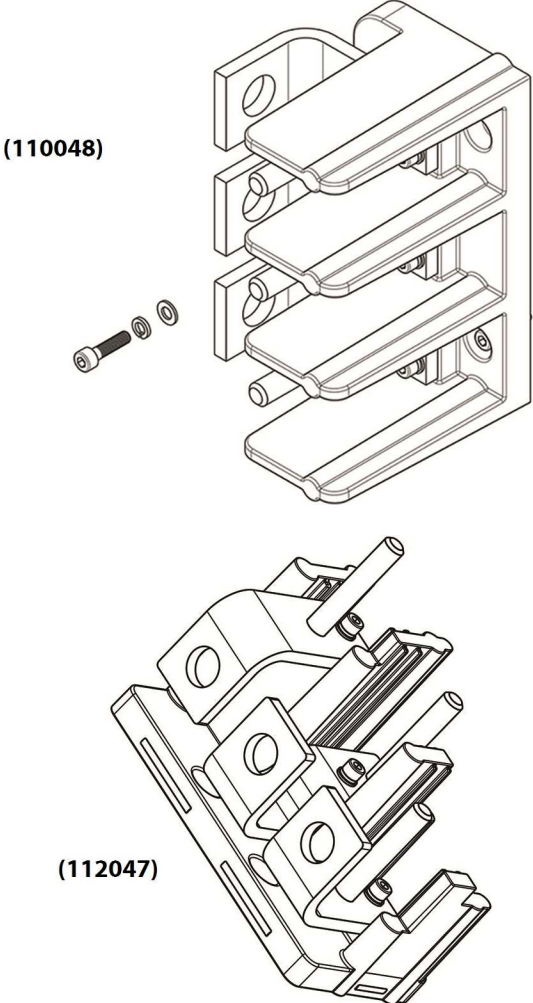
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------|----------|---|-----------|---|
| SERVICE SIDE COVER | 110099 | <ul style="list-style-type: none"> VTT1200 | B & C | Includes all fasteners and washers required |
| SERVICE SIDE COVER | 110099 | <ul style="list-style-type: none"> VTX1600 | All | Includes all fasteners and washers required |

2.5 Power Side

This section includes the spare part kits available for parts underneath the Motor Power Cover, and the Motor Power Cover itself located on the power side of the compressor.

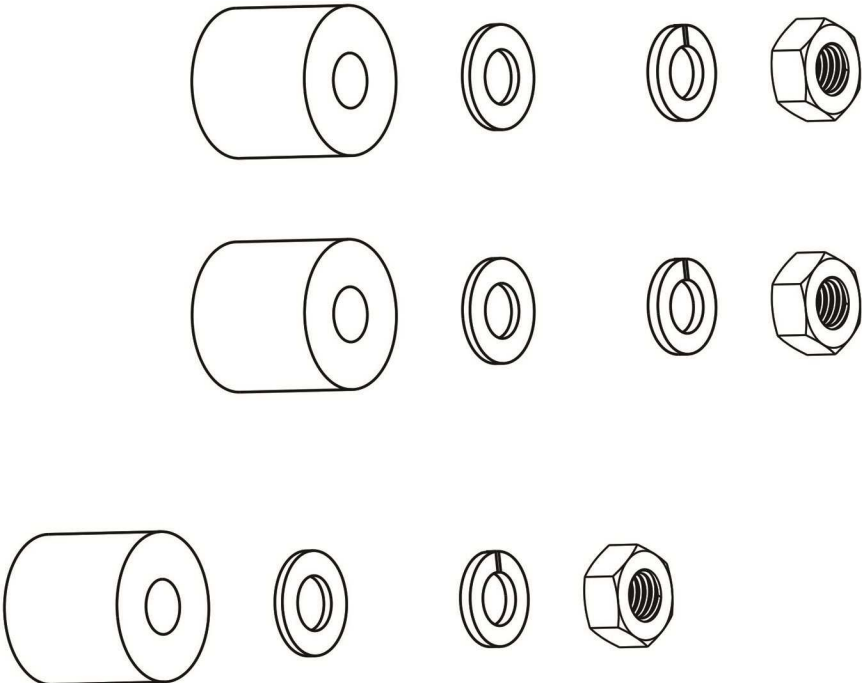


2.5.1 Motor Terminal Block



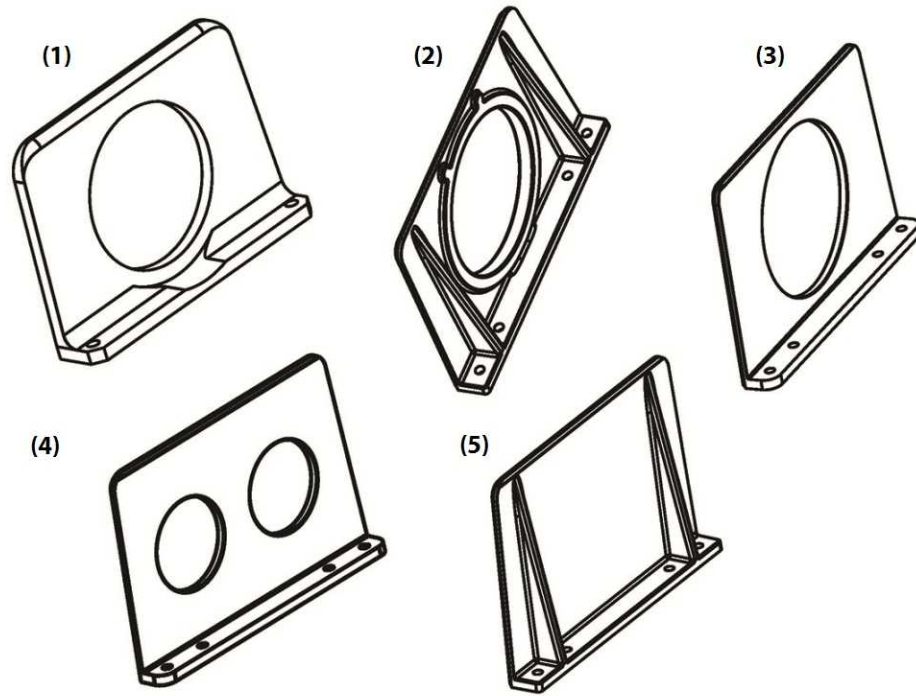
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------|----------|---|-----------|---|
| MOTOR TERMINAL BLOCK | 110048 | <ul style="list-style-type: none"> VTT1200 | All | Includes Terminal Block, bus bars, and required fasteners |
| MOTOR TERMINAL BLOCK | 112047 | <ul style="list-style-type: none"> VTX1600 | All | Includes Terminal Block, bus bars, and required fasteners |

2.5.2 Spacer - Bus Bar



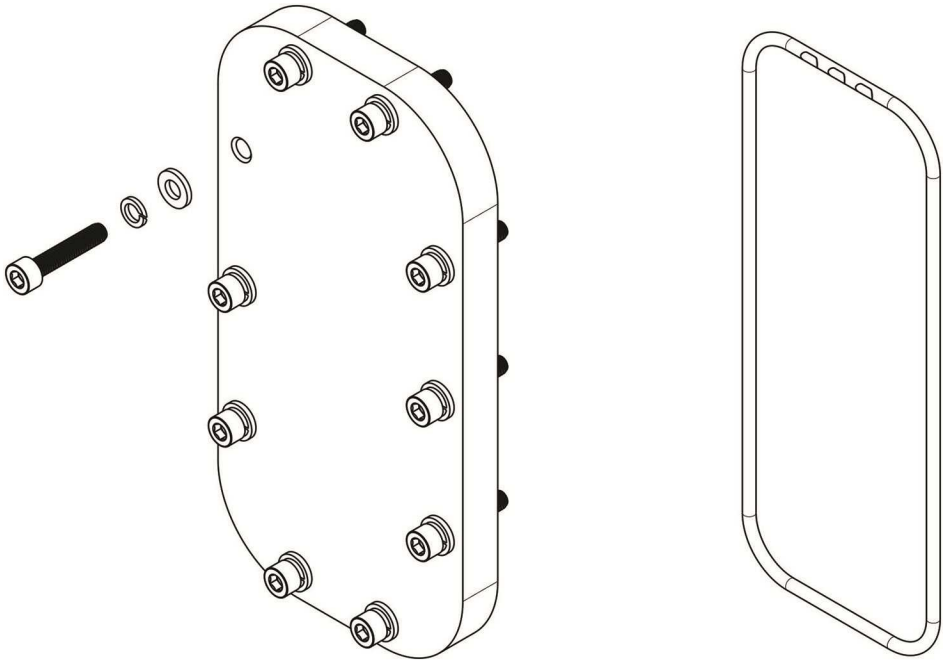
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------|----------|---|-----------|---------------------------------|
| BUS BAR SPACERS, VT SERIES | 110089 | <ul style="list-style-type: none"> VTT1200 | All | Includes all required fasteners |
| BUS BAR SPACERS, VT SERIES | 112048 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners |

2.5.3 Bracket Conduit



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|---|-----------|---------------------------------|
| (1) MAINS INPUT BRACKET, ONE HOLE | 110090 | <ul style="list-style-type: none"> VTT1200 | A | Includes all required fasteners |
| (2) MAINS INPUT BRACKET, ONE HOLE, PLASTIC | 110100 | <ul style="list-style-type: none"> VTT1200 | B & C | Includes all required fasteners |
| (3) MAINS INPUT BRACKET, ONE HOLE, METAL | 112050 | <ul style="list-style-type: none"> VTT1200 | B & C | Includes all required fasteners |
| (4) MAINS INPUT BRACKET, TWO HOLE, METAL | 112051 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners |
| (2) MAINS INPUT BRACKET, ONE HOLE, PLASTIC | 110100 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners |
| (3) MAINS INPUT BRACKET, ONE HOLE, METAL | 112050 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners |
| (5) MAINS INPUT BRACKET, NO HOLE | 112059 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners |

2.5.4 Tower Plate

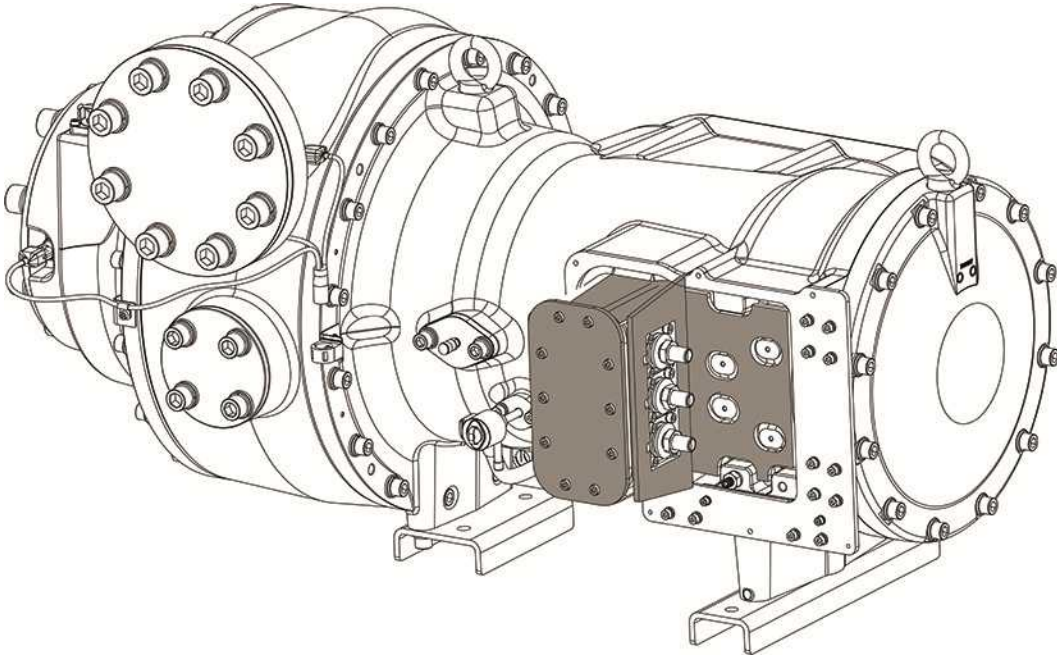


NOTE

The word "OUTSIDE" is no longer placed on the Tower Plate.

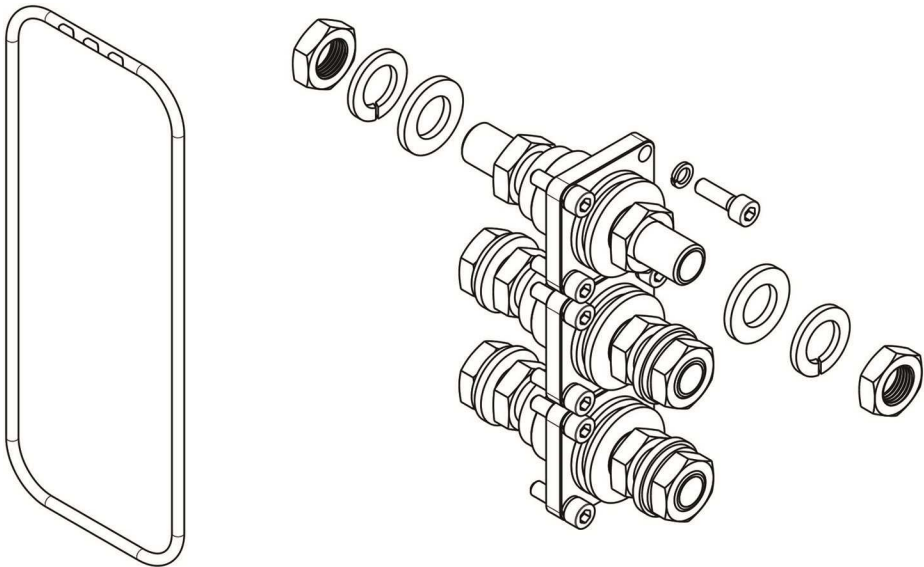
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------|----------|--|-----------|--|
| TOWER PLATE | 110049 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes all required fasteners and O-ring |
| O-RING, TOWER PLATE | 110051 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners and O-ring |

2.5.5 Tower Terminal Block Insulation



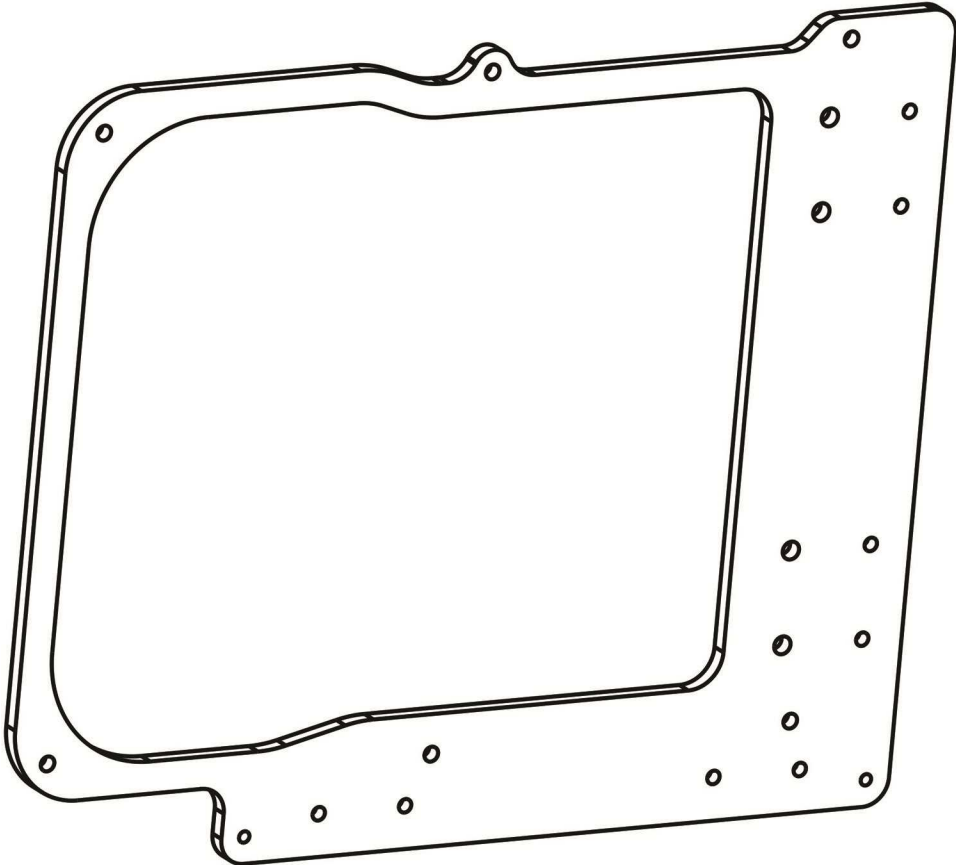
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------|----------|--|-----------|--------------------------------------|
| TOWER TERMINAL BLOCK INSULATION | 112060 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes four sections of insulation |

2.5.6 Motor Power Feedthrough



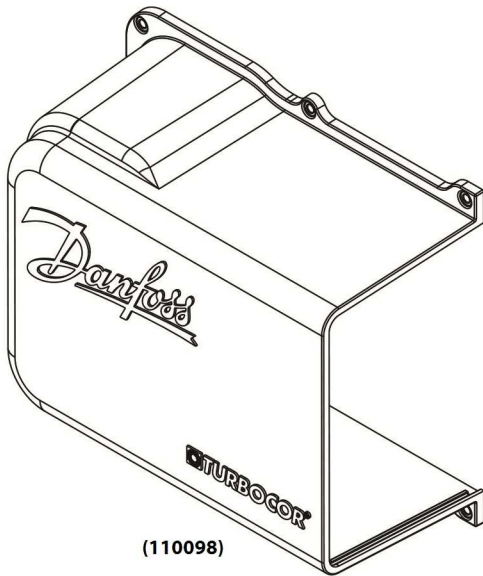
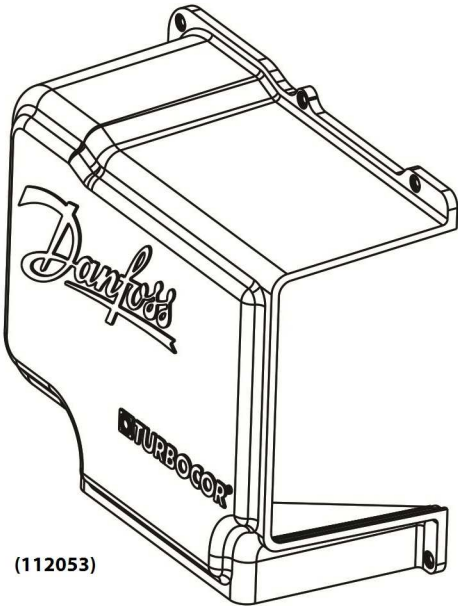
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------------|----------|--|-----------|--|
| MOTOR POWER FEEDTHROUGH | 110054 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes all fasteners required to replace all three, along with pictured O-ring |
| MOTOR POWER FEEDTHROUGH (SINGLE) | 110093 | <ul style="list-style-type: none"> VTT1200 VTX1600 | All | Includes all fasteners required to replace just one, along with pictured O-ring |
| O-RING, TOWER PLATE | 110051 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners and O-ring |

2.5.7 Power Cover Plate



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------|----------|---|-----------|------------------------------------|
| POWER COVER PLATE | 112052 | <ul style="list-style-type: none"> VTX1600 | All | Includes Cover Plate and fasteners |

2.5.8 Motor Power Cover



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------|----------|---|-----------|---------------------------------|
| POWER COVER | 110098 | <ul style="list-style-type: none"> VTT1200 | B & C | Includes all required fasteners |
| POWER COVER | 112053 | <ul style="list-style-type: none"> VTX1600 | All | Includes all required fasteners |

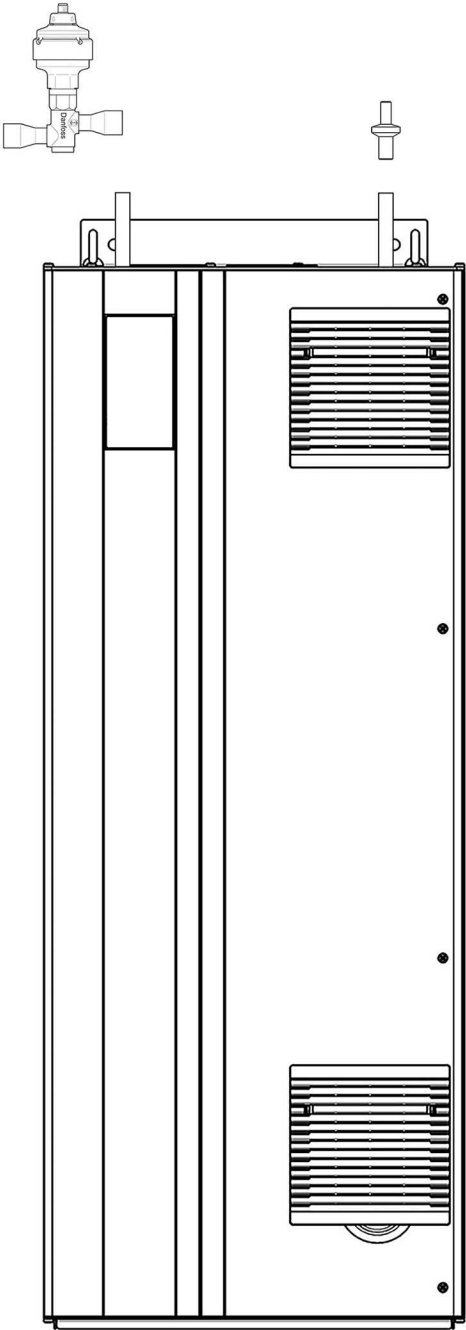


THIS PAGE INTENTIONALLY LEFT BLANK

Chapter 3.0 VFD Components

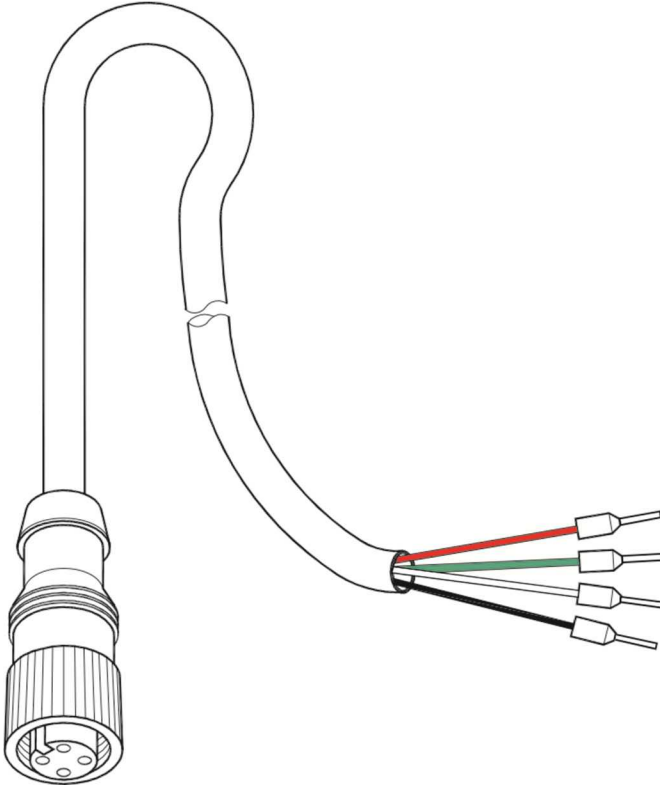
3.1 VFD External Components

The following section details the spare parts available for the Variable Frequency Drive (VFD) Module. Where applicable the Danfoss Drives part number is displayed (DRIVES PN). When ordering use the Turbocor® part number (PART NO.)



3.1.1 VFD Pressure Control Valve Cable

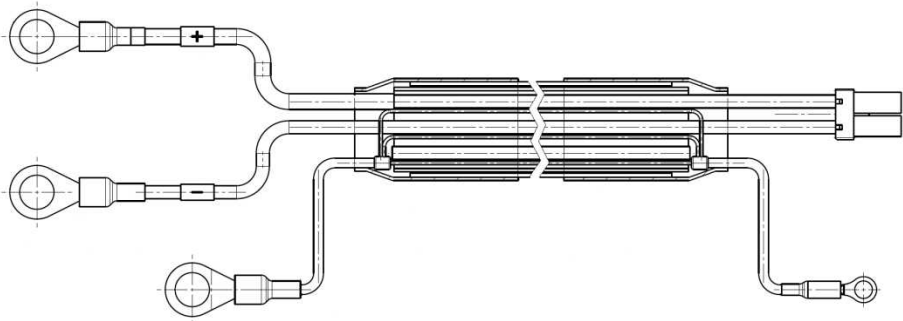
The VFD Pressure Control Valve Cable connects the CIM to the VFD Pressure Control Valve Motor.



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------|----------|--|-----------|------------|
| CABLE, VFD VALVE | 110001 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.1.2 VFD DC-DC Cable

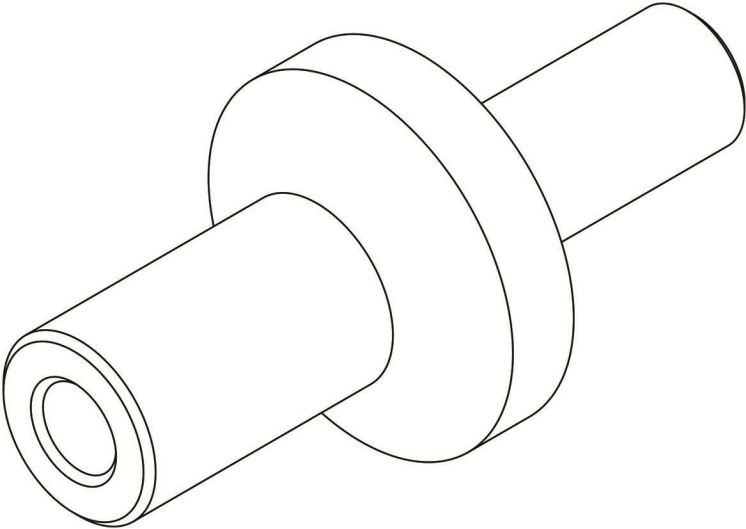
The VFD – DC-DC Cable passes High Voltage DC from the VFD to the DC-DC.



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------|----------|--|-----------|---------------------------|
| CABLE, VFD-DCDC 3M | 110000 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only (3meters) |
| CABLE, VFD-DCDC 15M | 110106 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only (15 meters) |

3.1.3 VFD Orifice

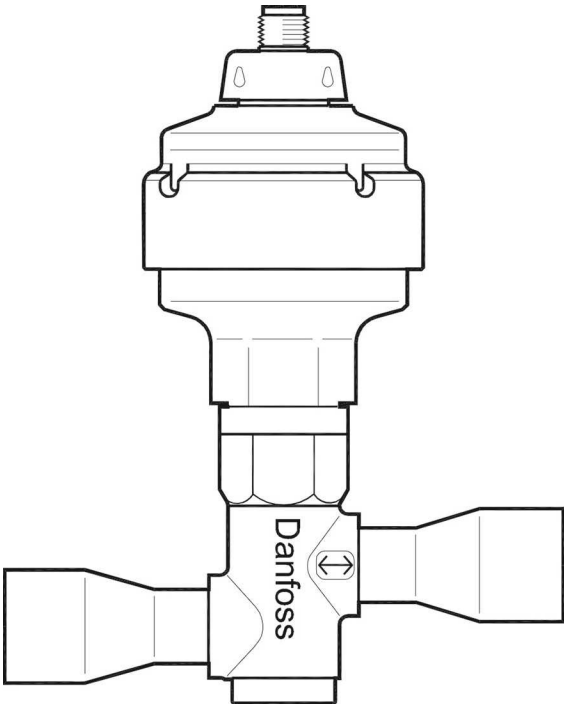
The VFD Orifice must be fitted to the VFD Module at the cold plate tube refrigerant inlet. This orifice controls flow of refrigerant to the VFD Module.



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------|----------|--|-----------|--------------|
| ORIFICE VFD | 110006 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Orifice only |

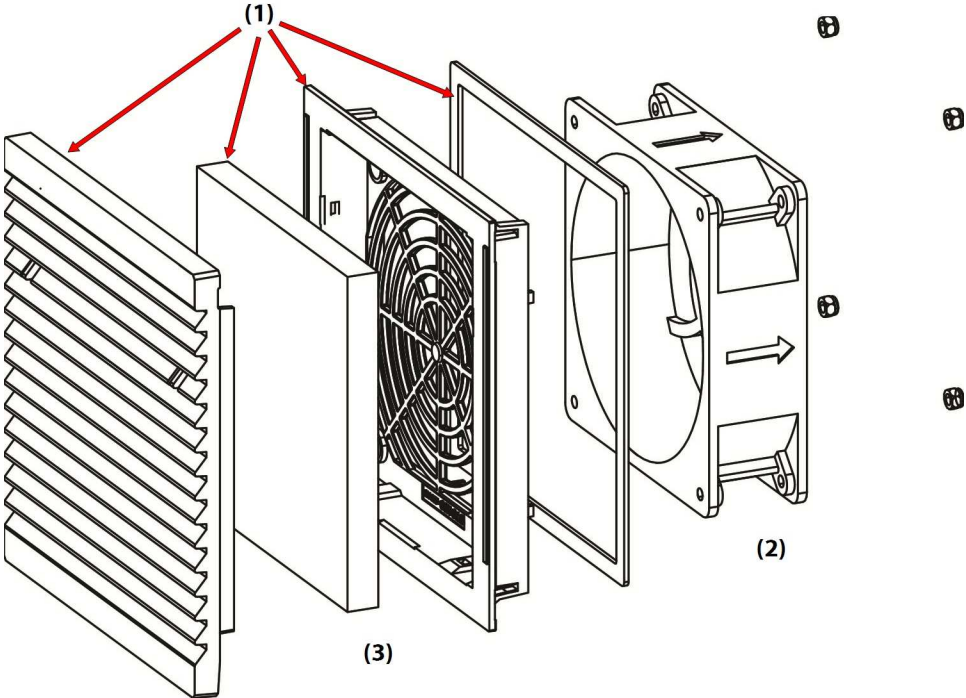
3.1.4 VFD Valve

The VFD Valve must be fitted to the VFD at the cold plate tube refrigerant outlet. This valve regulates refrigerant pressure and temperature.



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------|----------|--|-----------|------------|
| VFD VALVE DANFOSS | 110085 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | Valve only |

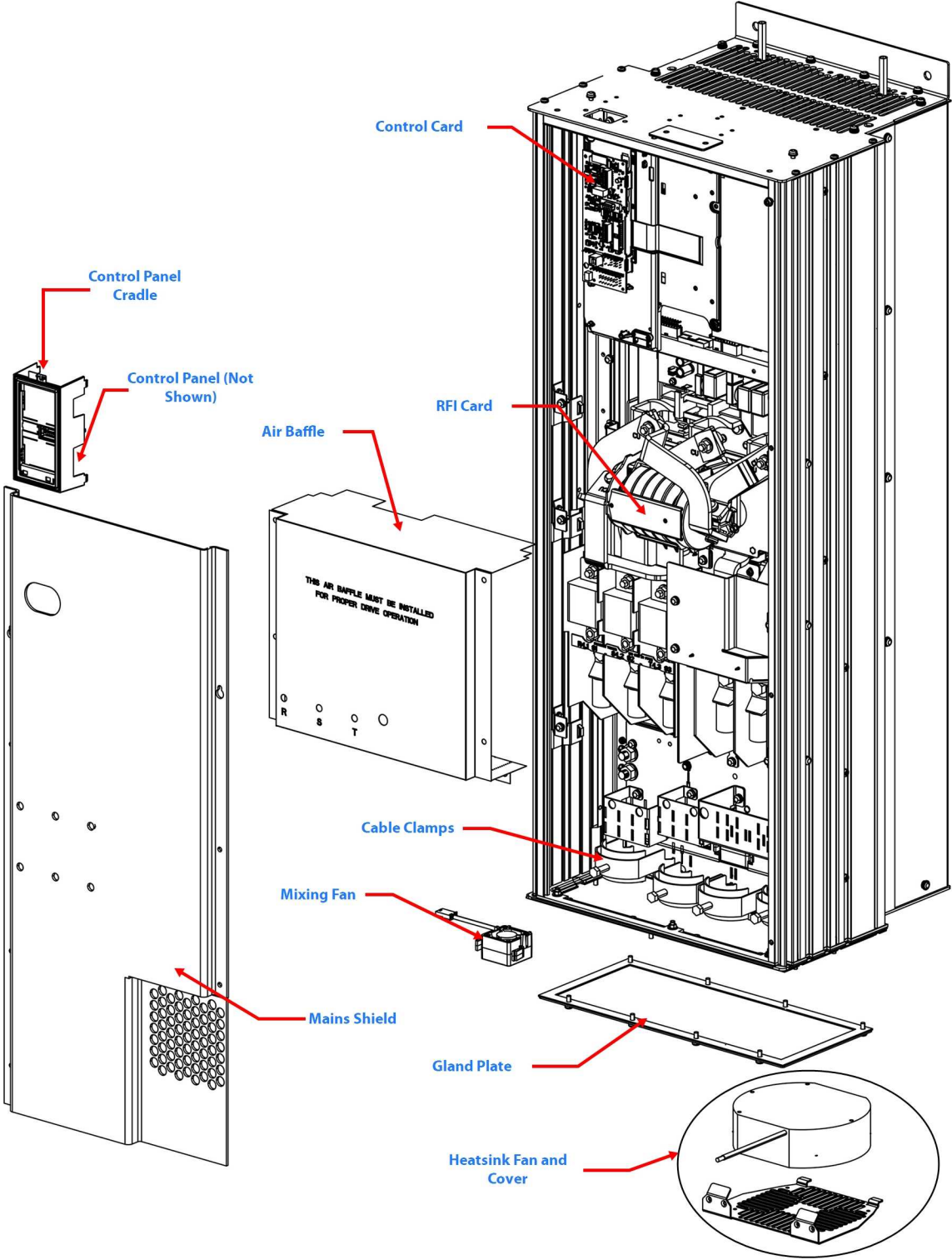
3.1.5 VFD Door Vent and Fan



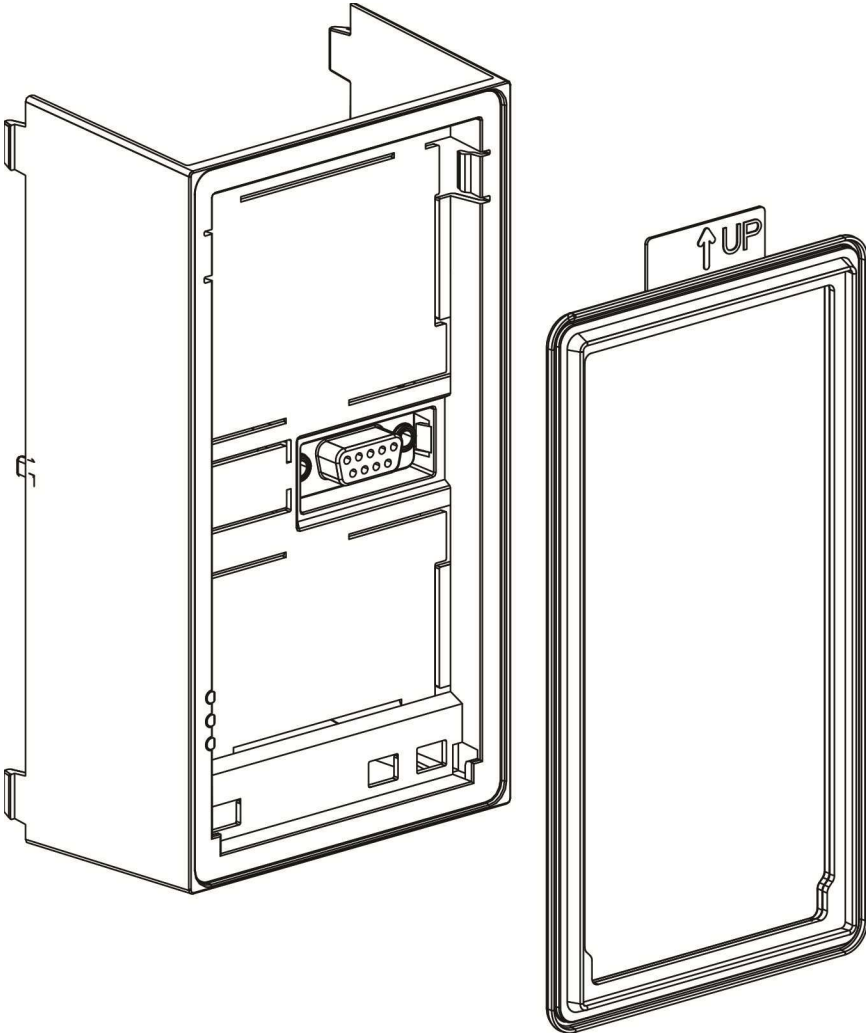
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|--|
| (1) DOOR VENT KIT IP21/IP54 DH FRAME | 176F3375 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes vent, filter, gasket, support, grill, and fasteners. Does not include fan. |
| (2) DOOR FAN IP21/54 DC 120X38 | 176F3169 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Fan only |
| (3) DOOR FAN FILTER DH FRAME PACKAGE OF 10 | 176F3353 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Package of 10 filters |

3.2 VFD Internal Components Level 1

The following section details the spare parts available for the Variable Frequency Drive Module (VFD) that are located directly under the outside cover of the drive. This includes covers and fans.

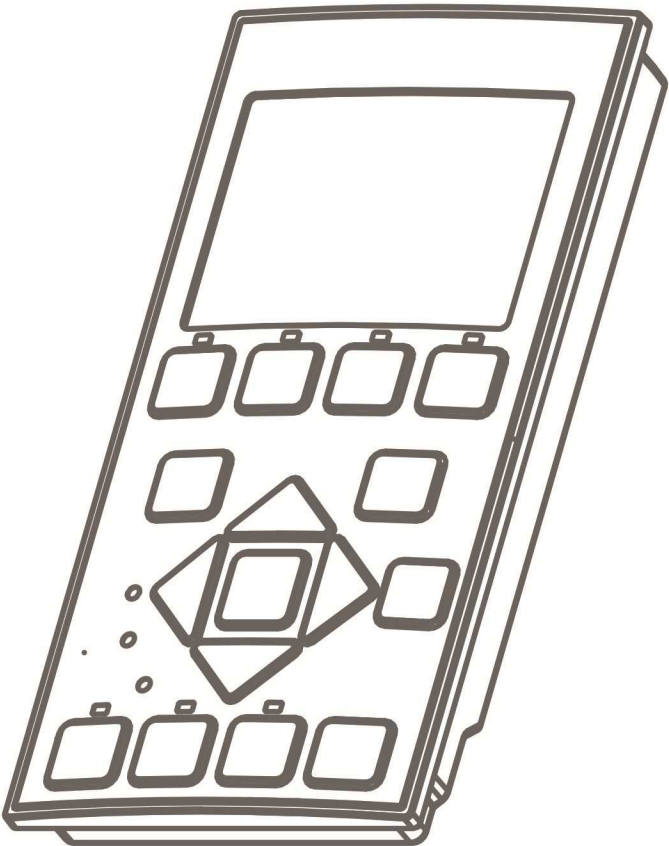


3.2.1 Control Panel Cradle



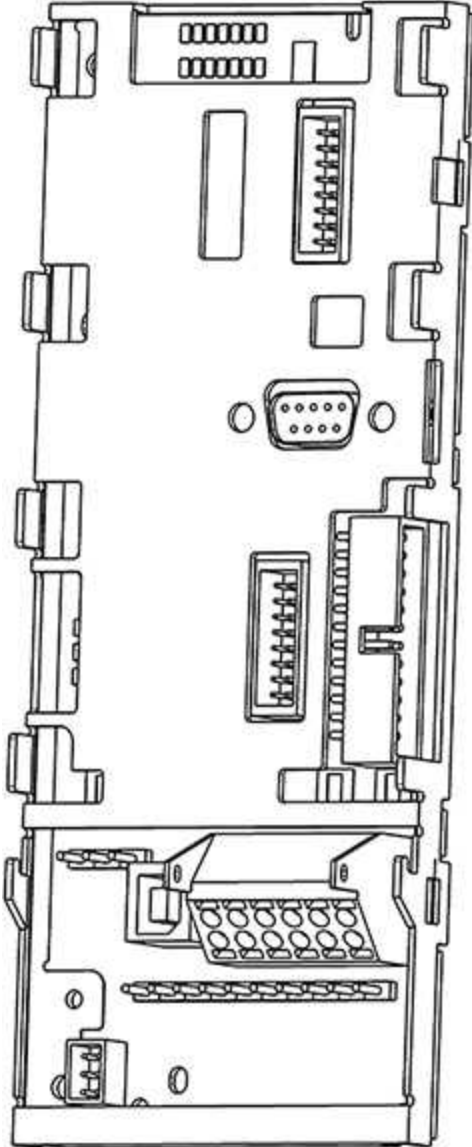
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|----------------------------|
| CRADLE FOR A5,B1,B2,C1,C2,D2H ENCLOSURE | 130B0264 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes cradle and gasket |

3.2.2 Control Panel



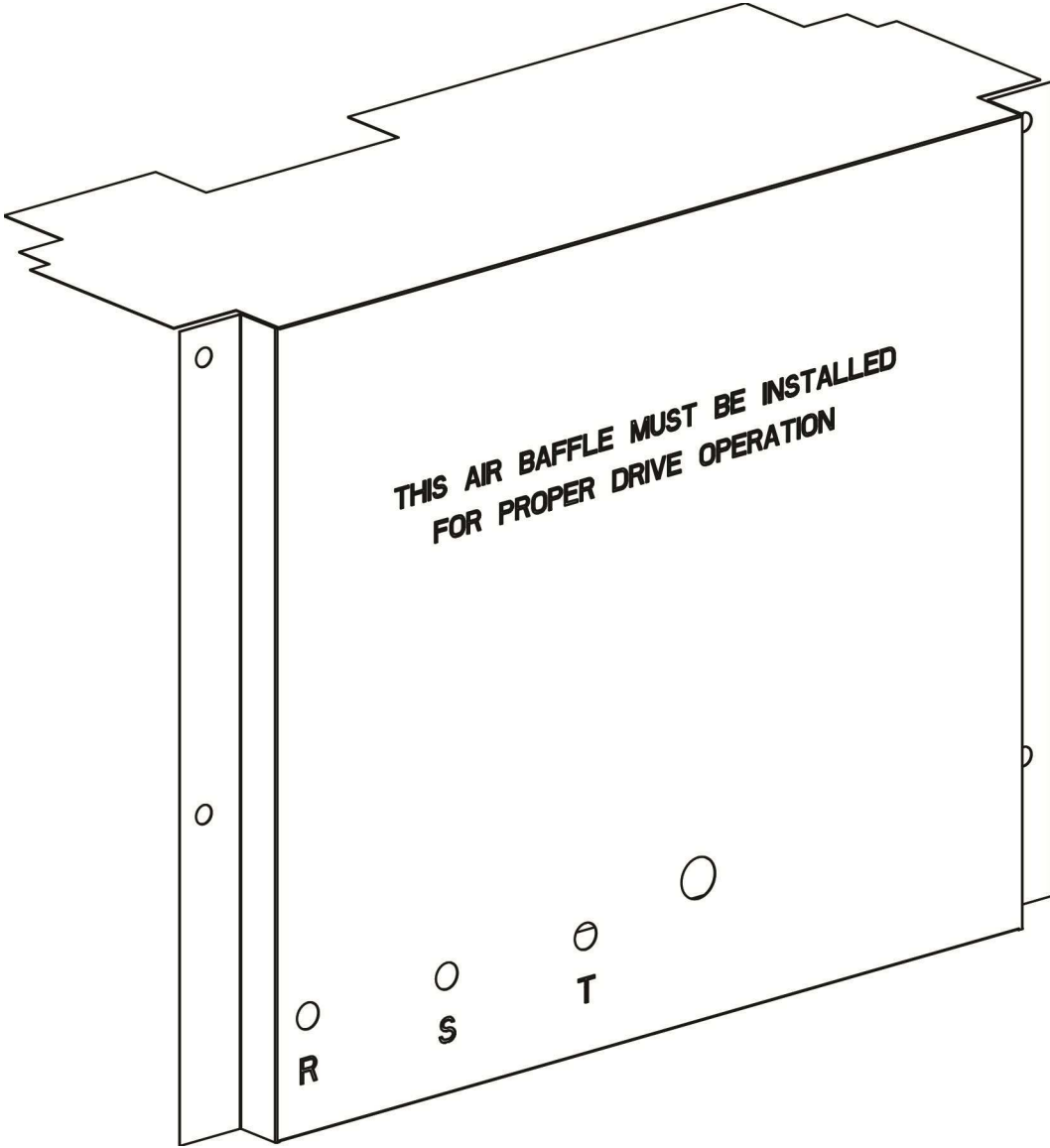
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|-----------------------------|
| CONTROL PANEL, LCP 102 A5,B1,B2,C1,C2,D2H ENCLOSURE | 130B1107 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | Includes control panel only |

3.2.3 Control Card



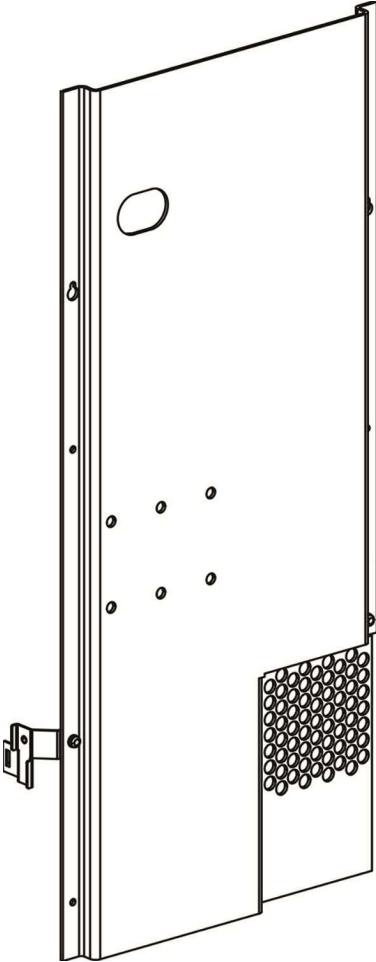
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------|----------|--|-----------|--|
| CONTROL CARD, VFD, MKI | 199K2023 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Control card only Specific to VTX/VTT products using firmware version 1.8 and earlier |
| CONTROL CARD, VFD, MKII | 199K2013 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Control card only Specific to VTX/VTT products using firmware version 1.9 and later |

3.2.4 Air Baffle



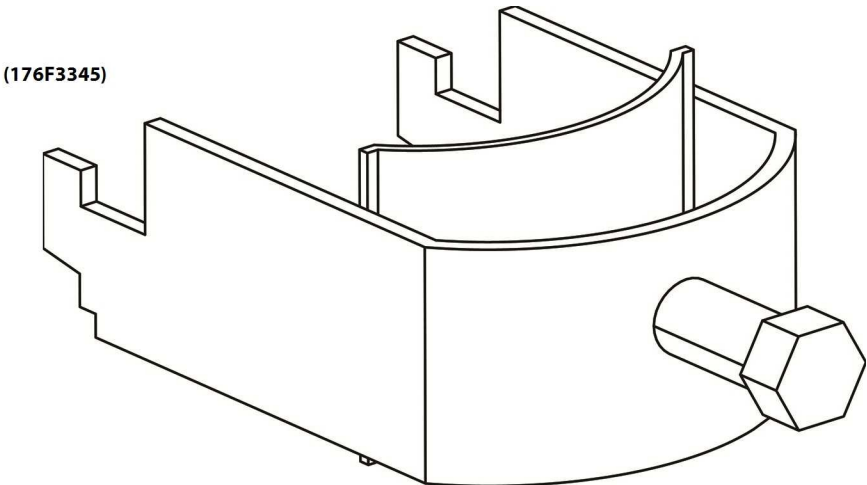
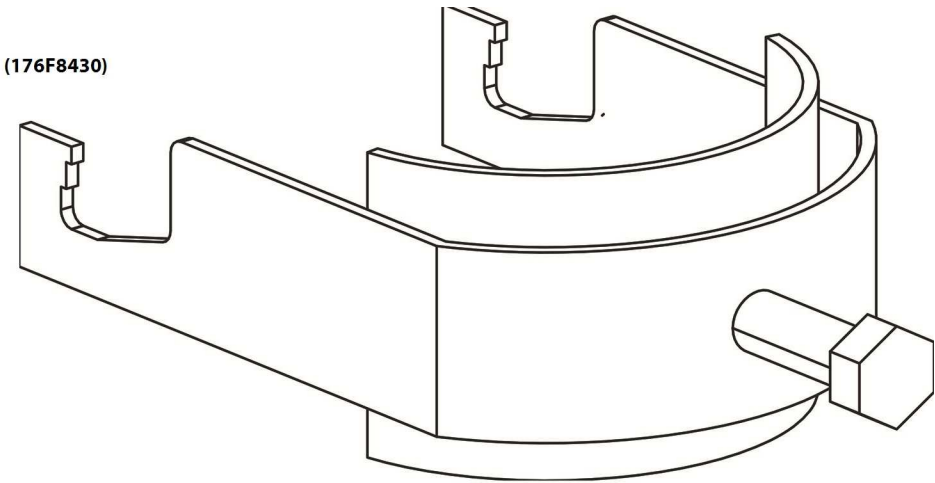
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------|----------|--|-----------|-----------------|
| AIR BAFFLE D2H FRAME | 176F3342 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Air baffle only |

3.2.5 Mains Shield



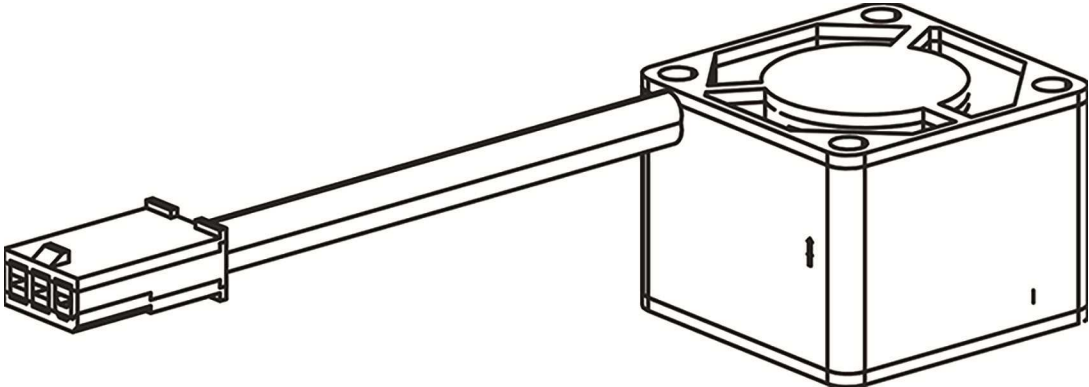
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------|----------|--|-----------|---------------------------------|
| MAINS SHIELD D2H FRAME | 176F3482 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Shield, brackets, and fasteners |

3.2.6 Cable Clamp



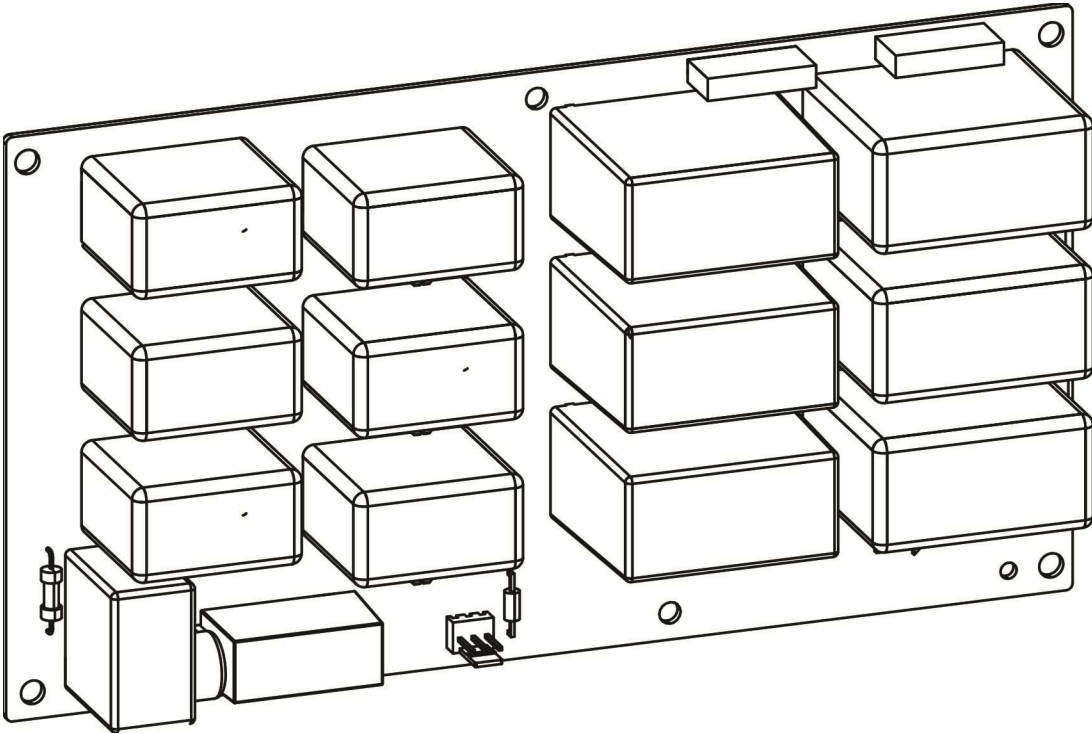
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------------|----------|--|-----------|------------------|
| CABLE CLAMP FOR FRAME SIZE D & E 60mm | 176F8430 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable clamp only |
| CABLE CLAMP 45mm DH FRAME | 176F3345 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable clamp only |

3.2.7 Mixing Fan



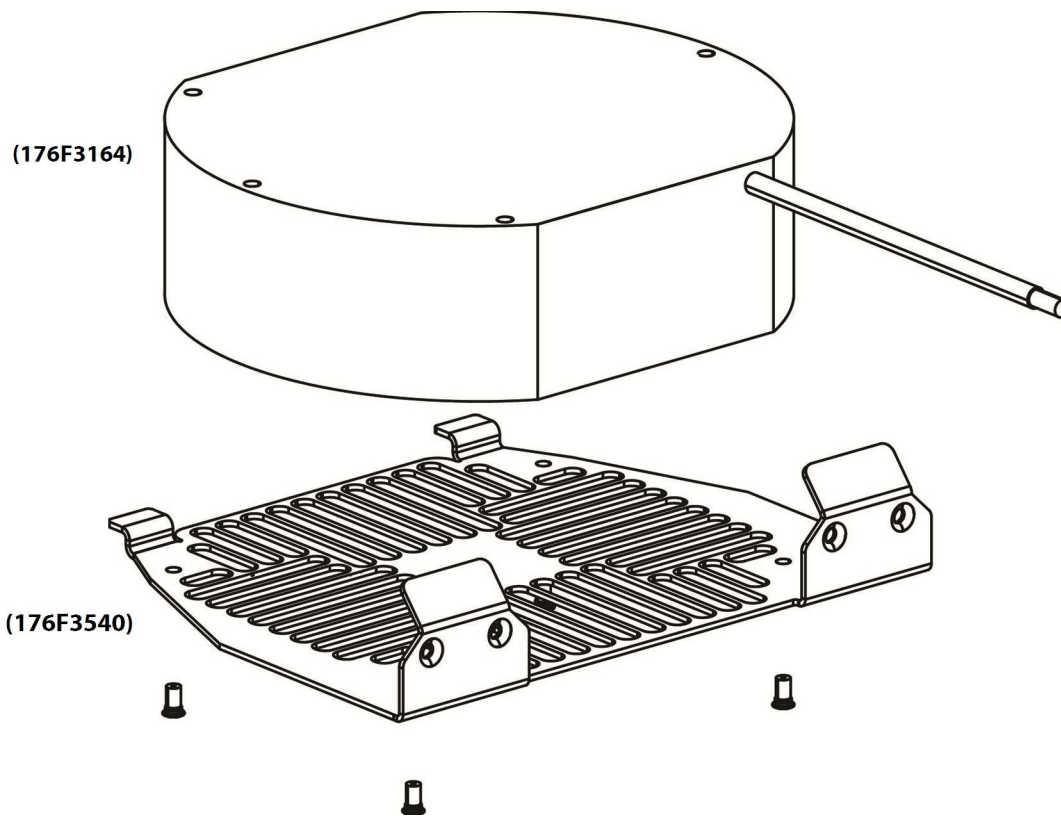
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------|----------|--|-----------|-----------------|
| MIXING FAN DC 40X28 mm | 176F3165 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Mixing fan only |

3.2.8 RFI Card



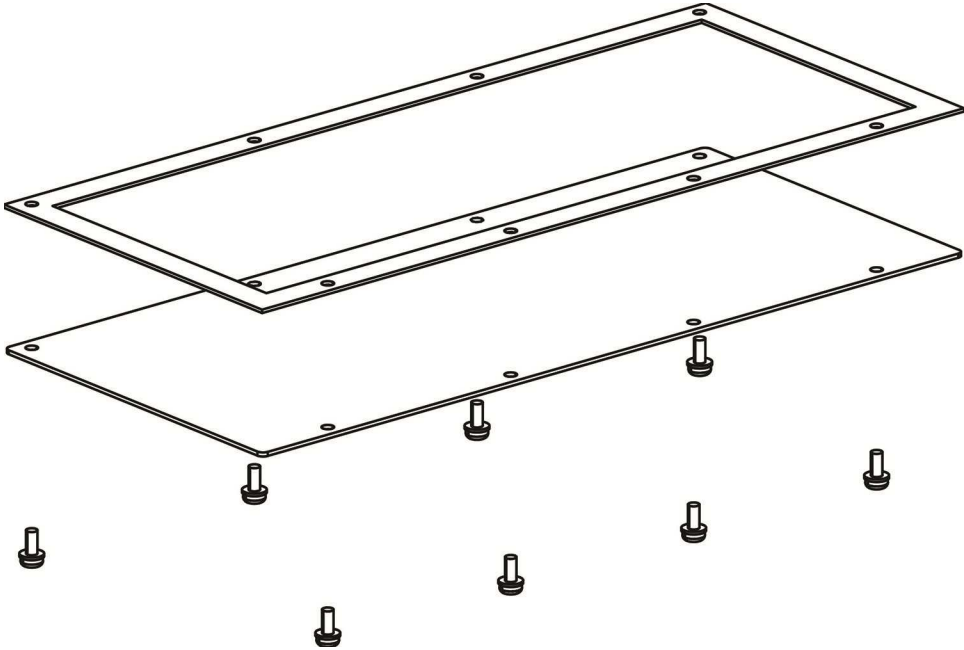
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------|----------|--|-----------|--|
| RFI CARD NO 110-315 KW 400V | 176F3387 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | RFI card only Applies to drives with the H4 RFI option only |

3.2.9 Heatsink Fan



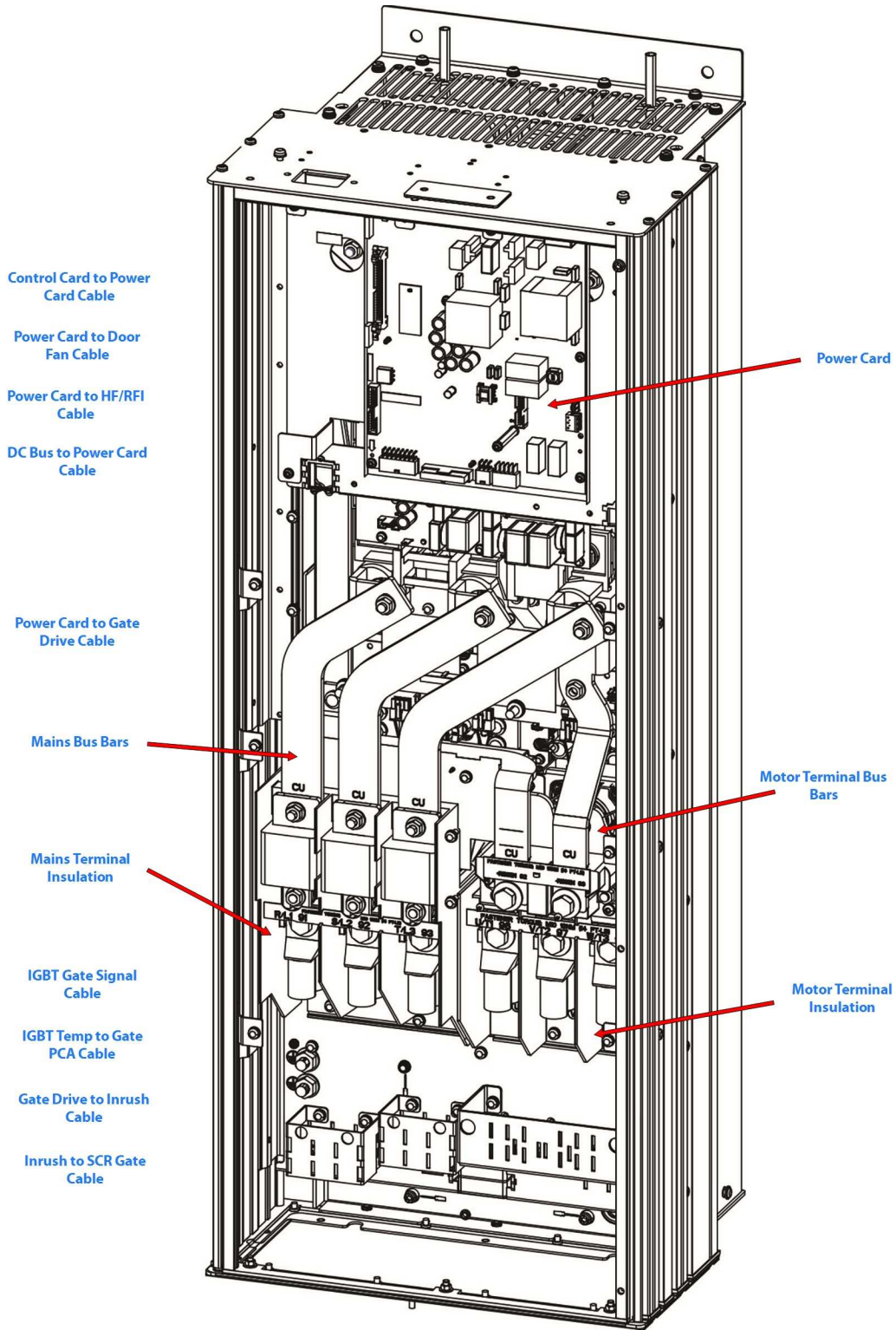
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------|----------|--|-----------|------------------------------|
| HEATSINK FAN DC 172X51 mm | 176F3164 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Heatsink fan only |
| HEATSINK FAN COVER DH FRAMES | 176F3540 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes cover and fasteners |

3.2.10 Gland Plate

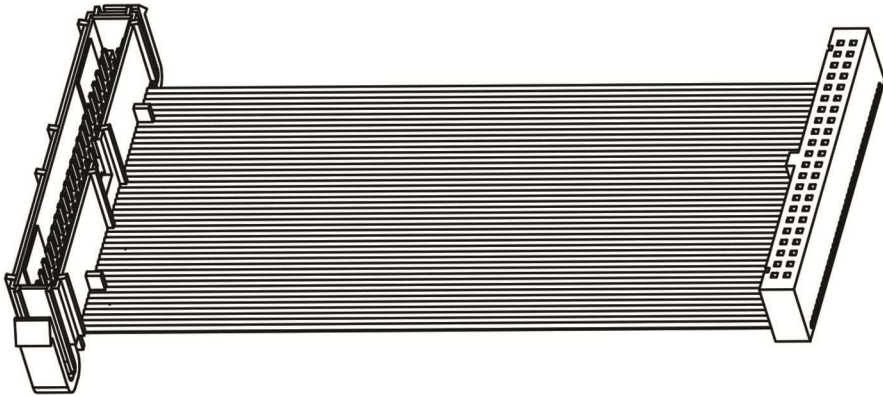


| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------|----------|--|-----------|---------------------------------------|
| GLAND PLATE D2H FRAME | 176F5742 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes plate, gasket, and fasteners |

3.3 VFD Internal Components Level 2

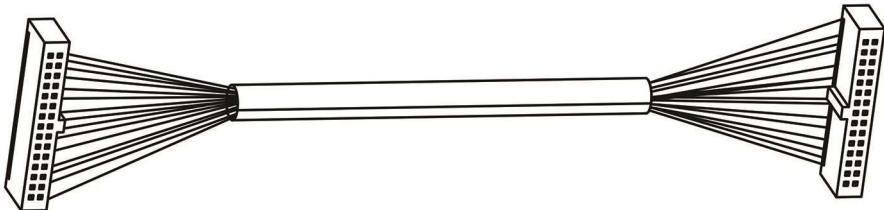


3.3.1 Control Card to Power Card Cable



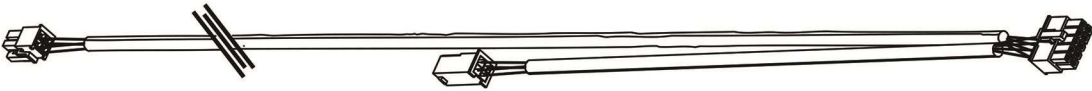
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|------------|
| CABLE CONTROL CARD TO POWER CARD D2H/D4H | 176F3319 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | Cable only |

3.3.2 Power Card to Gate Drive Cable



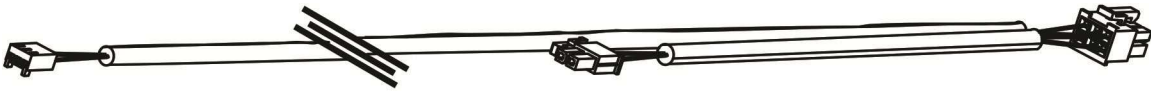
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|------------|
| CABLE POWER CARD TO GATE DRIVE D2H/D4H | 176F3329 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.3 Power Card to Door Fan Cable



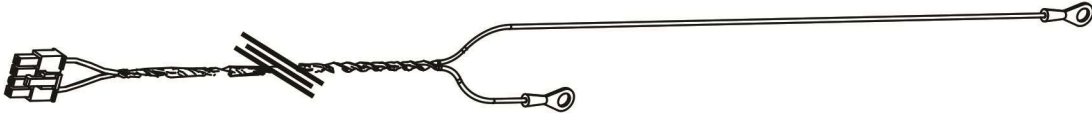
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------------|----------|--|-----------|------------|
| CABLE POWER CARD TO DOOR FAN D2H/D4H | 176F3321 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | Cable only |

3.3.4 Power Card to HF/ RFI Cable



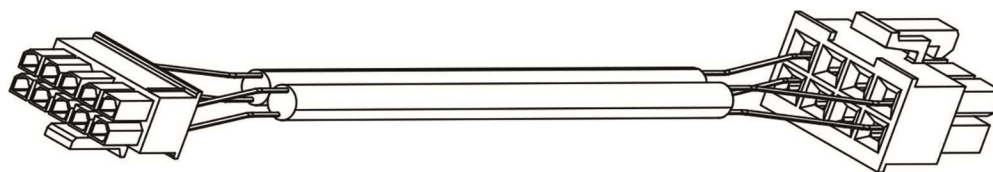
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------------------|----------|--|-----------|------------|
| CABLE POWER CARD TO HF/ RFI D2H/D4H | 176F3327 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.5 DC Bus to Power Card Cable



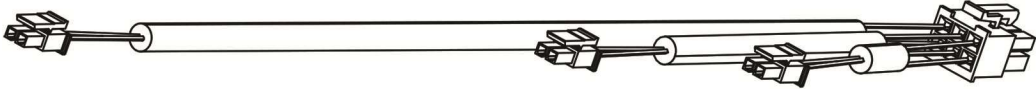
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------------------|----------|--|-----------|------------|
| CABLE DC BUS TO POWER CARD D2H/D4H | 176F3325 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.6 IGBT Gate Signal Cable



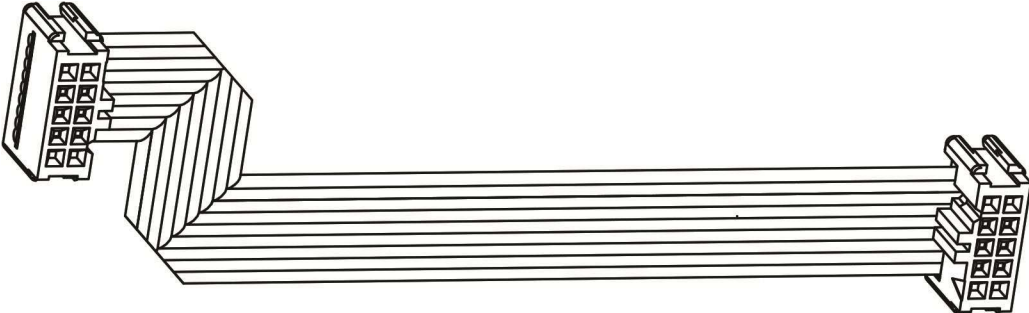
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------|----------|--|-----------|------------|
| CABLE IGBT GATE SIGNAL D2H/D4H | 176F3176 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.7 IGBT Temp to Gate PCA Cable



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------------------|----------|--|-----------|------------|
| CABLE IGBT TEMP TO GATE PCA D2H/D4H | 176F3178 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.8 Gate Drive to Inrush Cable



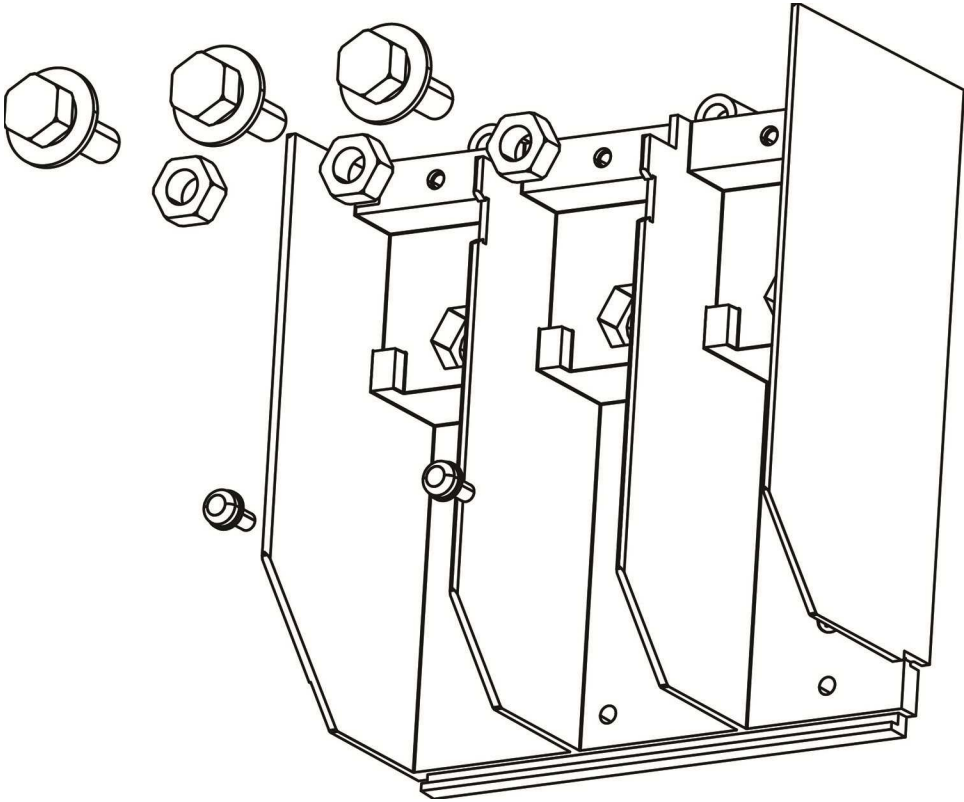
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------------------|----------|--|-----------|------------|
| CABLE GATE DRIVE TO INRUSH D2H/D4H | 176F3332 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.9 Inrush to SCR Gate Cable



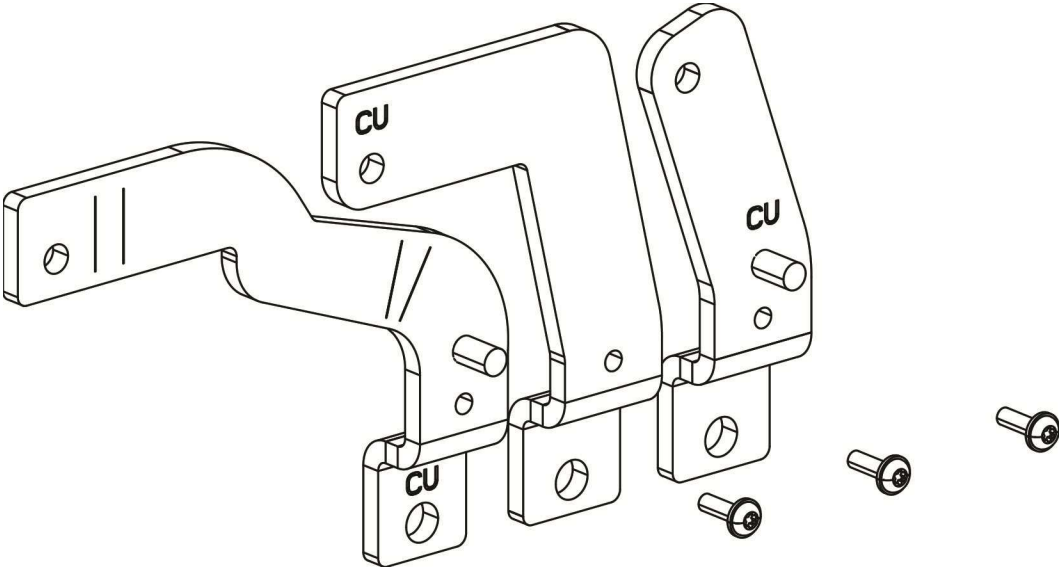
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|----------------------------------|----------|--|-----------|------------|
| CABLE INRUSH TO SCR GATE D2H/D4H | 176F3336 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Cable only |

3.3.10 Motor Terminal Insulation



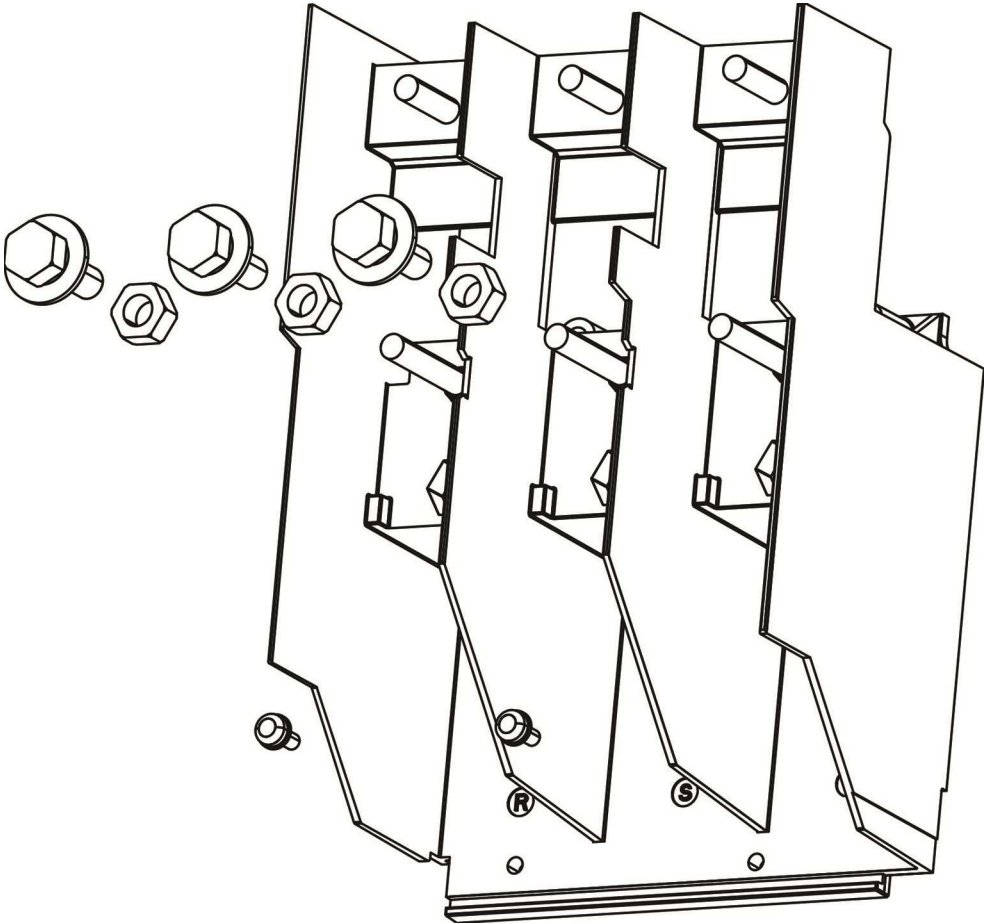
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------------------|----------|--|-----------|-----------------------------------|
| INSULATION MOTOR TERMINALS D2H/D4H | 176F3370 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes insulation and fasteners |

3.3.11 Motor Terminal Bus Bar



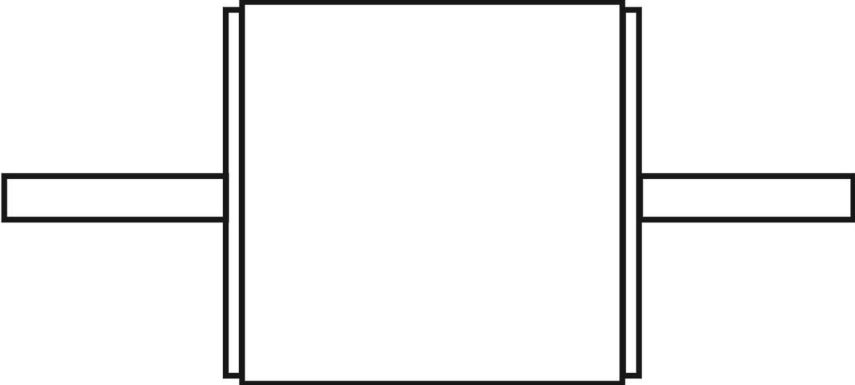
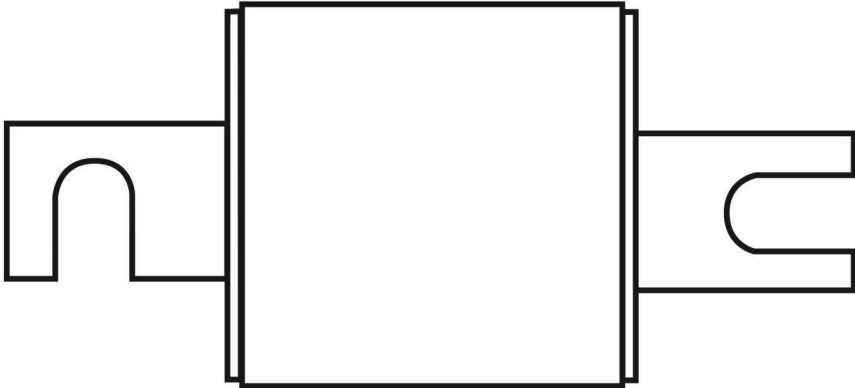
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|-----------------------------------|
| BUS BAR MOTOR TERMINALS U,V,W D2H/D4H | 176F3368 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes insulation and fasteners |

3.3.12 Mains Terminal Insulation



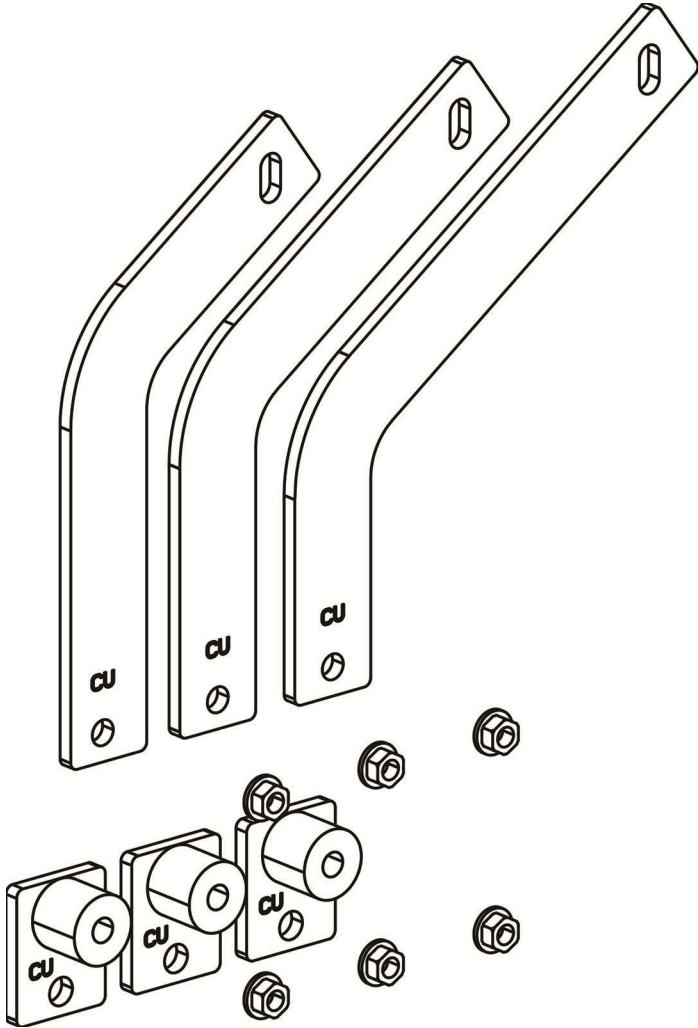
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------------|----------|--|-----------|-----------------------------------|
| INSULATION MAINS TERMINALS D2H/D4H | 176F3369 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes insulation and fasteners |

3.3.13 Main Fuse



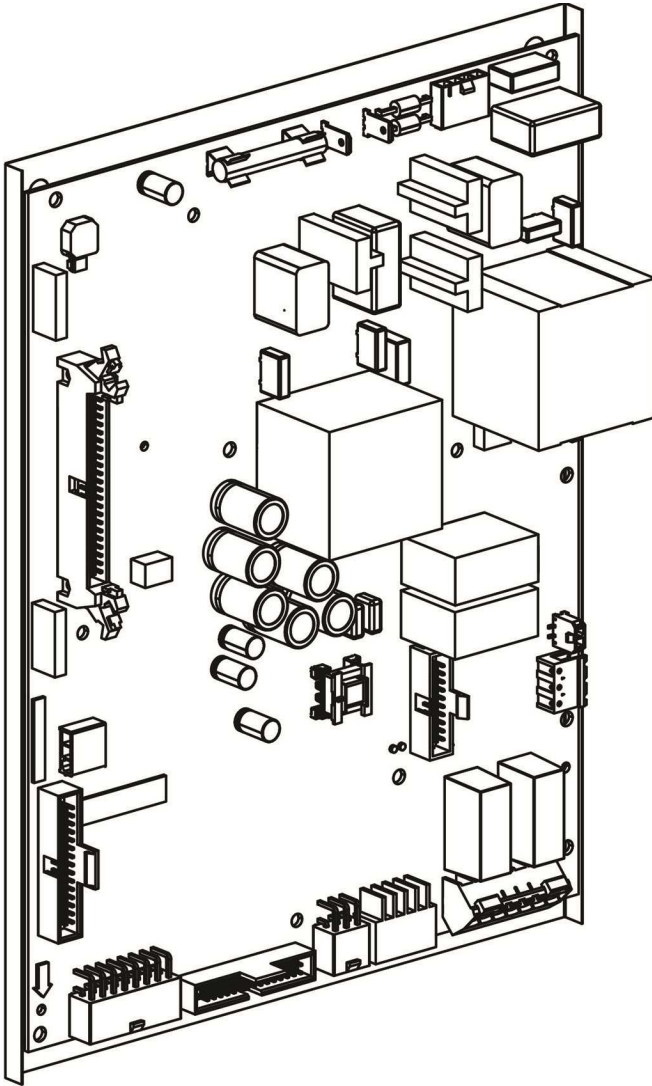
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-------------------------------------|----------|--|-----------|-------------------|
| MAINS FUSE, 630A, 700V, SQUARE BODY | 176F8335 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes one fuse |

3.3.14 Mains Bus Bar



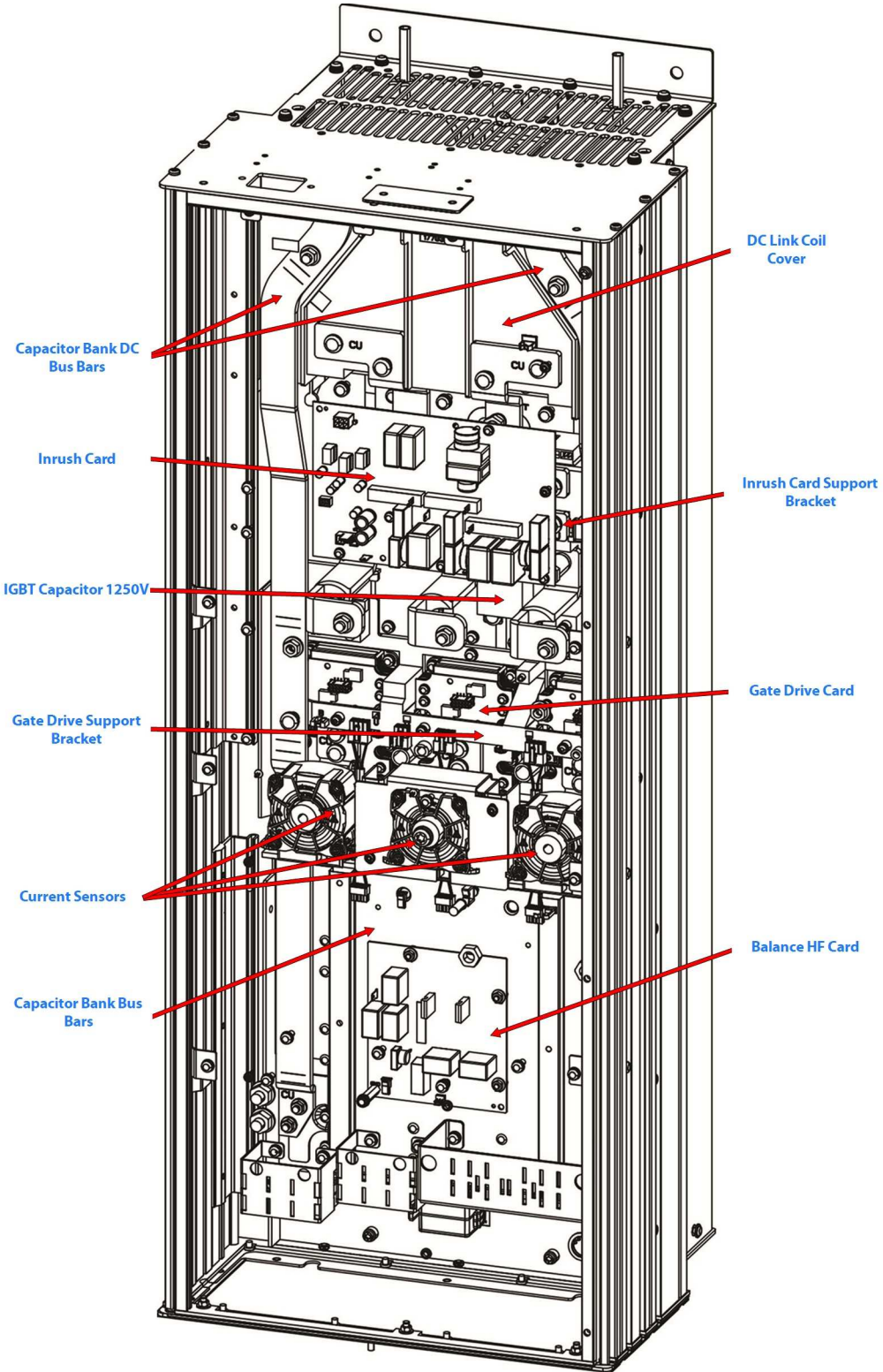
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|---|
| BUS BAR MAINS,FUSE,NO RFI D2H/D4H | 176F3372 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes large bus bars, small fuse bus bars, and fasteners |
| BUS BAR MAINS,FUSE,RFI D2H/D4H | 176F3374 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes small fuse bus bars and fasteners only |

3.3.15 Power Card

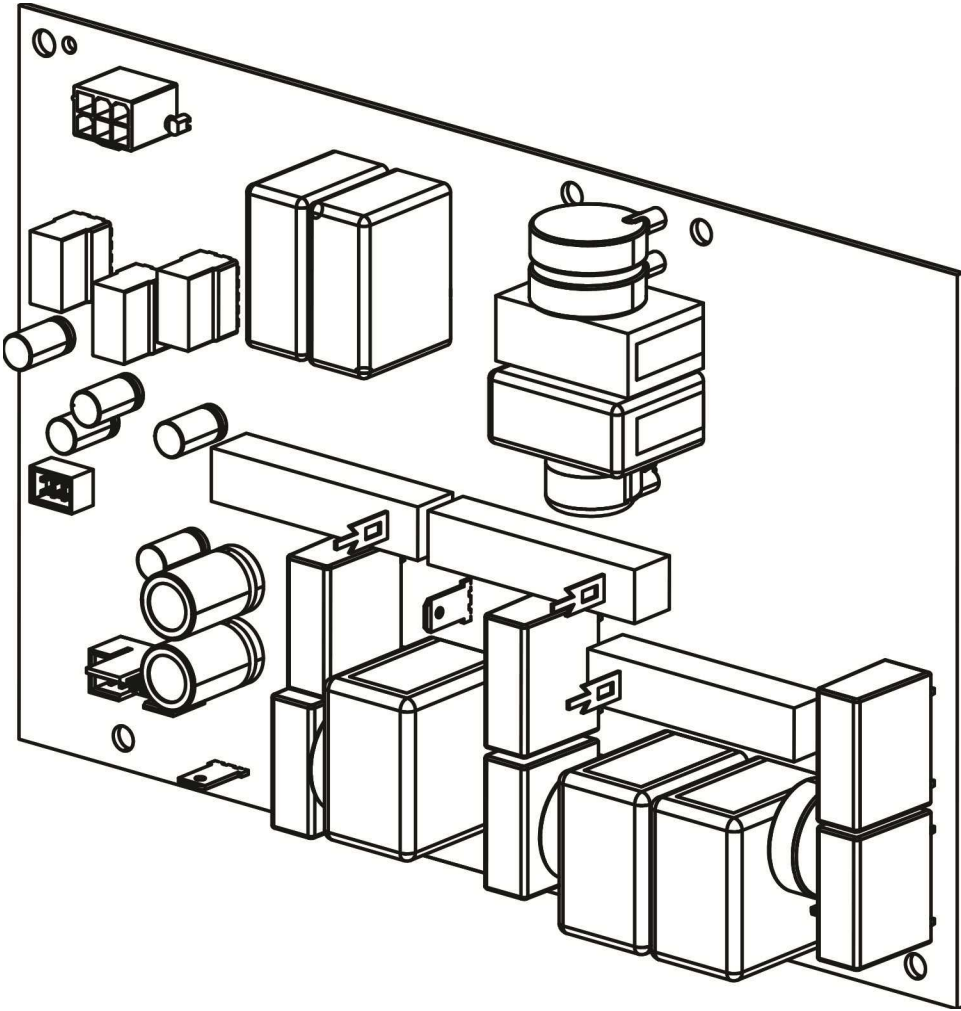


| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|--|
| POWER CARD TURBOCOR N262 380-500 VAC | 176F6445 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes power card only. Specific to Turbocor products |

3.4 VFD Internal Components Level 3

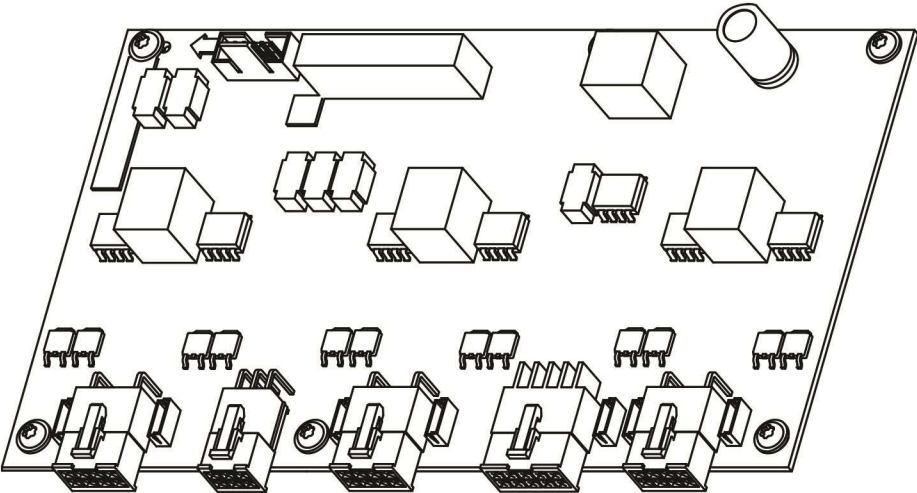


3.4.1 Inrush Card



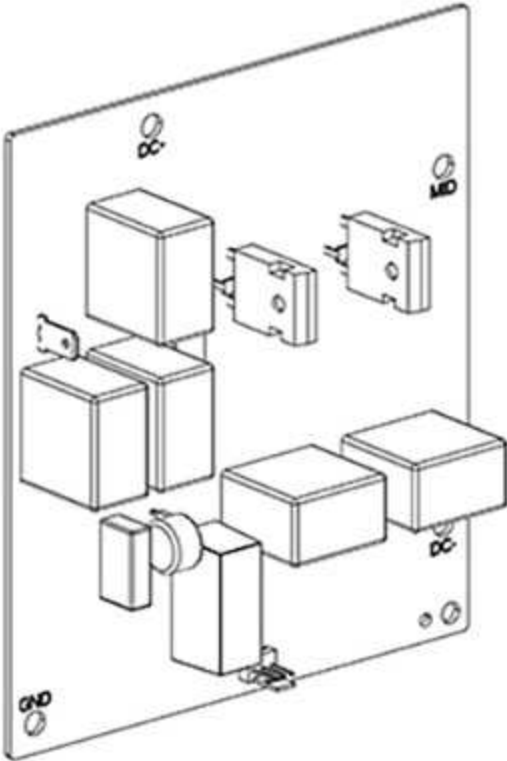
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------------|----------|--|-----------|-----------|
| INRUSH CARD NO 110- 315KW 400V | 176F3159 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Card only |

3.4.2 Gate Drive Card



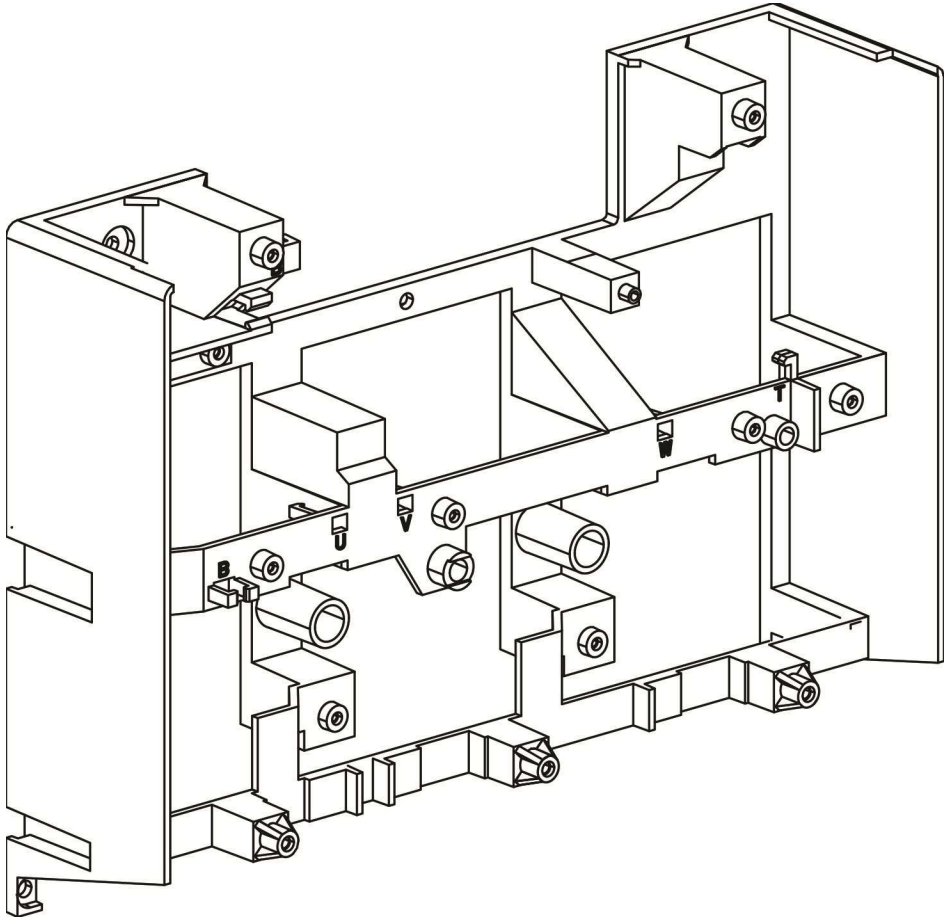
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------------|----------|--|-----------|-----------|
| GATE DRIVE CARD NO 110- 315KW 400V | 176F3160 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Card only |

3.4.3 Balance/HF Card



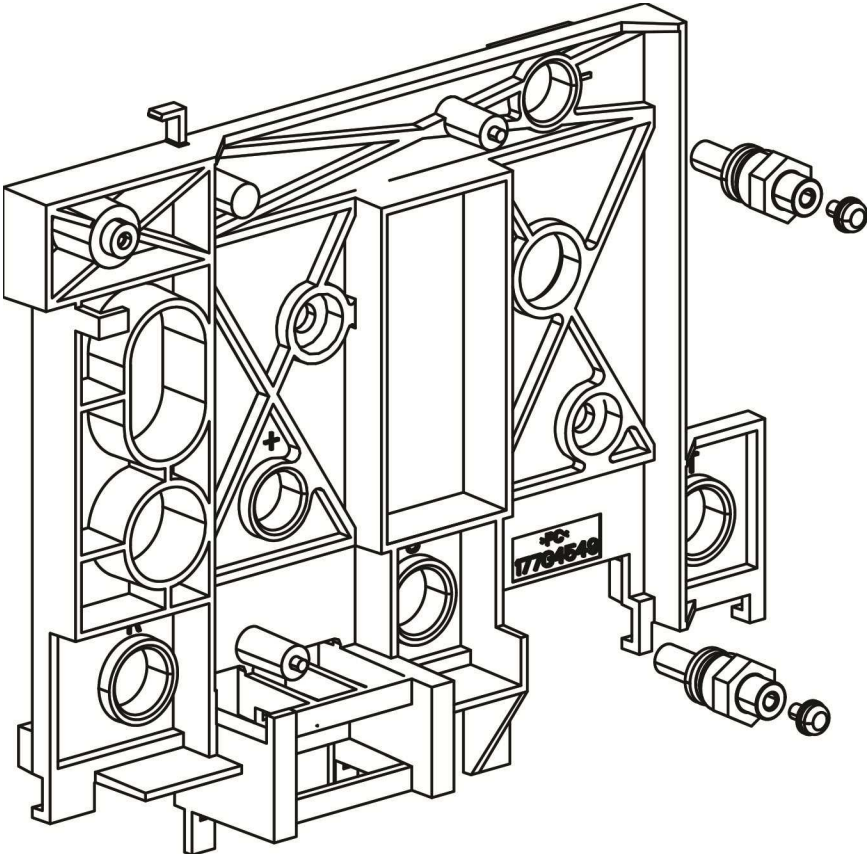
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---------------------------------------|----------|--|-----------|-----------|
| BALANCE/HF CARD NO 110- 315KW 400V | 176F3161 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Card only |

3.4.4 Gate Drive Support Bracket



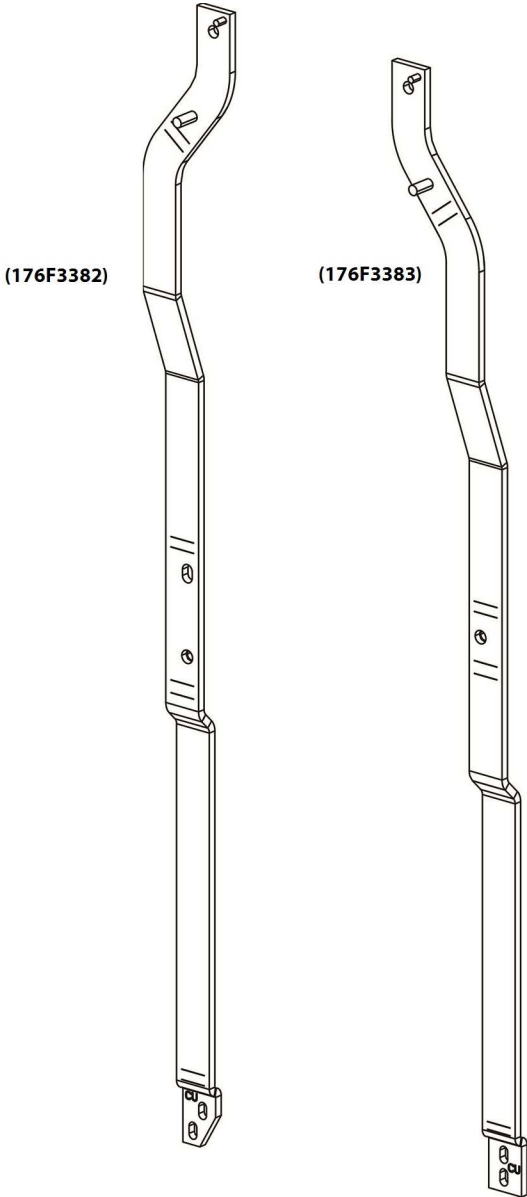
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|--------------|
| BRACKET GATE DRIVE SUPPORT D2H/D4H | 176F3344 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Bracket only |

3.4.5 Inrush Card Support Bracket



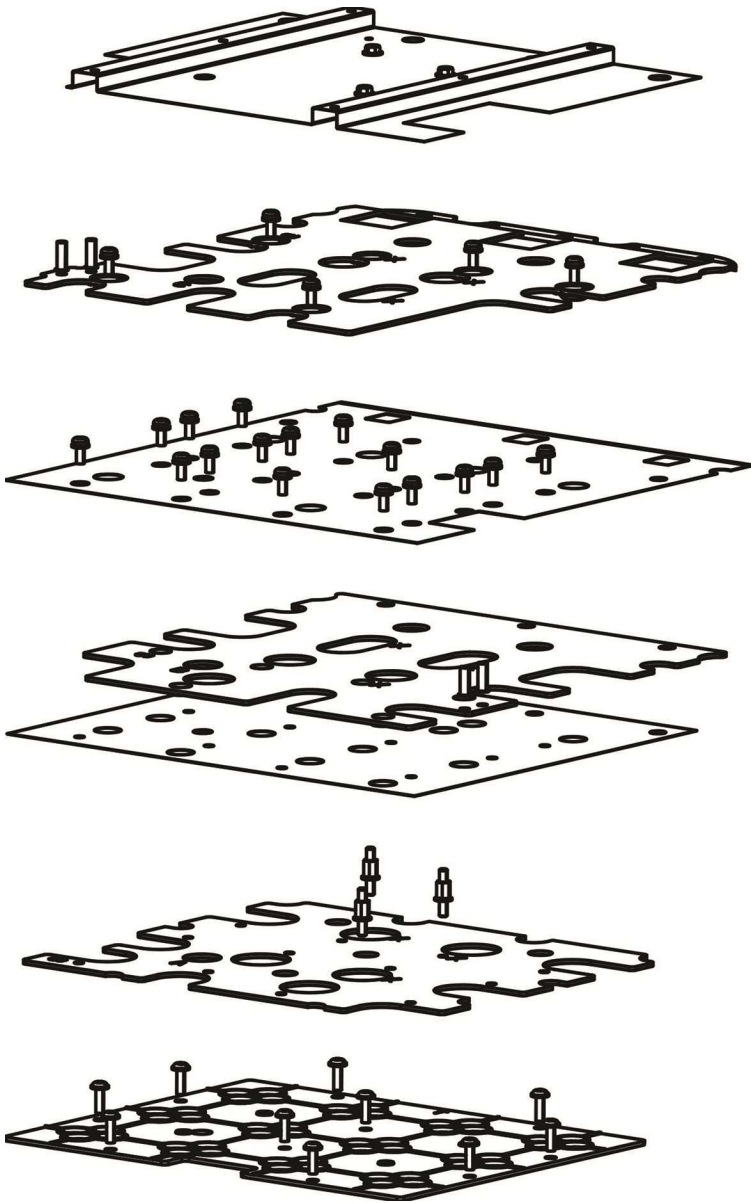
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------------|----------|--|-----------|--------------------------------|
| BRACKET INRUSH SUPPORT D2H/D4H | 176F3361 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes bracket and fasteners |

3.4.6 Capacitor Bank DC Bus Bar



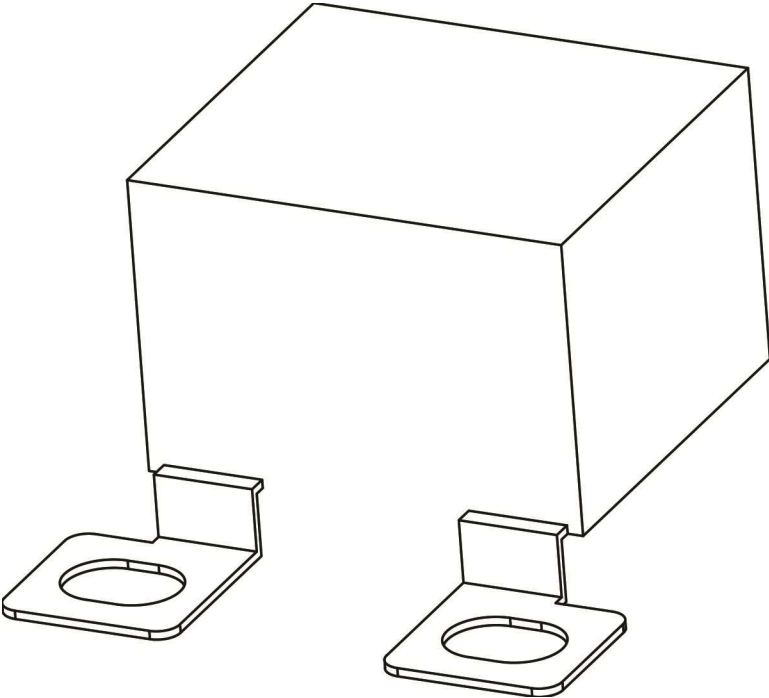
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|-----------------------------|
| BUS BAR DC+ INDUCTOR TO CAP BANK D2H/D4H | 176F3382 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes left bus bar only |
| BUS BAR DC- INDUCTOR TO CAP BANK D2H/D4H | 176F3383 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes right bus bar only |

3.4.7 Capacitor Bank Bus Bar



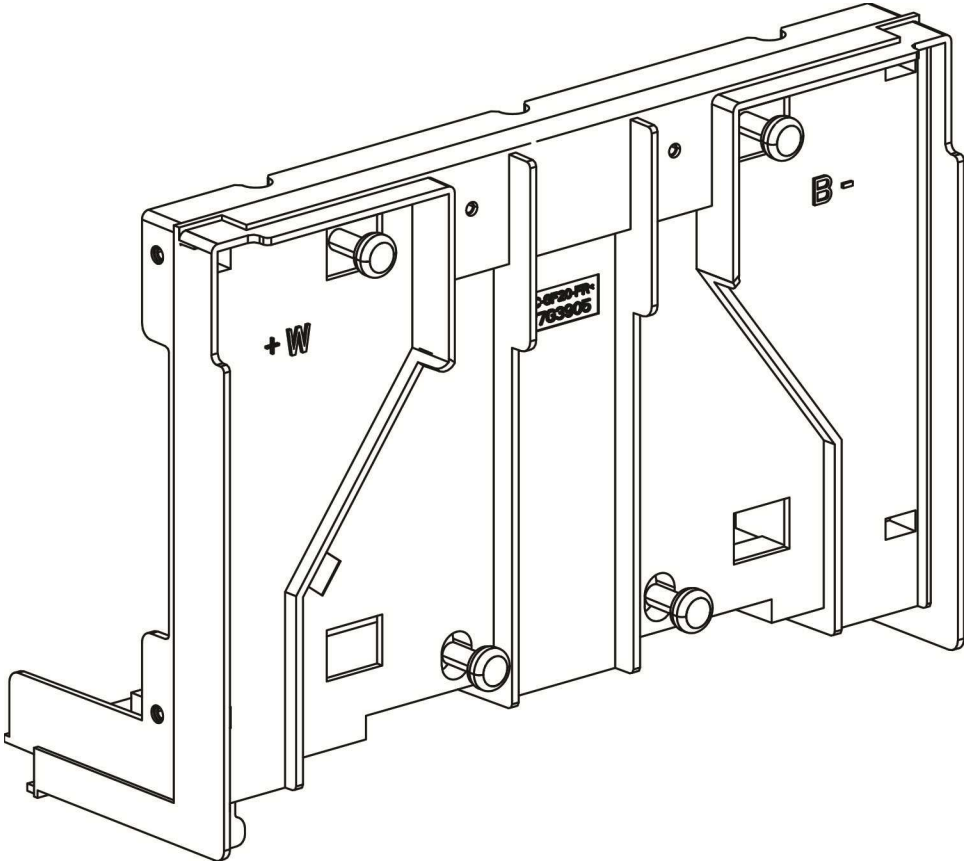
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|--|
| BUS BAR ASSEMBLY CAP BANK 400V D2H/D4H | 176F3386 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes bus bar plates, insulation, and fasteners |

3.4.8 IGBT Capacitor 1250V



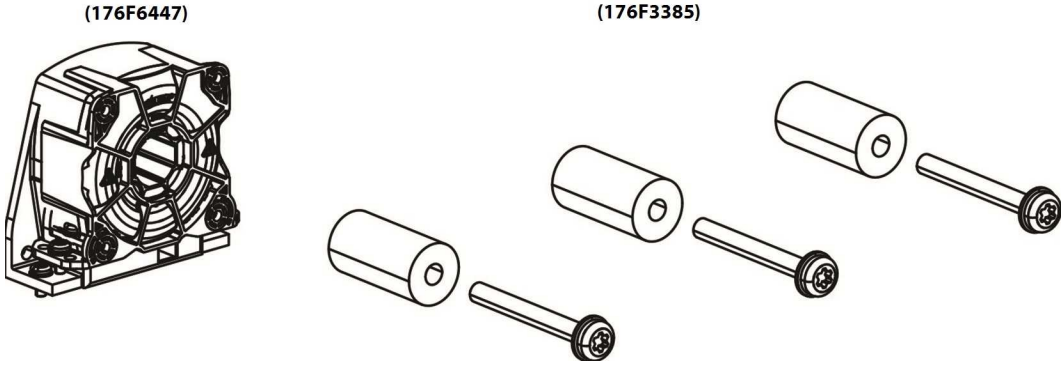
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|----------------|
| IGBT SNUBBER CAP 1250V 1.0μF WIDE MOUNT | 176F3427 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Capacitor only |

3.4.9 DC Link Coil Cover



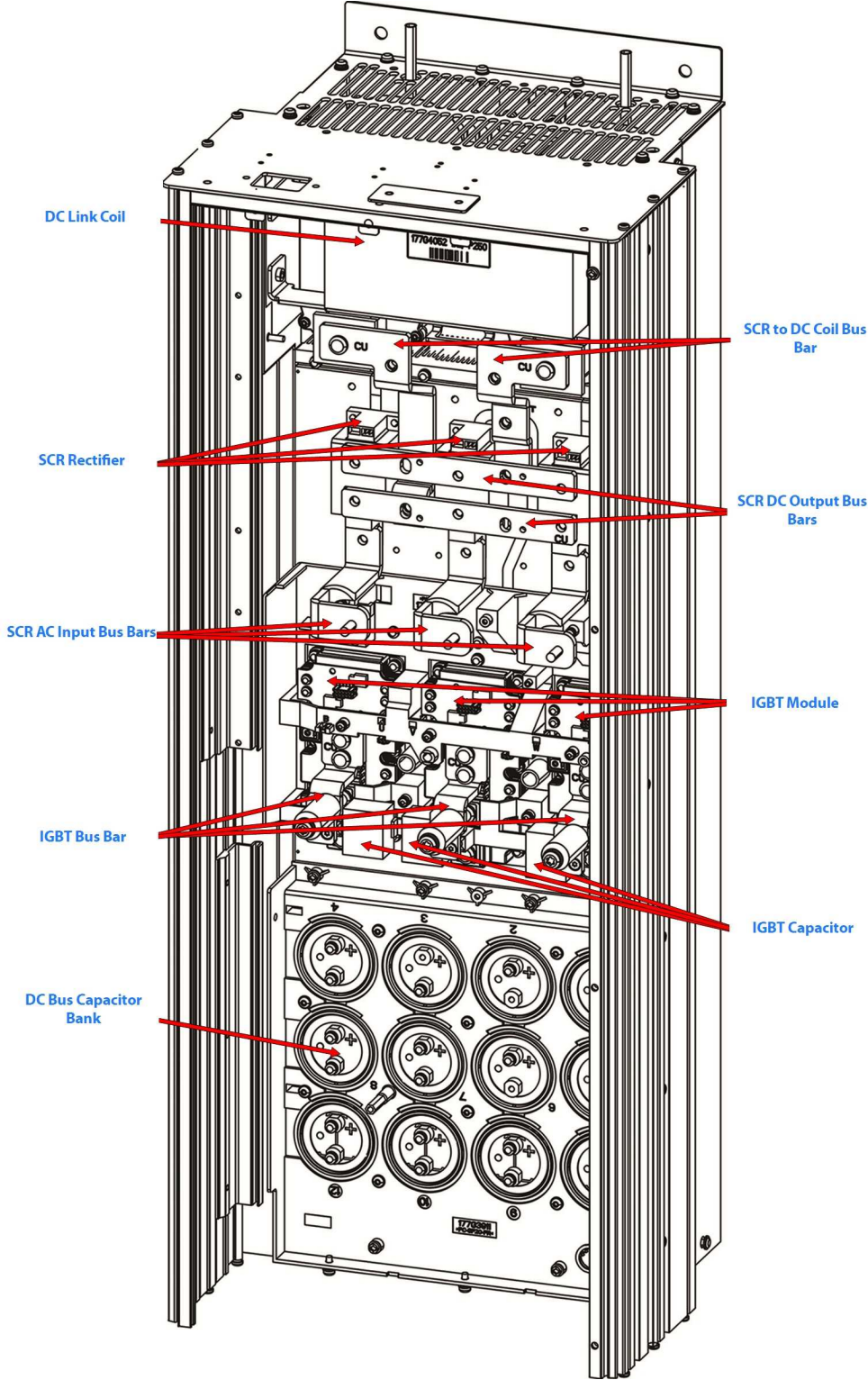
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------------|----------|--|-----------|------------------------------|
| COVER DC LINK COIL LARGE DH FRAME | 176F3548 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes cover and fasteners |

3.4.10 Current Sensor

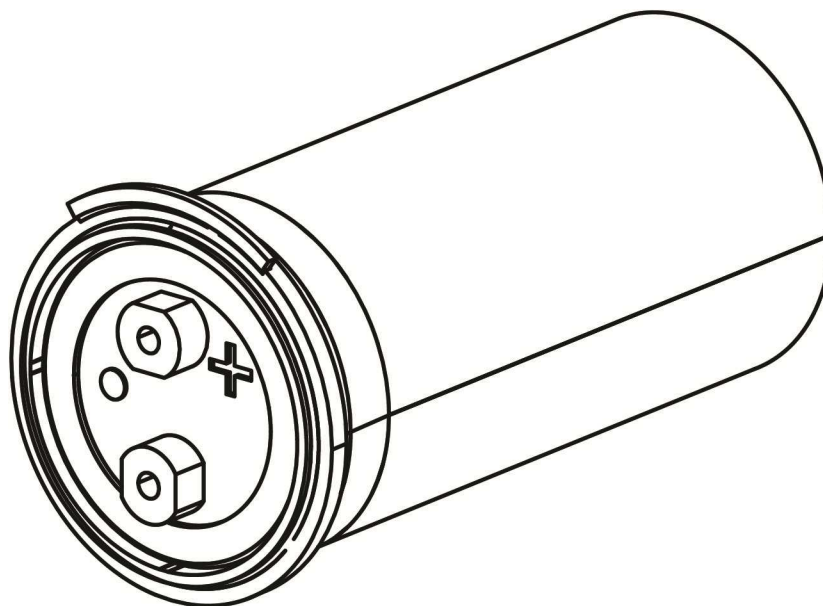


| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|--|
| CURRENT SENSOR | 176F6447 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | One current sensor |
| BUS BAR ASSEMBLY CURRENT SENSOR D2H/D4H | 176F3385 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes three current sensor bus bars and fasteners |

3.5 VFD Internal Components Level 4

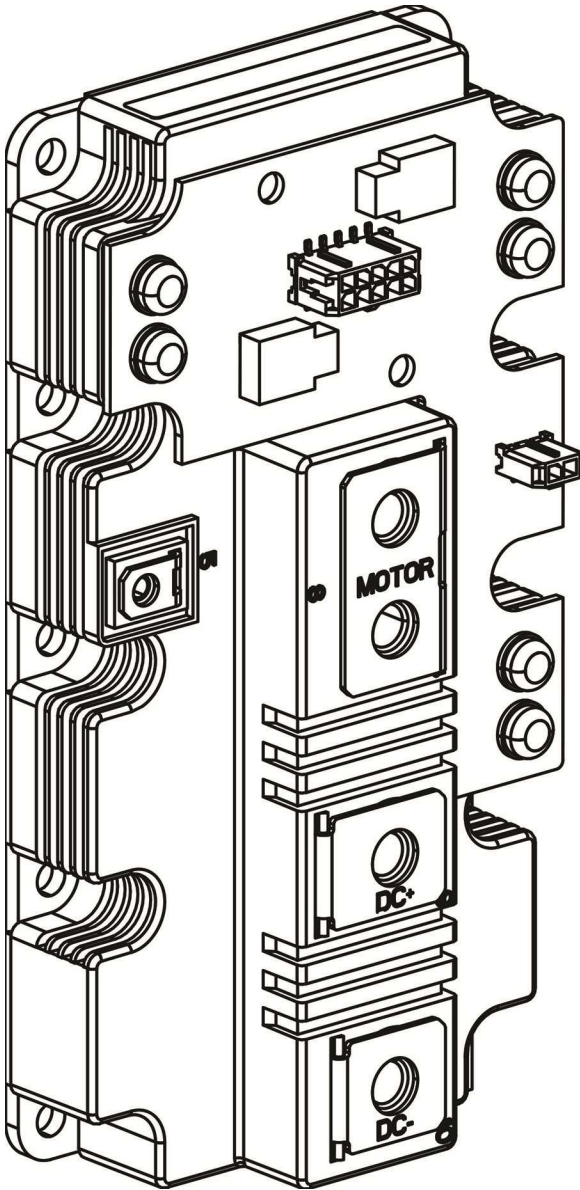


3.5.1 DC Bus Capacitor



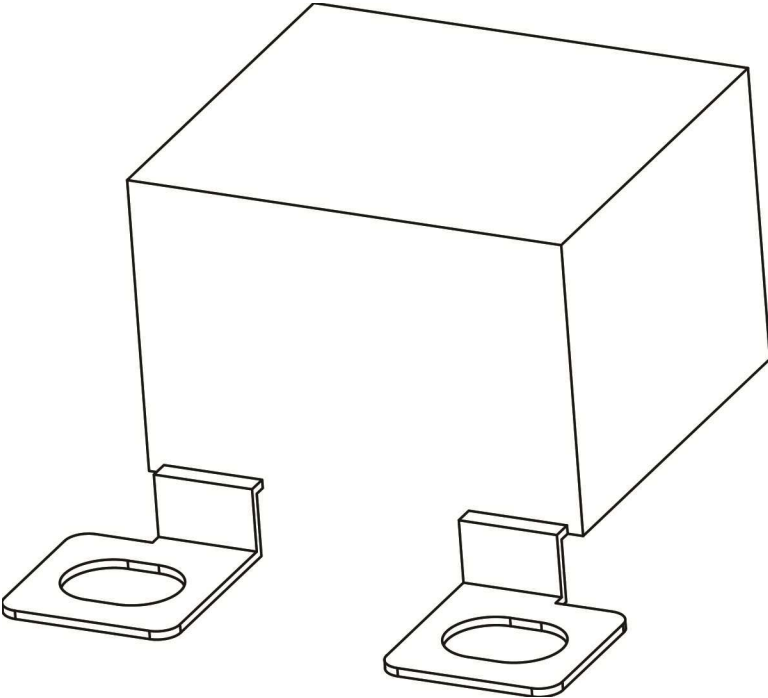
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|---------------------------------------|
| DC BUS CAP 4700 μ F 450V SINGLE IN HOUSING | 176F3163 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes one capacitor and one gasket |

3.5.2 IGBT Module



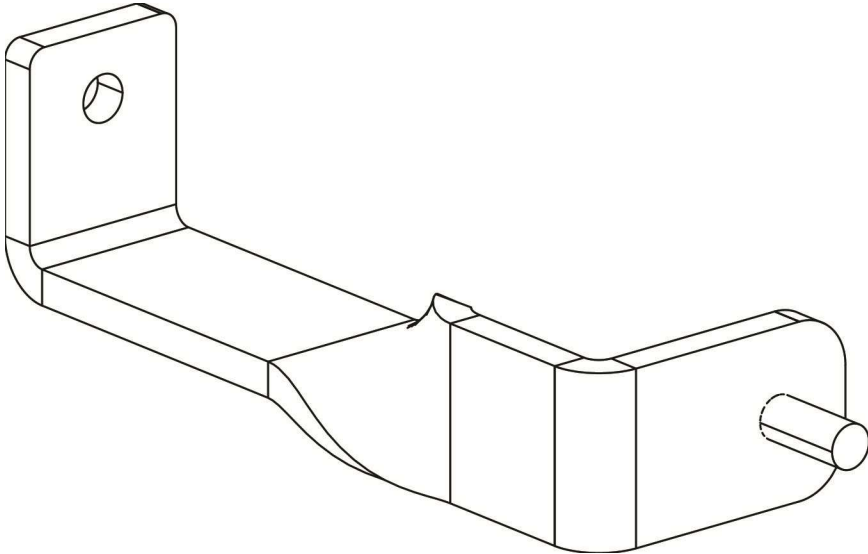
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|-----------------------------|
| IGBT DUAL MODULE 900AMP T4/T5 DRIVE | 176F3365 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes IGBT and fasteners |

3.5.3 IGBT Capacitor



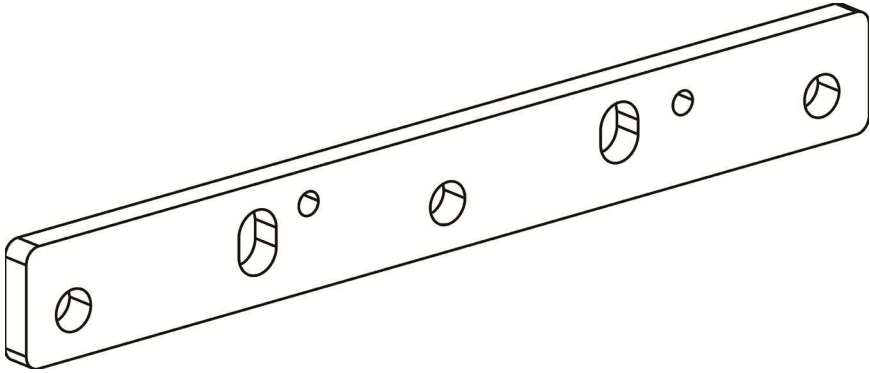
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|----------------|
| IGBT SNUBBER CAP 1000V 1.5 μ F WIDE MOUNT | 176F3162 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Capacitor only |

3.5.4 SCR AC Input Bus Bar



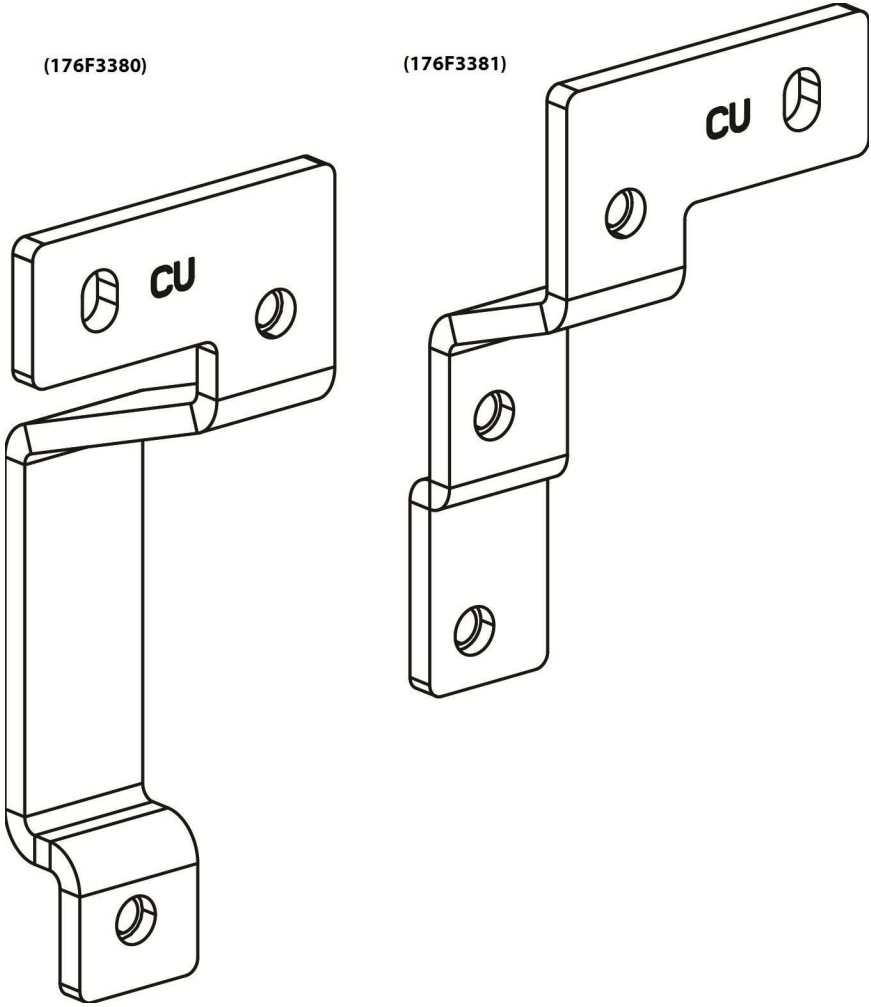
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--|----------|--|-----------|------------------|
| BUS BAR SCR AC INPUT SMALL D2H/D4H | 176F3376 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | One bus bar only |

3.5.5 SCR DC Output Bus Bar



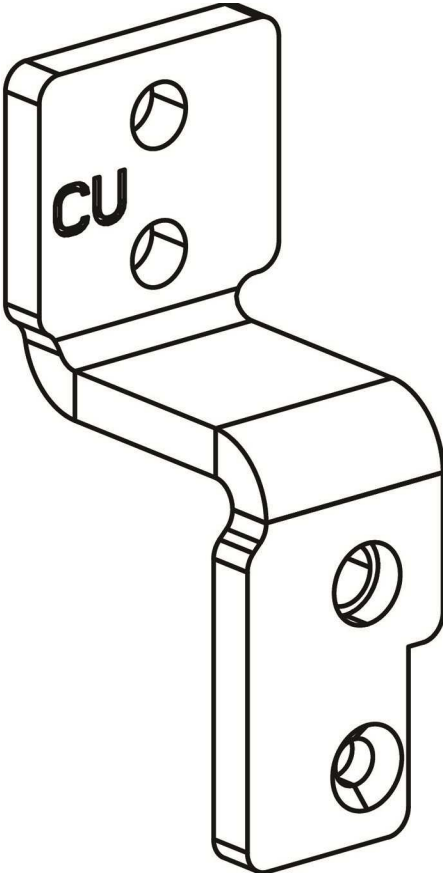
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|---|----------|--|-----------|------------------|
| BUS BAR SCR DC OUTPUT SMALL D2H/D4H | 176F3378 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | One bus bar only |

3.5.6 SCR to DC Coil Bus Bar



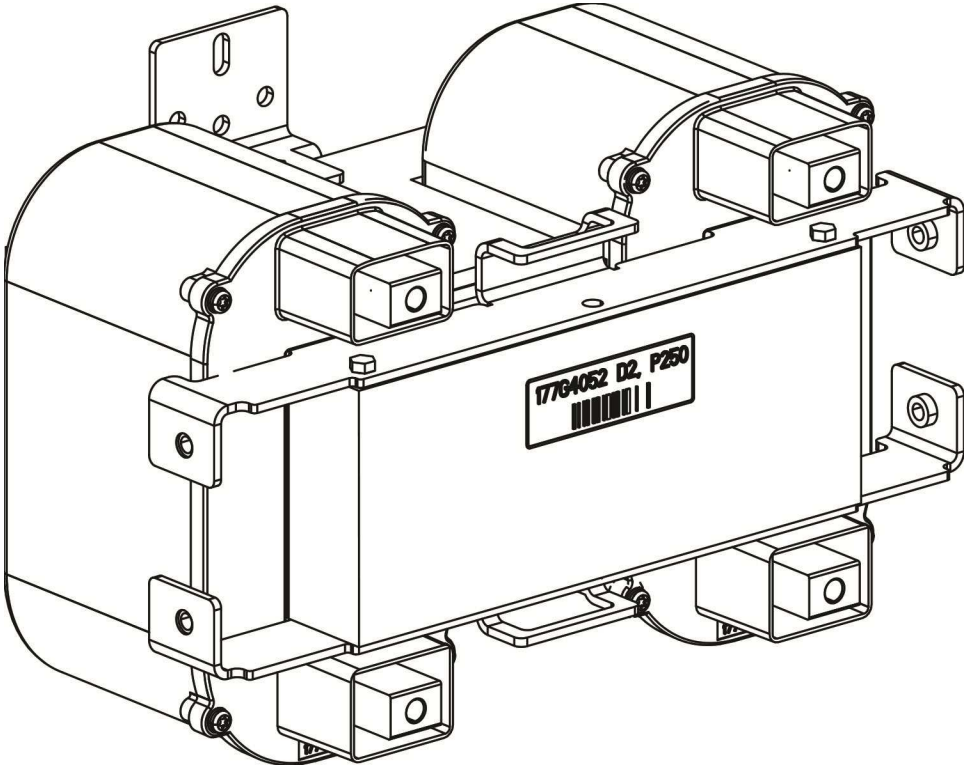
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------------------|----------|--|-----------|-----------------------------|
| BUS BAR DC+ SCR TO DC COIL D2H/D4H | 176F3380 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes left bus bar only |
| BUS BAR DC- SCR TO DC COIL D2H/D4H | 176F3381 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes right bus bar only |

3.5.7 IGBT Bus Bar



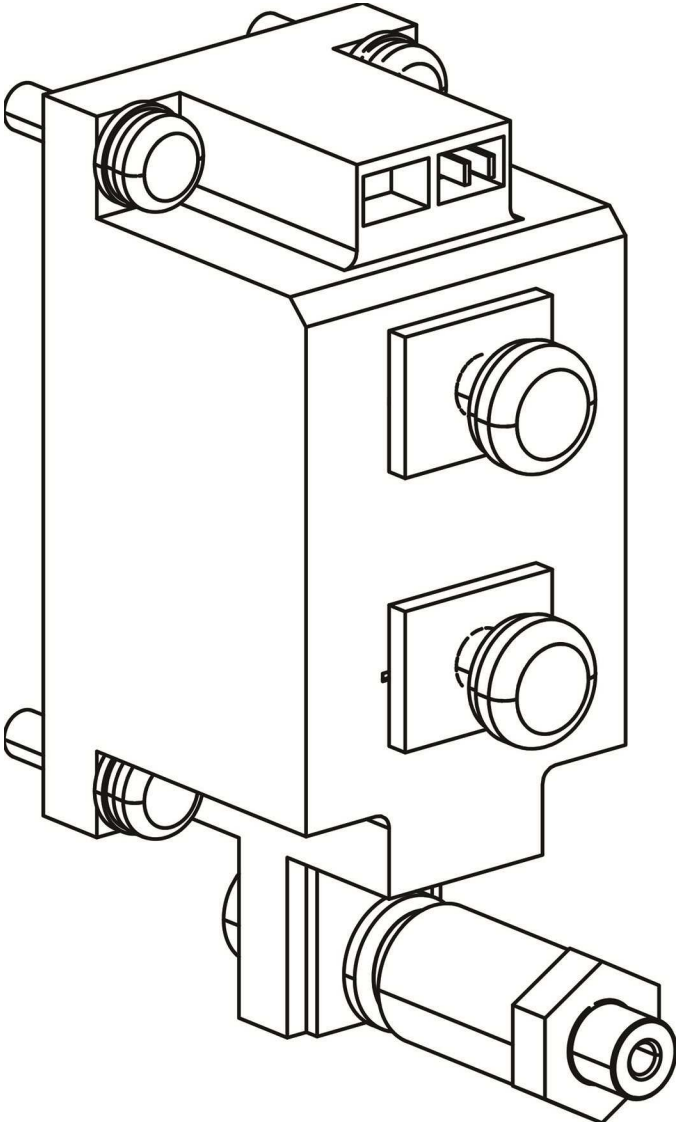
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------|----------|--|-----------|------------------|
| BUS BAR IGBT AC OUTPUT D2H/D4H | 176F3384 | <ul style="list-style-type: none"> • VTT1200 N262 • VTX1600 N262 | N/A | One bus bar only |

3.5.8 DC Link Coil



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|--------------------------------------|----------|--|-----------|----------------------------|
| DC LINK COIL LARGE DH FRAME 65 μH | 176F5724 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | DC link coil assembly only |

3.5.9 SCR Rectifier

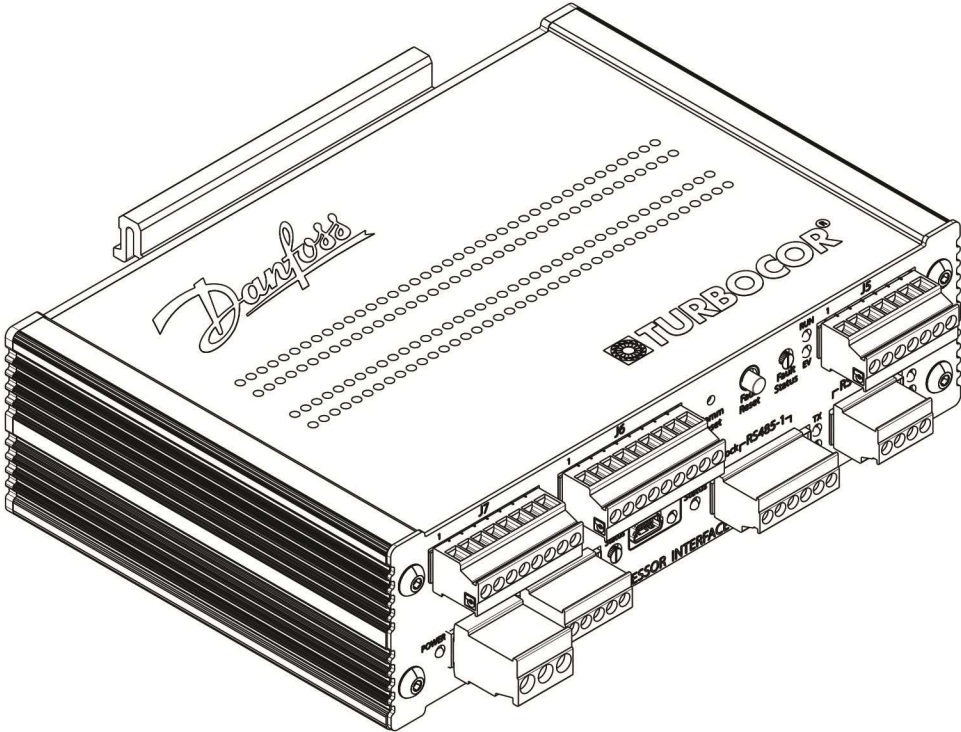


| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------|----------|--|-----------|--------------------------------------|
| RECTIFIER SCR 330A 1600V | 176F8320 | <ul style="list-style-type: none"> VTT1200 N262 VTX1600 N262 | N/A | Includes SCR rectifier and fasteners |

Chapter 4.0 External Modules/Components

4.1 Compressor Interface Module (CIM)

The Compressor Interface Module (CIM) is where all field connections, such as RS485, EXV, and analog / digital wiring, is made to communicate with the compressor.



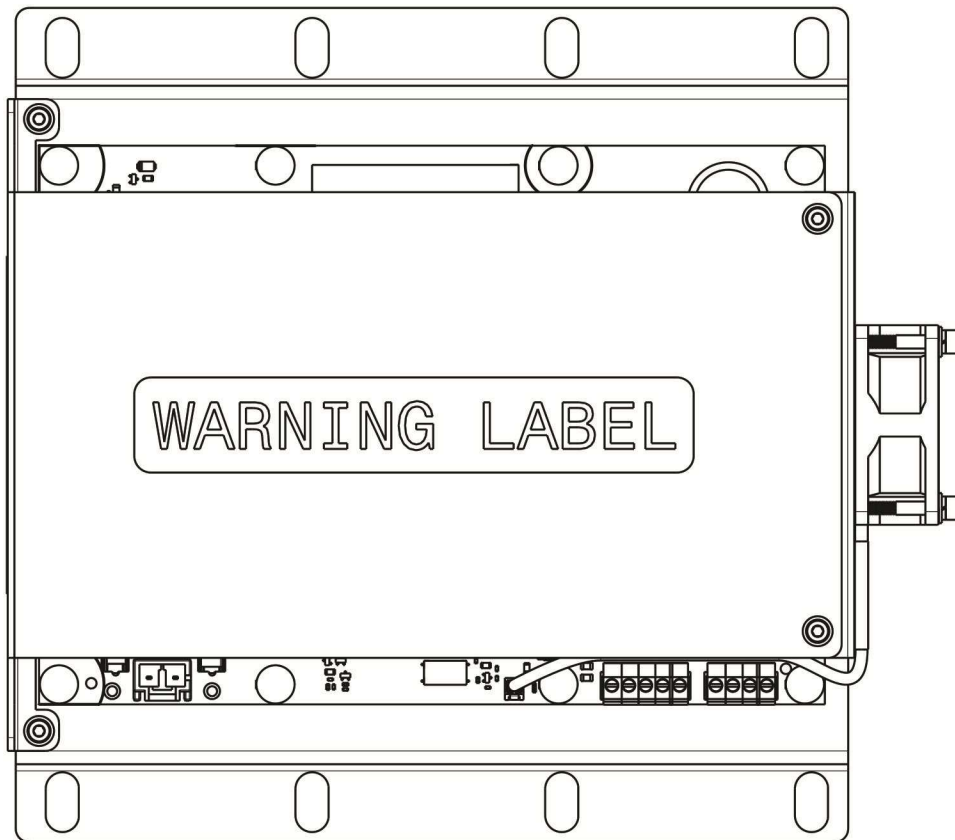
NOTE:

The CIM will be supplied with current software and may need field programming. The CIM is software specific and must match the CCM software version.

| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------------------|----------|--|-----------|---|
| COMPRESSOR INTERFACE MODULE | 110110-1 | <ul style="list-style-type: none"> • VTT1200 • VTX1600 | N/A | CIM only With connection number and "Pin 1" labels |

4.2 DC-DC Module

The HV DC-DC Converter's onboard circuits are powered by the DC bus voltage from the drive. The DC-DC Converter delivers +24V DC (with respect to 0V) to the Compressor Control Module (CCM), and HV+ (+250V DC with respect to HV-) to the PWM Amplifier.



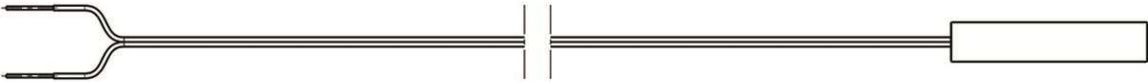
| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|-----------------|----------|--|-----------|---|
| DC-DC MODULE | 110107 | <ul style="list-style-type: none"> VTT1200 VTX1600 | N/A | DC-DC only with terminal block connectors |
| DC-DC FAN | 110108 | <ul style="list-style-type: none"> VTT1200 VTX1600 | N/A | DC-DC fan only |
| FUSE, 2A, 1000V | 100084 | <ul style="list-style-type: none"> VTT1200 VTX1600 | N/A | Includes two fuses |

4.3 Cooling Exit Temperature Sensor

This cooling sensor is to be used on the VT Series compressors. This temperature sensor ensures proper accuracy of the axial position sensor.

NOTE

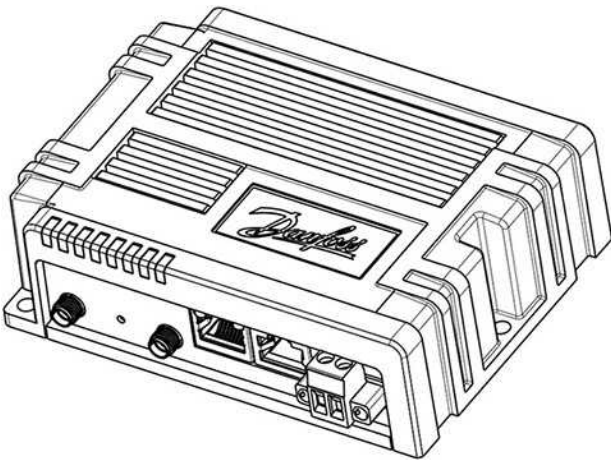
This sensor can only be used with Firmware 1.8 on VTT and VTX prior to Rev C.
 VTX1600 Major C compressors use an internal temperature sensor; therefore, this sensor does **not** apply.



| DESCRIPTION | PART NO. | APPLIES TO | MAJOR REV | COMMENT |
|------------------------------------|----------|---|-----------|--|
| PIPE TEMPERATURE SENSOR, VT SERIES | 100283-1 | <ul style="list-style-type: none"> • VTT1200 | All | Includes sensor - 10 meters, thermal tape, tube clamp, and thermal paste |
| PIPE TEMPERATURE SENSOR, VT SERIES | 100283-1 | <ul style="list-style-type: none"> • VTX1600 | A & B | Includes sensor - 10 meters, thermal tape, tube clamp, and thermal paste |

Appendix A TurbocorCloud® Kits

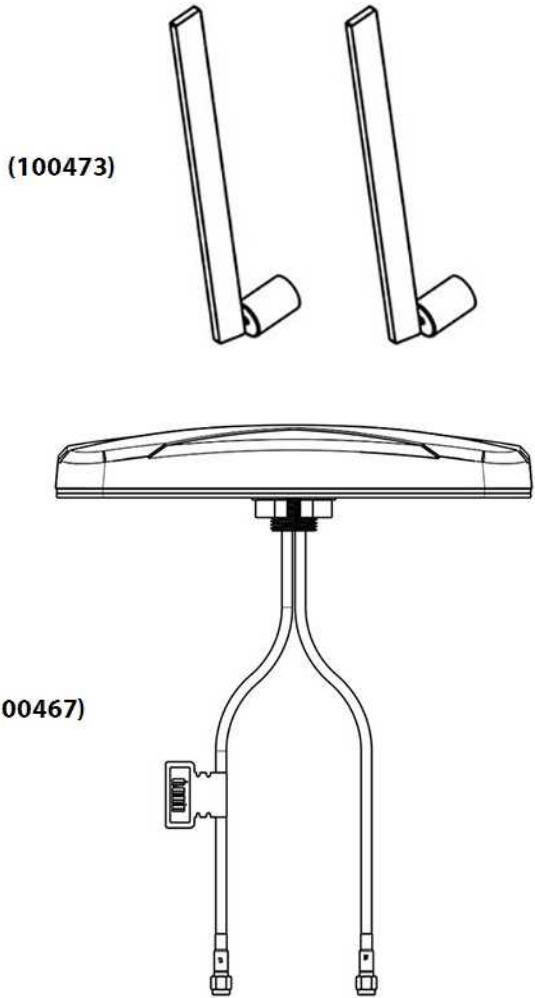
A.1 TurbocorCloud Gateway



| NOTE | |
|---|--|
| <p>Operation of the TurbocorCloud Gateway will require the following:</p> <ul style="list-style-type: none"> • SIM Card when connecting to the cellular network (must use P/N 100476) • Antenna to connect to the cellular network • Communication cables (locally sourced, site specific) <p>Refer to the TurbocorCloud Installation and Commissioning Manual for the required components for operation.</p> | |

| DESCRIPTION | PART NO. | MAJOR REV | COMMENT |
|-----------------------|----------|-----------|---|
| TurbocorCloud GATEWAY | 100471 | ALL | Includes TurbocorCloud Gateway and mounting clip only |

A.3 Antenna



| DESCRIPTION | PART NO. | MAJOR REV | COMMENT |
|--------------------------------------|----------|-----------|-----------------------|
| TurbocorCloud DIRECT CONNECT ANTENNA | 100473 | ALL | Includes two antennas |
| TurbocorCloud EXT. ANTENNA | 100467 | ALL | Includes antenna only |

Appendix B Recently Obsoleted Kit Reference

| OBSOLETE KIT | | OBSOLETE KIT APPLICATION | REPLACEMENT KIT | |
|--------------|---|-------------------------------------|---|--|
| PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
| 100283 | PIPE TEMPERATURE SENSOR, VT SERIES (3 meters) | VTT/VTX, All revisions | 100283-1 | PIPE TEMPERATURE SENSOR, VT SERIES (10 meters) |
| 110026 | FEEDTHROUGH POWER FRONT BEARING | VTT, All revisions VTX Rev A & B | No Replacement | |
| 110050 | KIT - O-RING TOUCHDOWN BEARING ASSY | VTT Rev: A, B, C | 110094 (VTT) / 112037 (VTX) | O-RINGS, COMPLETE COMP |
| 110052 | KIT - O-RING BEARING HARNESS & SENSOR | VTT Rev: A, B, C | 110094 (VTT) / 112037 (VTX) | O-RINGS, COMPLETE COMP |
| 110062 | KIT - SERVICE ELECTRONICS | VTT Rev: A & B | 110109 | SERVICE ELECTRONICS |
| 110068 | CABLE BEARING SENSOR FRONT | VTT, All revisions VTX Rev A & B | No Replacement | |
| 110070 | STATOR TEMPERATURE SENSOR FEEDTHROUGH | VTT/VTX, All revisions | No Replacement | |
| 110071 | O-RING END CAP | VTT/VTX, All revisions | 110112 | O-RING END CAP |
| 110078 | KIT - O-RING DISCHARGE | VTT Rev: A, B, C | 110120 (VTT Rev A) 110076 (VTT Rev B & C) 112036 (VTX) | O-RING, PORTS CONN |
| 110080 | SENSOR PRESS/TEMP DISCHARGE | VTT/VTX, All revisions | 100037-2 | SENSOR PRESS/TEMP DISCHARGE |
| 110082 | KIT - SERVICE SIDE COVER | VTT Rev: A | No Replacement | |
| 110084 | KIT - POWER COVER | VTT Rev: A | No Replacement | |
| 110091 | KIT - O-RING PORTS CONNECTIONS | VTT Rev: A, B, C | 110120 (VTT Rev A) 110076 (VTT Rev B & C) 112036 (VTX) | O-RING PORTS CONNECTIONS |
| 110094 | COMPLETE COMPRESSOR O-RING REPLACEMENT | VTT, All revisions | No direct replacement. Serviceable O-rings sold in separate kits. | |
| 110109 | KIT - SERVICE ELECTRONICS | VTT, All revisions | 110109-1 | SERVICE ELECTRONICS |
| 110110 | KIT- COMPRESSOR INTERFACE MODULE | VTT, All revisions | 110110-1 | COMP INTERFACE MODULE |
| 112037 | COMPLETE COMPRESSOR O-RING REPLACEMENT | VTX Rev: A & B | No direct replacement. Serviceable O-rings sold in separate kits. | |
| 112049 | KIT - MAINS INPUT BRACKET TWO HOLE | VTX Rev: A | 112059 | MAINS INPUT BRKT, 2 HOLE, METAL |



Boost your Turbocor® knowledge

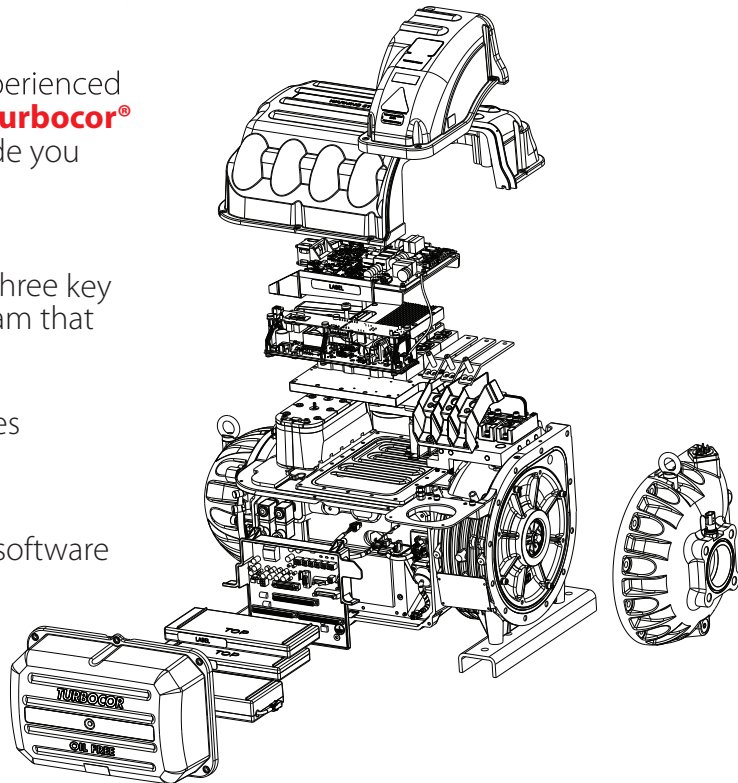
The Danfoss Turbocor® Training Program - Service, Maintenance, and Troubleshooting

- Online and face-to-face training modules
- Discover the advantages of oil-free technology
- Go hands-on with a Turbocor compressor
- Master the Turbocor monitoring software
- Interact directly with Danfoss experts

Highly qualified and field-experienced instructors of the **Danfoss Turbocor® Learning Center** will provide you with a high level of training.

Attendees will be trained in three key areas of the Turbocor® program that includes:

- Practical classroom courses
- Hands-on compressor demonstrations
- Service Monitoring Tools software applications



Join us for the next **Turbocor® Training** class. Scan the code to see our schedule and **register today!**

ENGINEERING TOMORROW



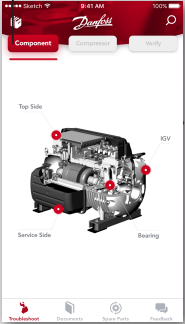
Quick access to Danfoss TurboCor® compressor troubleshooting.

The new version of the **Danfoss TurboTool® 2.0** app for all your full service Danfoss TurboCor® compressor needs.

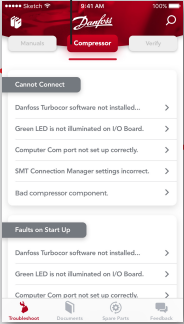
24/7
Access to Danfoss TurboCor® compressor troubleshooting on site

Troubleshoot

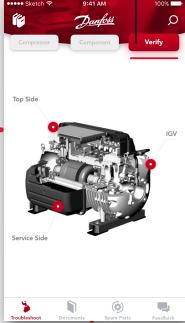
The TurboTool® app makes it easy for technicians to troubleshoot issues on Danfoss TurboCor® compressors.



The user can select from a list of symptoms in the app that match the problems exhibited by the compressor being serviced. The app will then list potential causes, solutions to the problem, and service literature for reference for further information.

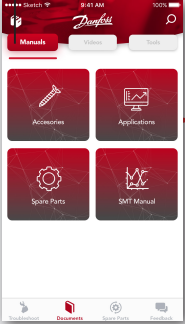


The app provides the correct operating parameters for key components; no need to keep reference documents on hand.

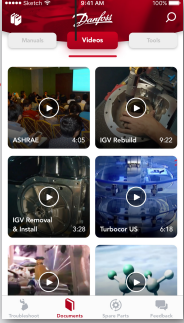


Documents & Video

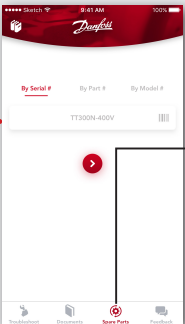
You no longer need to keep hundreds of pages of parts catalogs and training manuals. With the app, all of this information is at your fingertips on your smart device.



With the app, you can access videos made by Danfoss TurboCor® that demonstrate how to remove, install, and rebuild key components on Danfoss TurboCor® compressors.



Spare Parts



TurboTool® helps you to quickly identify the required spare parts. A quick scan of the compressor serial # using your smartphone camera or by entering the part # or model #, and the app will display potential spare parts kits.



Scan to download app



www.turboCor.danfoss.com |



Explore our solutions at danfoss.com.

Additional product literature is available at turbocoroem.com.

Danfoss Turbocor® Compressors
1769 E. Paul Dirac Drive Tallahassee, FL 32310
USA
+1 850 504-4800

Danfoss Turbocor® Compressors
22nd Floor, Block C,
900 Yi Shan Road, Shang Hai,
China Shanghai, China 200233
+86 (0) 21 6151-3000

Danfoss Turbocor® Compressors
Nordborgvej 81, DK-6430 Nordborg
+45 7488 2222

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 subsequent 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.
