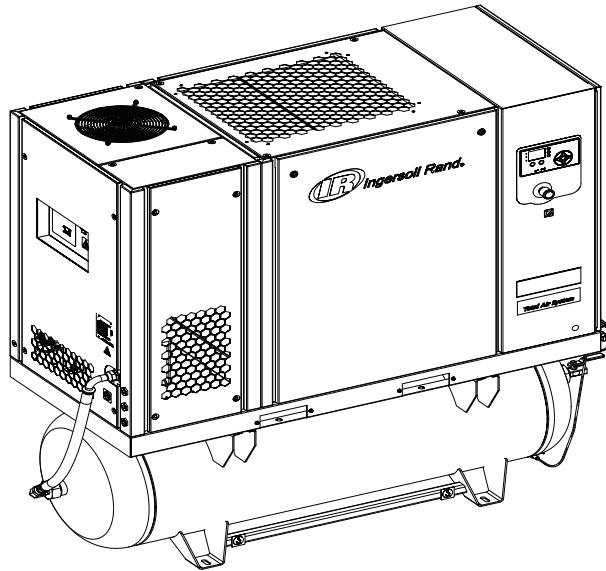


Contact-Cooled Rotary Screw Air Compressor

RS11-22i, RS15-22n



Product Parts Information



Save These Instructions



Edition F
August 2020
CCN 47636056

Only allow **Ingersoll Rand** trained Technicians to perform maintenance on this product. For additional information contact **Ingersoll Rand** factory or nearest Distributor.

The use of other than genuine **Ingersoll Rand** replacement parts may result in safety hazards, decreased performance and increased maintenance and may invalidate all warranties.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

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PARTS ORDERING INFORMATION

These products are designed and constructed to provide long, trouble-free service. In time it may be necessary to order and install new parts to replace those that have been subjected to wear.

For your convenience and future reference it is recommended that the following information be recorded.

Model Number _____

Serial Number _____

Date Purchased _____

When ordering replacement parts, please specify the following:

1. Complete model number and serial number as it appears on the data (name) plate.
2. Part number(s) and part description as shown in this manual.
3. Quantity required.

NOTICE

General Information!

- **Continuing improvement and advancement of design may cause changes to this equipment which are not included in this manual. Manuals are periodically revised to incorporate changes. Always check the manual edition number on the front cover for the latest issue.**
- **Sections of this manual may not apply to your product.**
- **Using other than genuine Ingersoll Rand replacement parts may invalidate the warranty.**

RETURN GOODS POLICY

Ingersoll Rand will not accept any returned goods for warranty or service work unless prior arrangements have been made and written authorization has been provided from the location where the goods were purchased.

Products which have been modified without **Ingersoll Rand** approval, mishandled or misused will not be repaired or replaced under warranty.

DISPOSAL



When the life of the product has expired, it is recommended that it be disassembled, degreased and parts separated as to materials so that they may be recycled.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

ABOUT THIS MANUAL

The purpose of this manual is to provide site planning, installation and operation guidelines for the compressor
For supporting documentation refer to [Table 1, p. 6](#).

Table 1. Product Manuals

Publication	Product	Part/Document Number by Region		
		Americas	EMEIA *	Asia Pacific
Product Safety Information Manual	All	80446313	80446156	80446321
Product Information Manual - FS	RS15-22ie, RS11-22i	47629513	47629512	47629514
Product Information Manual - VSD	RS15-22ne, RS15-22n**	47629516	47629515	47629517
Product Maintenance Manual	RS15-22ie, ne RS11-22i, RS15-22n	47629519	47629518	47629520
Product Parts Information Manual	RS11-22i, RS15-22ie, ne	47636056		

* Europe, Middle East, India and Africa

** Europe and Asia Pacific Region Only

Product specification sheets and reference drawings are also available.

ABBREVIATION

The following are the abbreviations appear in Parts Manual.

STD	Standard machine configuration
FS	Fixed Speed machine configuration
VSD	Variable Speed Drive machine configuration
AC or A/C	Air-Cooled machine configuration
WC or W/C	Water-Cooled machine configuration
ERS	Energy Recovery System machine option
ODM	Outdoor Modification machine option
EMEA	Europe, Middle East, Africa region
AP	Asia Pacific region
PED	Pressure Equipment Directive (European Union)
CRN	Canadian Registration Number (pressure vessels, piping systems)
MPCV	Minimum Pressure Check Valve
ENLD	Electronic No-Loss Drain valve
CDE	Condensate Drain Error
CDV	Condensate Drain Voltage
ASME	ASME VIII Division 1 Pressure Vessel Standard
AS	Australian National Standards
NR	Brazilian National Standards
IS	Indian National Standards
GB	Chinese National Standards
CE	Certification mark for conformity with safety requirements for products sold into the European Economic Area (EEA)
TUV	Certified by TUV (Technischer Überwachungsverein)

RECOMMENDED PARTS

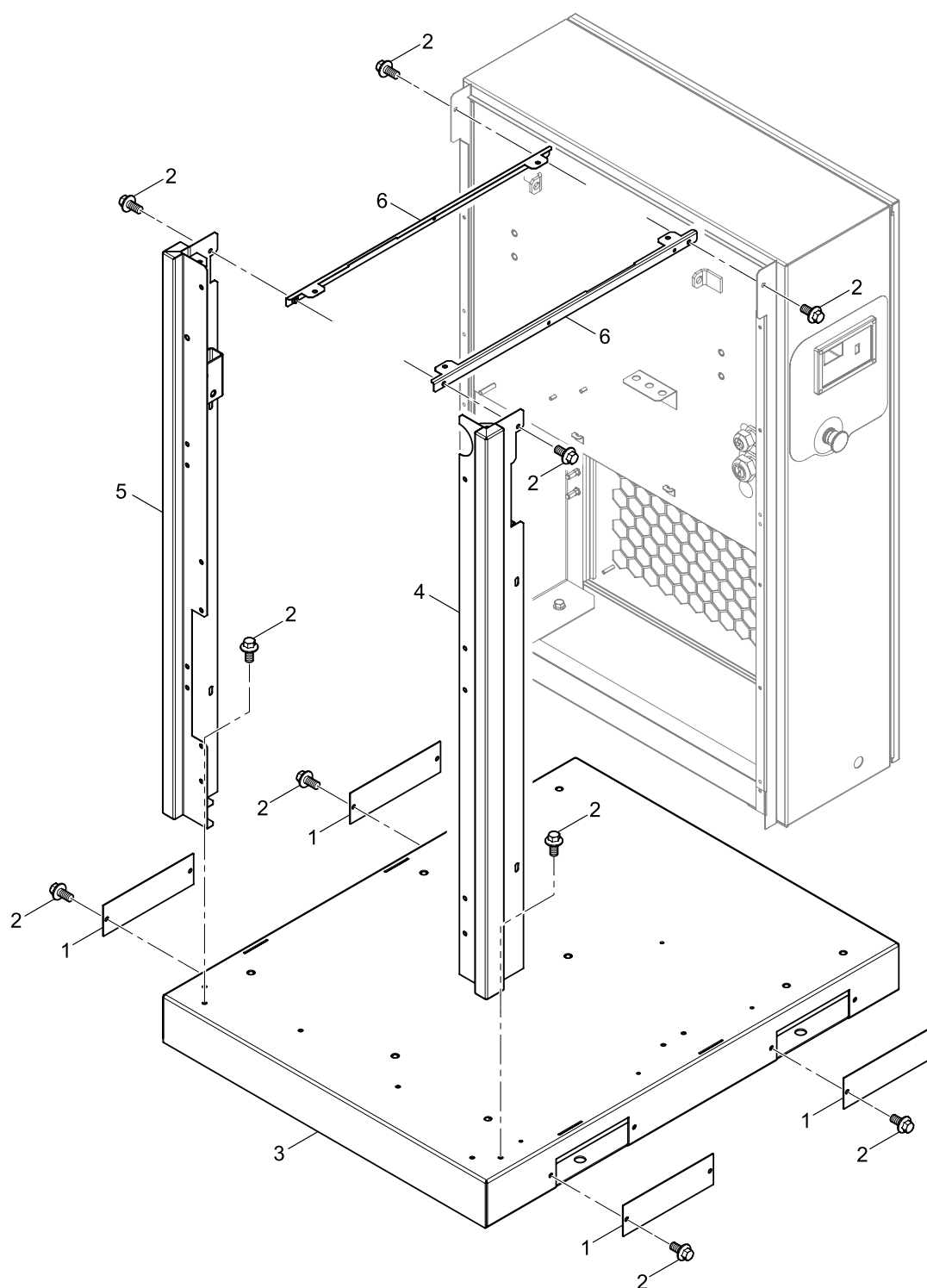
CONSUMABLES	
CCN	DESCRIPTION
47593353001	ELEMENT, AIR FILTER
24900342	ELEMENT, AIR OIL SEPARATOR
24900433	OIL FILTER, ELEMENT
47581604001	PAD, PRE-FILTER
24242141	ELEMENT, FC230IG KIT (DRYER)
47512548001	ELEMENT, FILTER GRILL (STARTERBOX)

MAINTENANCE KITS	
CCN	DESCRIPTION
47649197001	KIT, MAINTENANCE FILTERS, RS11-22, FS NON TAS - 4K HR
47649198001	KIT, MAINTENANCE FILTERS, RS11-12, FS TAS - 4K HR
47649199001	KIT, MAINTENANCE FILTER, RS15-22, VS NON TAS - 4K HR
47649200001	KIT, MAINTENANCE FILTERS, RS15-22, VS TAS - 4K HR

SERVICE KITS	
CCN	DESCRIPTION
47588101001	KIT, SERVICE INLET VALVE FLAPPER REPAIR
47588100001	KIT, SERVICE INLET VALVE REPAIR
22861116	KIT, SHAFT SEAL CF75D6/CF75D8
47637061001	KIT, SERVICE THERMAL VALVE FS (ON-OFF) : 7.5 & 8.5 BARG, 110 & 125 PSIG FS (MODULATION) : 7.5 & 8.5 BARG, 110 & 125 PSIG
47637062001	KIT, SERVICE THERMAL VALVE FS (ON-OFF) : 10 & 14 BARG, 145 & 200 PSIG FS (MODULATION) : 10BARG, 145PSIG ALL VSD CONFIGURATION
47649195001	KIT, SERVICE HOSES PTFE/SS
47649196001	KIT, SERVICE HOSES RUBBER
47637065001	KIT, SERVICE MPCV

FIELD KITS	
CCN	DESCRIPTION
47649327001	KIT, ELECTRICAL CONVERT 230V TO 460V, 30 HP, FS-SD, XE-50, NA
47649328001	KIT, ELECTRICAL CONVERT 230V TO 460V, 20/25 HP, FS-SD, XE-50, NA
47649329001	KIT, ELECTRICAL CONVERT 230V TO 460V, 15 HP, FS-SD, XE-50, NA
47649330001	KIT, ELECTRICAL CONVERT 460V TO 230V, 30 HP, FS-SD, XE-50, NA
47649331001	KIT, ELECTRICAL CONVERT 460V TO 230V, 20/25 HP, FS-SD, XE-50, NA
47649332001	KIT, ELECTRICAL CONVERT 460V TO 230V, 15 HP, FS-SD, XE-50, NA
47655776001	KIT, ELECTRICAL CONVERT 230V TO 460V, 30 HP, FS-SD, XE-70, NA
47655777001	KIT, ELECTRICAL CONVERT 230V TO 460V, 20/25 HP, FS-SD, XE-70, NA
47655778001	KIT, ELECTRICAL CONVERT 230V TO 460V, 15 HP, FS-SD, XE-70, NA
47655779001	KIT, ELECTRICAL CONVERT 460V TO 230V, 30 HP, FS-SD, XE-70, NA
47655780001	KIT, ELECTRICAL CONVERT 460V TO 230V, 20/25 HP, FS-SD, XE-70, NA
47655781001	KIT, ELECTRICAL CONVERT 460V TO 230V, 15 HP, FS-SD, XE-70, NA

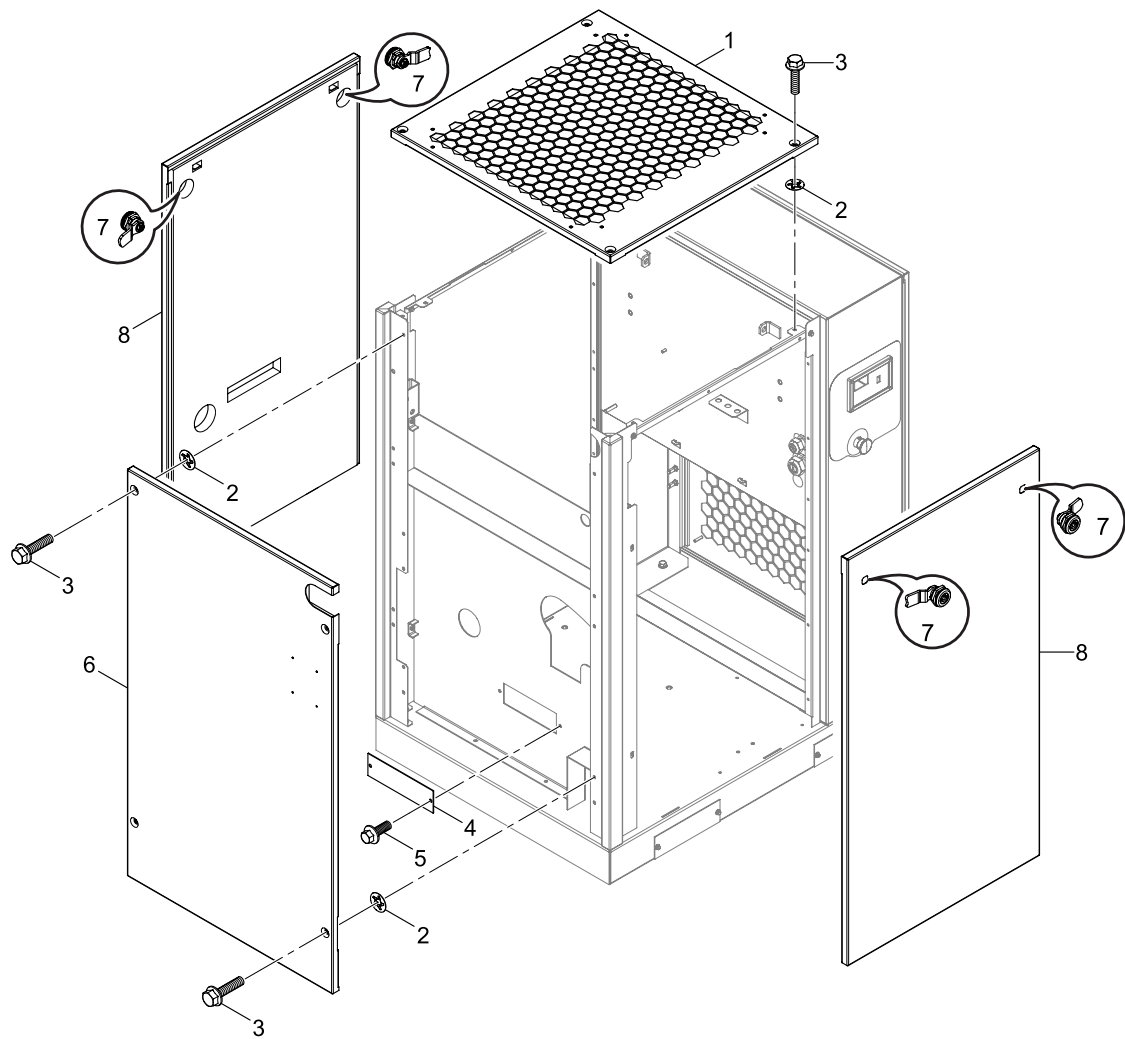
ENCLOSURE - FS



Item	Part No.	Description	Qty.
1	22058580	COVER, FORKLIFT	4
2	96705058	SCREW	16
3	47517695001	BASE ASSEMBLY	1
4	47571292001	ASSEMBLY, CORNER LEFT (WITH FOAM)	1
5	47571294001	ASSEMBLY, REAR LEFT CORNER (WITH FOAM)	1
6	47571976001	STOP, FRONT AND REAR TOP	2

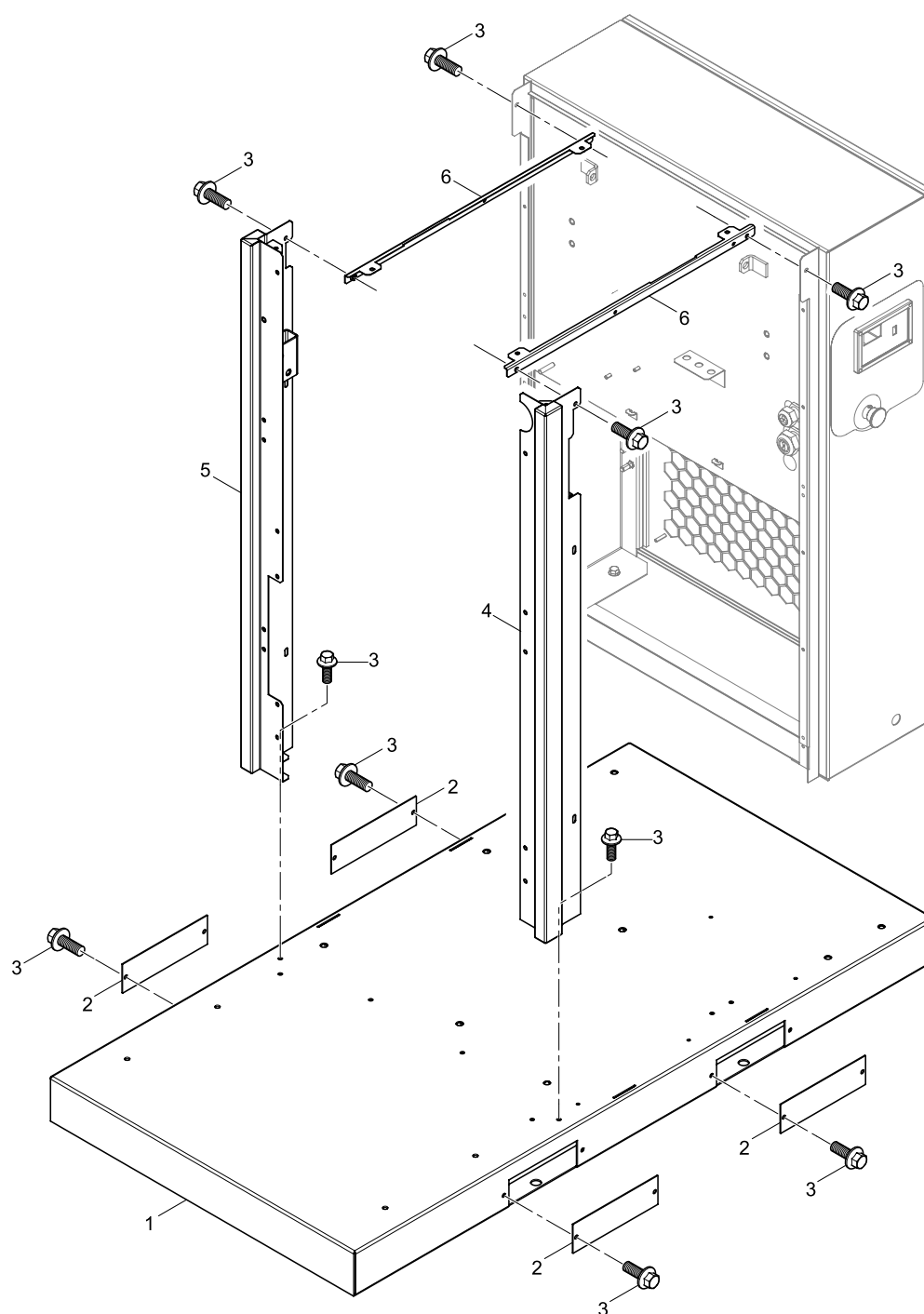
Note: Items 1 & 2 are not applicable, For Receiver Mounted Packages.

ENCLOSURE - FS



Item	Part No.	Description	Qty.
1	47569501001	ASSEMBLY, TOP PANEL (WITH FOAM)	1
	47633794001	ASSEMBLY, TOP PANEL WITH FOAM (CRN)	1
2	23523491	RETAINER	8
3	96728571	BOLT	8
4	22058580	COVER, FORKLIFT	1
5	96705058	SCREW	2
6	47581211001	ASSEMBLY, LEFT PANEL (WITH FOAM)	1
7	23180565	LATCH, DOOR	4
8	47571977001	ASSEMBLY, FRONT AND REAR DOOR (WITH FOAM)	2

ENCLOSURE (TAS) - FS

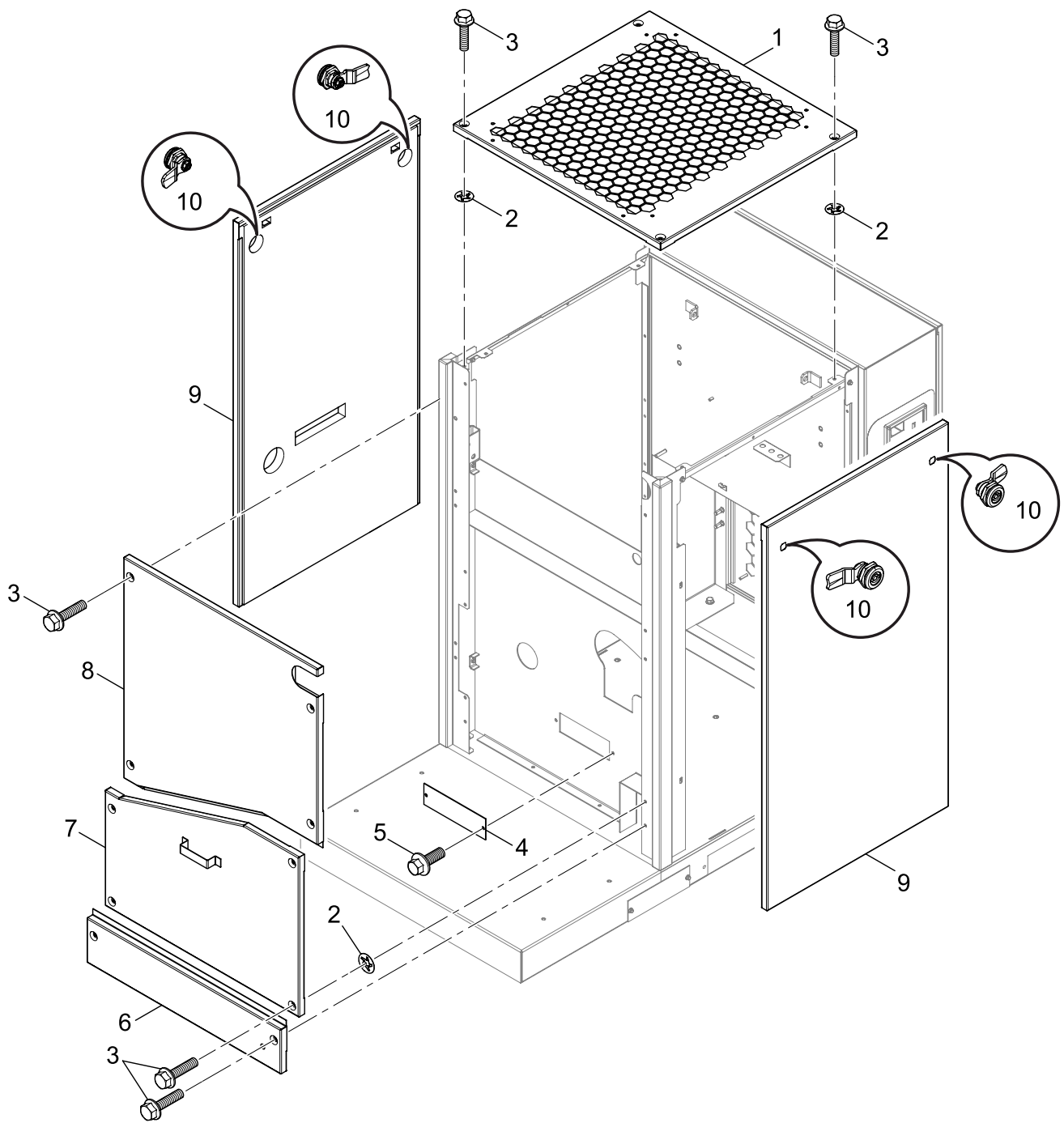


ENCLOSURE (TAS) - FS

Item	Part No.	Description	Qty.
1	47606772001	BASE, FS (TAS)	1
2	22058580	COVER, FORKLIFT	4
3	96705058	SCREW	16
4	47571292001	ASSEMBLY, FRONT LEFT CORNER (WITH FOAM)	1
5	47571294001	ASSEMBLY, REAR LEFT CORNER (WITH FOAM)	1
6	47571976001	STOP, FRONT AND REAR - TOP	2

Note: Items 2 & 3 are not applicable, For Receiver Mounted Packages.

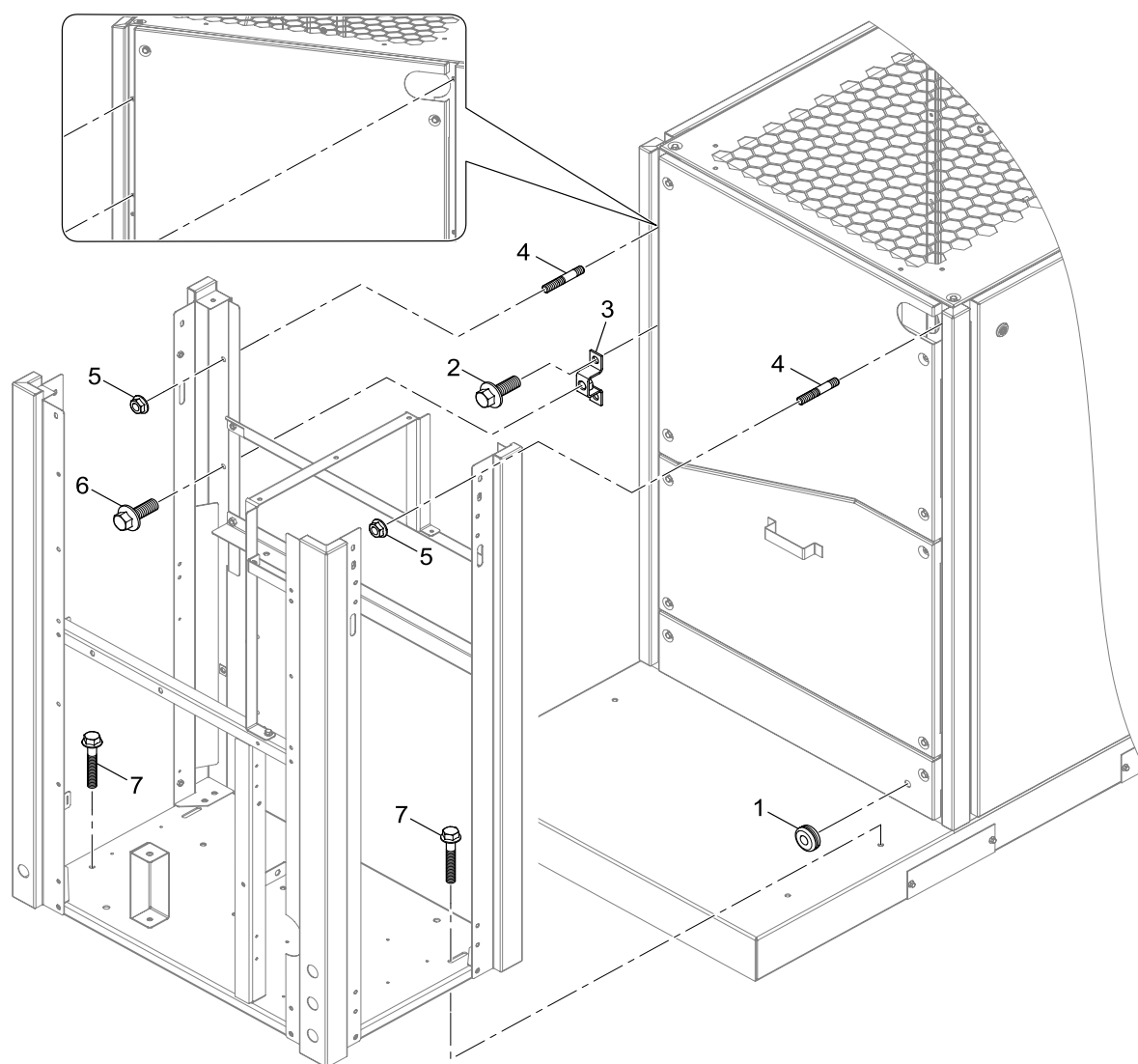
ENCLOSURE (TAS) - FS



ENCLOSURE (TAS) - FS

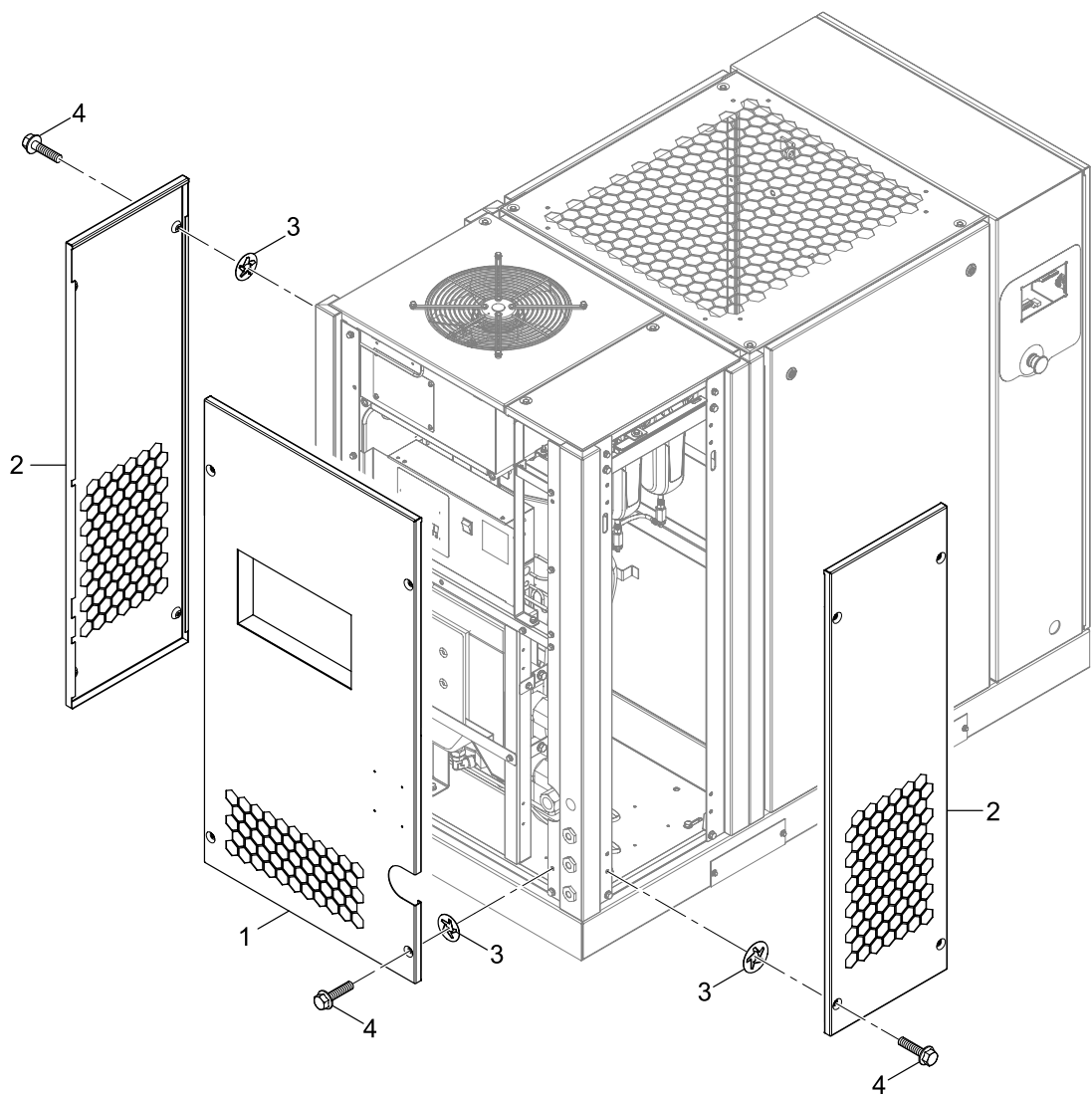
Item	Part No.	Description	Qty.
1	47569501001	ASSEMBLY, TOP PANEL (WITH FOAM)	1
	47633794001	ASSEMBLY, TOP PANEL WITH FOAM (CRN)	1
2	23523491	RETAINER	8
3	96728571	BOLT	14
4	22058580	COVER, FORKLIFT	1
5	96705058	SCREW	2
6	47581588001	ASSEMBLY, LEFT BOTTOM WITH FOAM (TAS)	1
7	47581227001	LEFT MIDDLE PANEL	1
8	47581224001	ASSEMBLY, LEFT TOP PANEL (WITH FOAM)	1
9	47571977001	ASSEMBLY, FRONT AND REAR DOOR (WITH FOAM)	2
10	23180565	LATCH, DOOR	4

ENCLOSURE (TAS) - FS



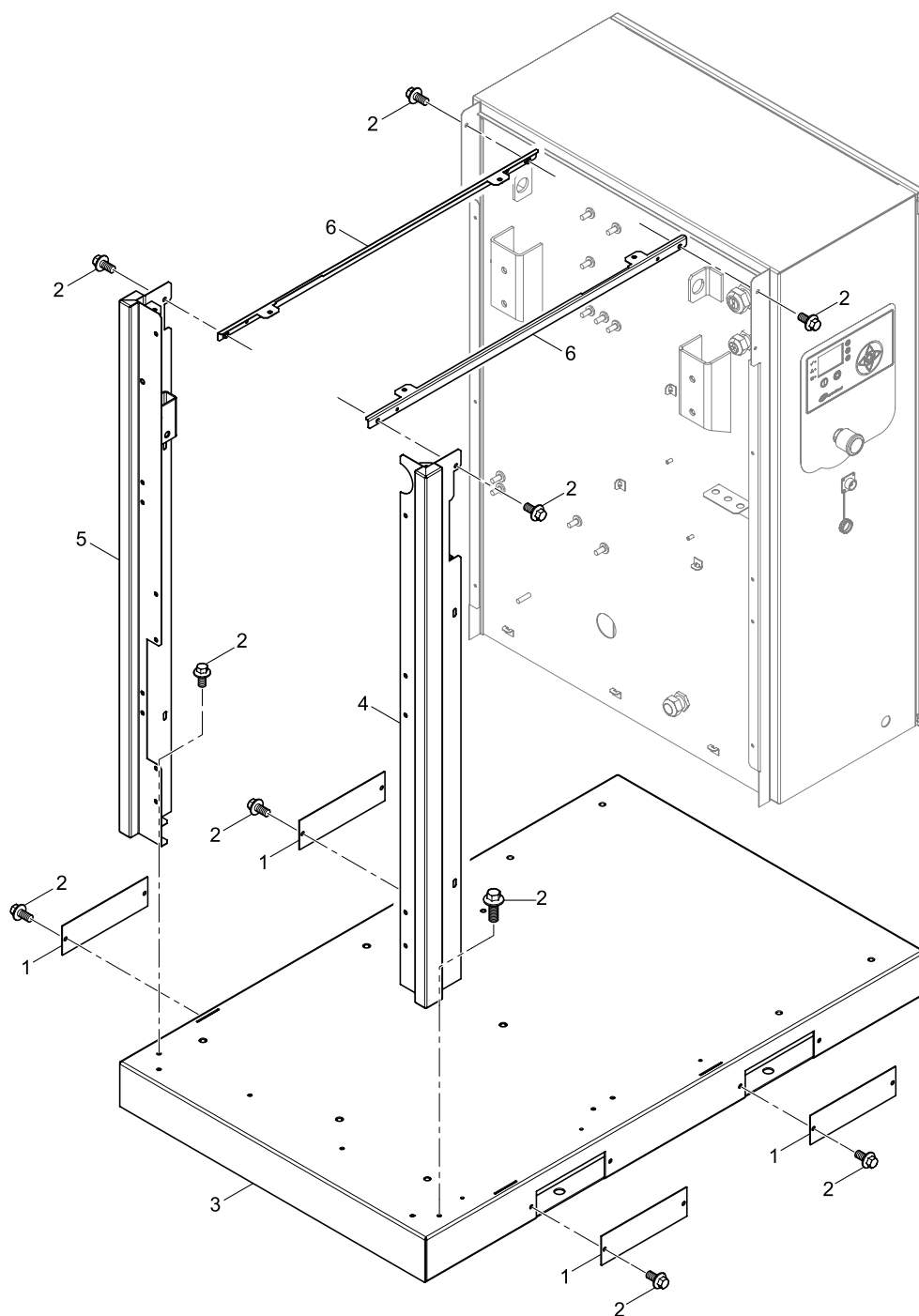
Item	Part No.	Description	Qty.
1	85583367	GROMMET, INSULATION	1
2	96705058	SCREW	8
3	47598038001	SPACER	4
4	96739750	STUD	2
5	96704416	NUT	2
6	96704218	SCREW	4
7	96753058	BOLT	4

ENCLOSURE (TAS) - FS



Item	Part No.	Description	Qty.
1	47623401001	SIDE PANEL- RIGHT	1
2	47555470001	PANEL FRONT- BACK	2
3	23523491	RETAINER	12
4	96728571	BOLT	12

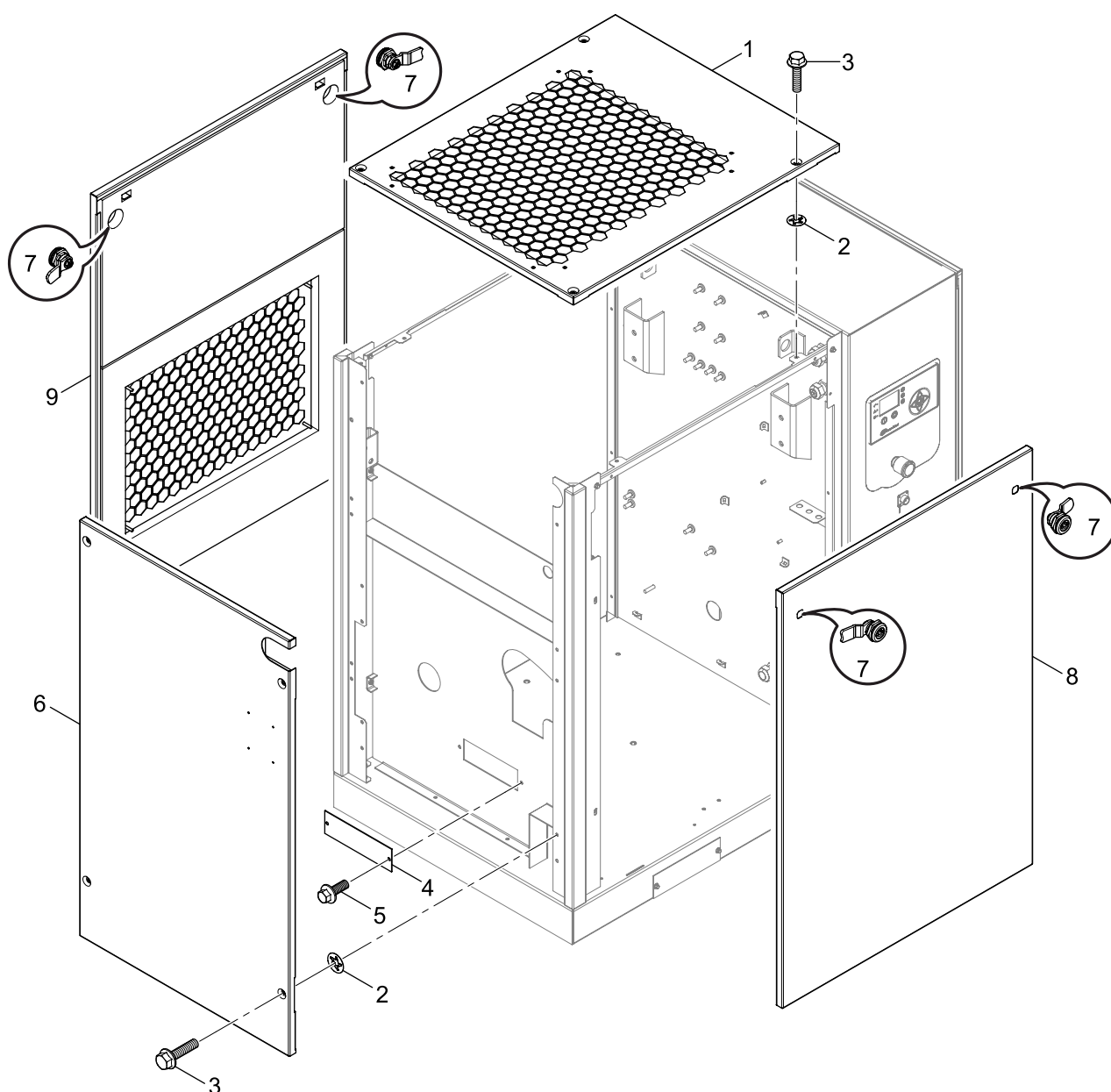
ENCLOSURE - VSD



Item	Part No.	Description	Qty.
1	22058580	COVER, FORKLIFT	4
2	96705058	SCREW	16
3	47560081001	BASE, STANDARD	1
4	47571292001	ASSEMBLY, FRONT LEFT CORNER (WITH FOAM)	1
5	47571294001	ASSEMBLY, REAR LEFT CORNER (WITH FOAM)	1
6	47560101001	STOP, FRONT AND REAR TOP	2

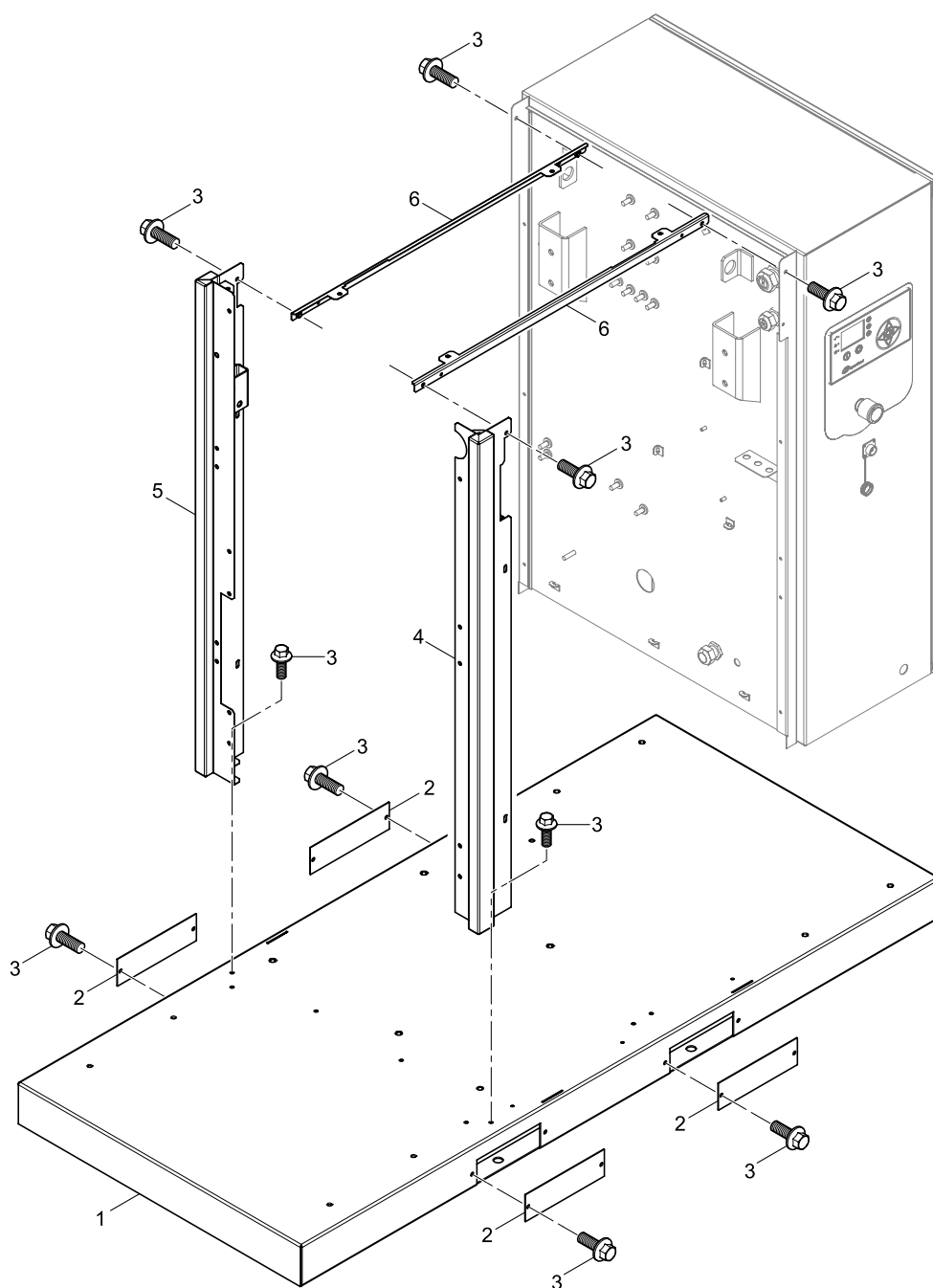
Note: Items 1 & 2 are not applicable, For Receiver Mounted Packages.

ENCLOSURE - VSD



Item	Part No.	Description	Qty.
1	47560094001	ASSEMBLY, TOP PANEL (WITH FOAM)	1
	47661976001	ASSEMBLY, TOP PANEL (WITH FOAM) CRN	1
2	23523491	RETAINER	8
3	96728571	BOLT	8
4	22058580	COVER, FORKLIFT	1
5	96705058	SCREW	2
6	47581211001	ASSEMBLY, LEFT PANEL (WITH FOAM)	1
7	23180565	LATCH, DOOR	4
8	47560087001	ASSEMBLY, FRONT DOOR (WITH FOAM)	1
9	47591096001	ASSEMBLY, REAR DOOR (WITH FOAM)	1

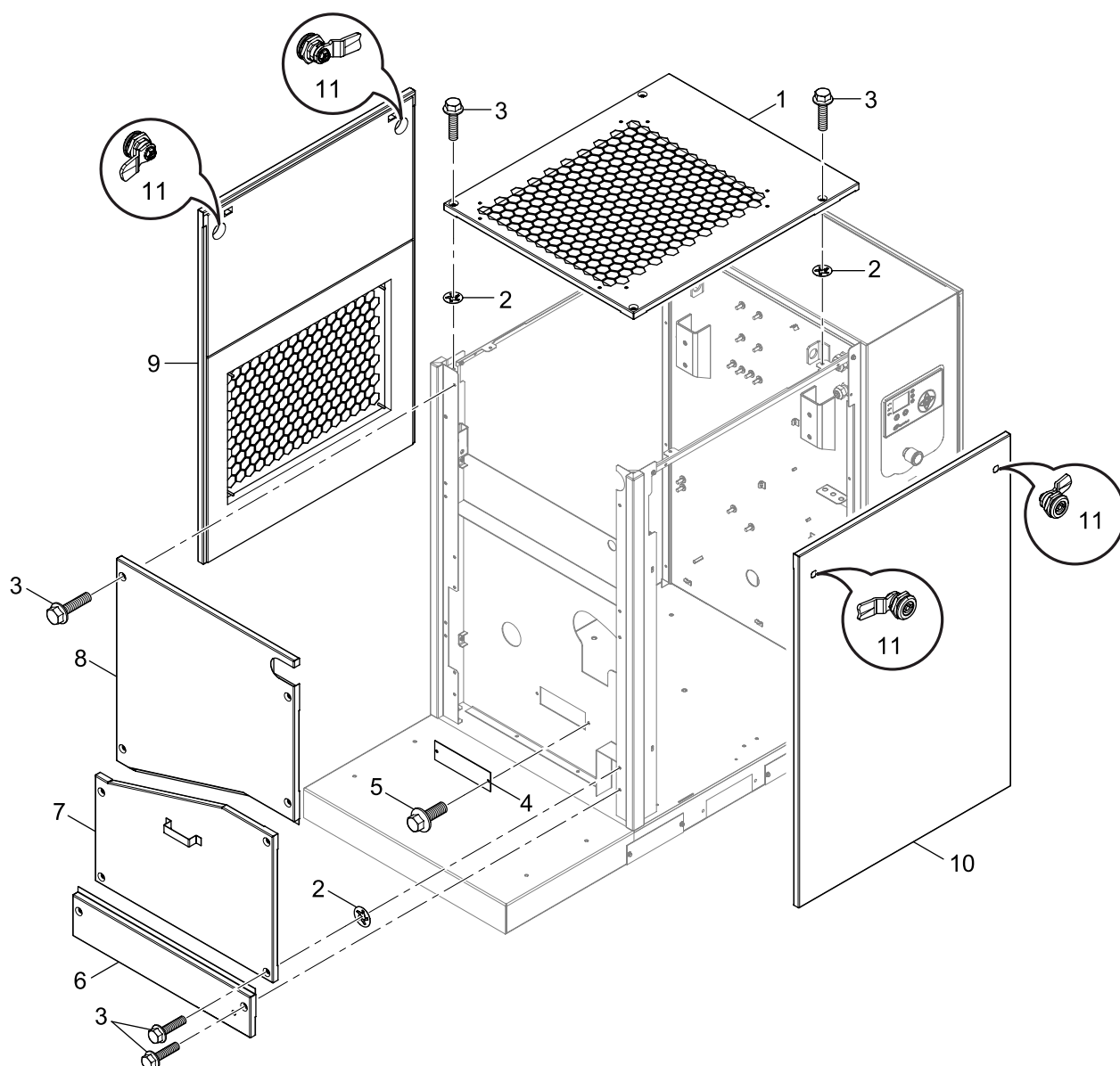
ENCLOSURE (TAS) - VSD



Item	Part No.	Description	Qty.
1	47581611001	BASE, STANDARD VSD TAS	1
2	22058580	COVER, FORKLIFT	4
3	96705058	SCREW	16
4	47571292001	ASSEMBLY, FRONT LEFT CORNER (WITH FOAM)	1
5	47571294001	ASSEMBLY, REAR LEFT CORNER (WITH FOAM)	1
6	47560101001	STOP, FRONT AND REAR - TOP	2

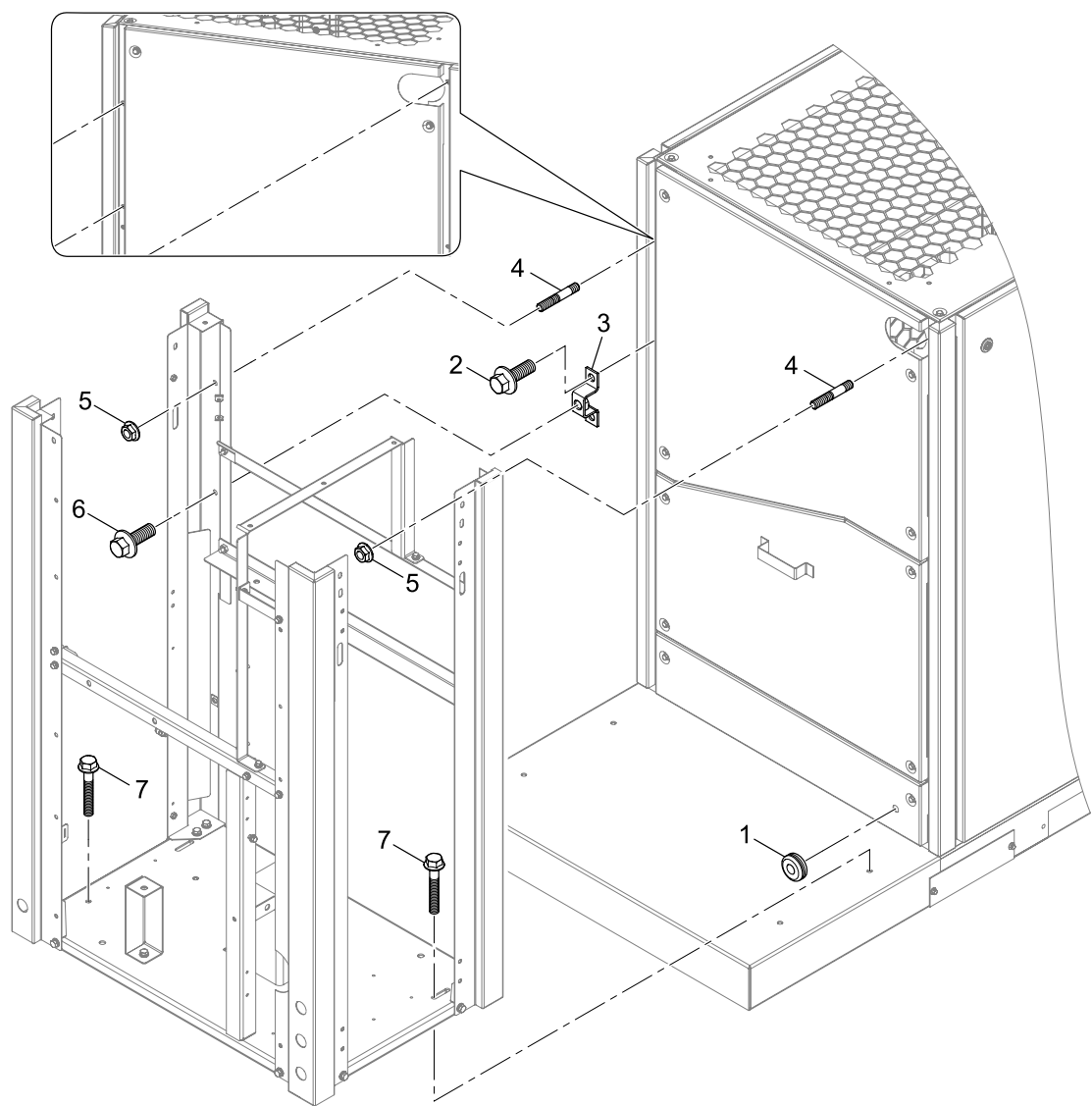
Note: Items 2 & 3 are not applicable, For Receiver Mounted Packages.

ENCLOSURE (TAS) - VSD



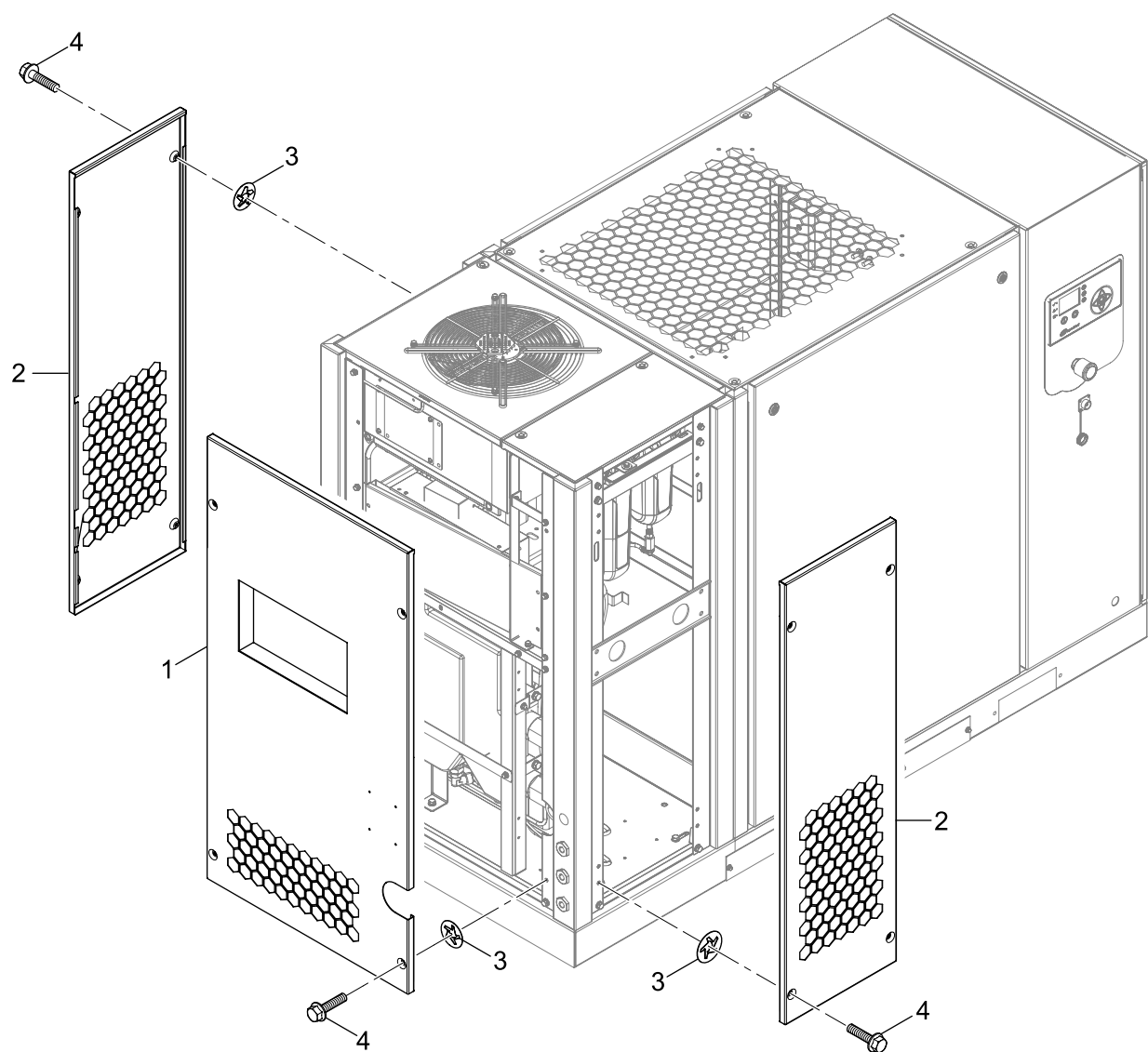
Item	Part No.	Description	Qty.
1	47560094001	ASSEMBLY, TOP PANEL (WITH FOAM)	1
2	23523491	RETAINER	8
3	96728571	BOLT	14
4	22058580	COVER, FORKLIFT	1
5	96705058	SCREW	2
6	47581588001	ASSEMBLY, BOTTOM LEFT WITH FOAM (TAS)	1
7	47581227001	LEFT MIDDLE PANEL	1
8	47581224001	ASSEMBLY, LEFT TOP PANEL (WITH FOAM)	1
9	47591096001	ASSEMBLY, REAR DOOR (WITH FOAM)	1
10	47560087001	ASSEMBLY, FRONT DOOR (WITH FOAM)	1
11	23180565	LATCH, DOOR	4

ENCLOSURE (TAS) - VSD



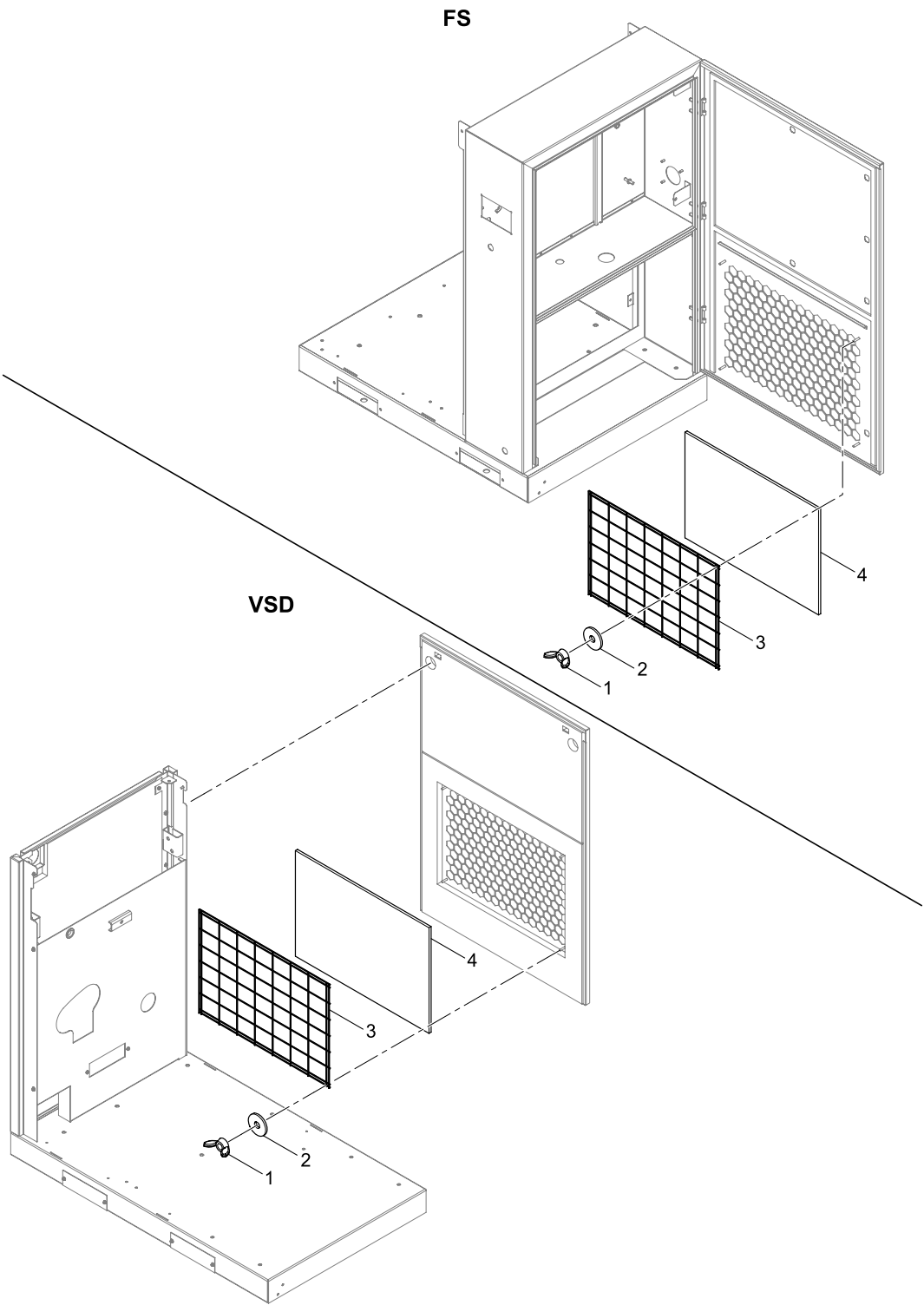
Item	Part No.	Description	Qty.
1	85583367	GROMMET, INSULATION	1
2	96705058	SCREW	8
3	47598038001	SPACER	4
4	96739750	STUD	2
5	96704416	NUT	2
6	96704218	SCREW	4
7	96753058	BOLT	4

ENCLOSURE (TAS) - VSD



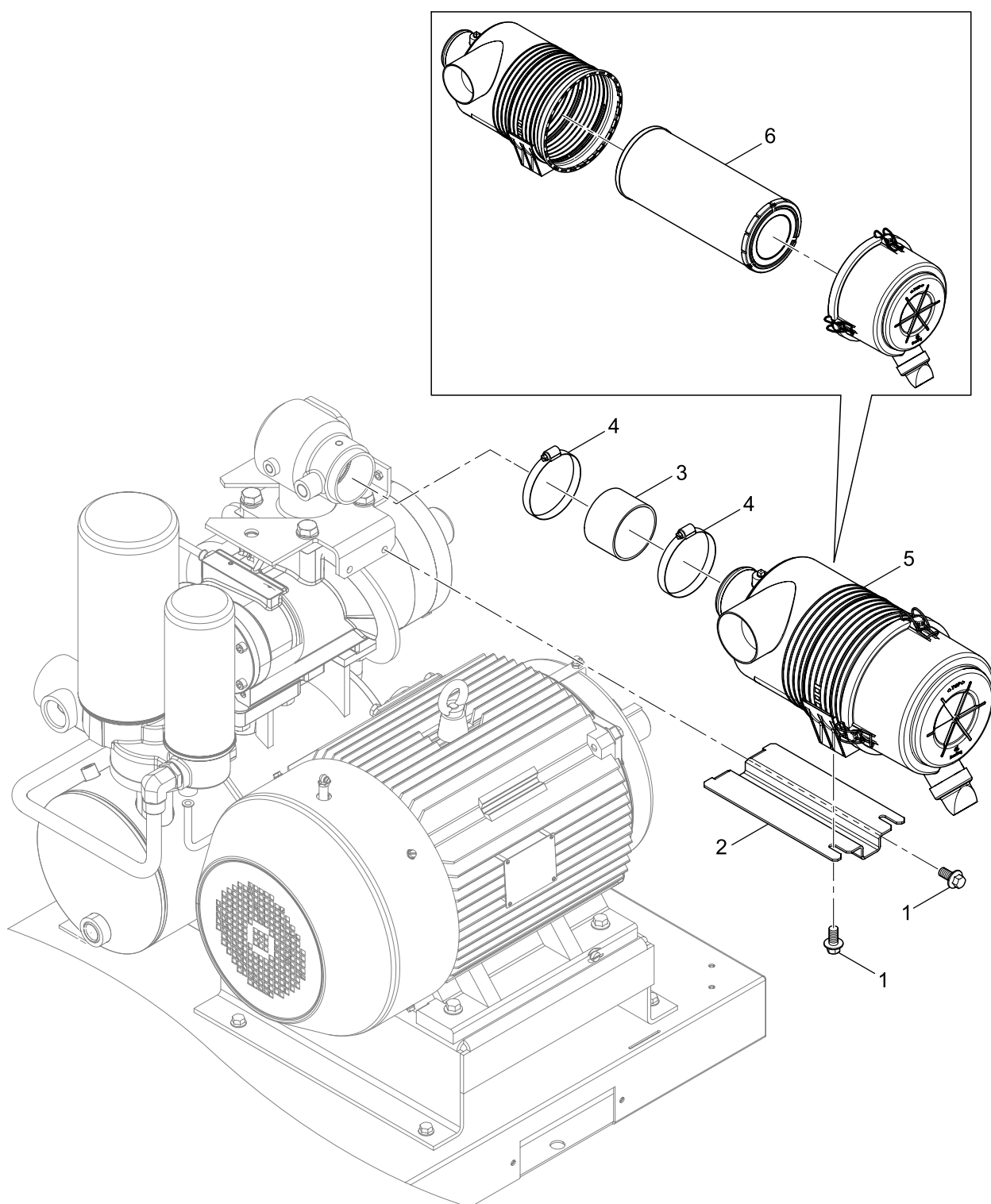
Item	Part No.	Description	Qty.
1	47623401001	SIDE PANEL- RIGHT	1
2	47555470001	PANEL FRONT- BACK	2
3	23523491	RETAINER	12
4	96728571	BOLT	12

AIR INTAKE (FS AND VSD)



Item	Part No.	Description	Qty.
1	39232889	NUT, WING	4
2	96745559	WASHER	4
3	47581605001	GRILL	1
4	47581604001	PAD, PRE-FILTER	1

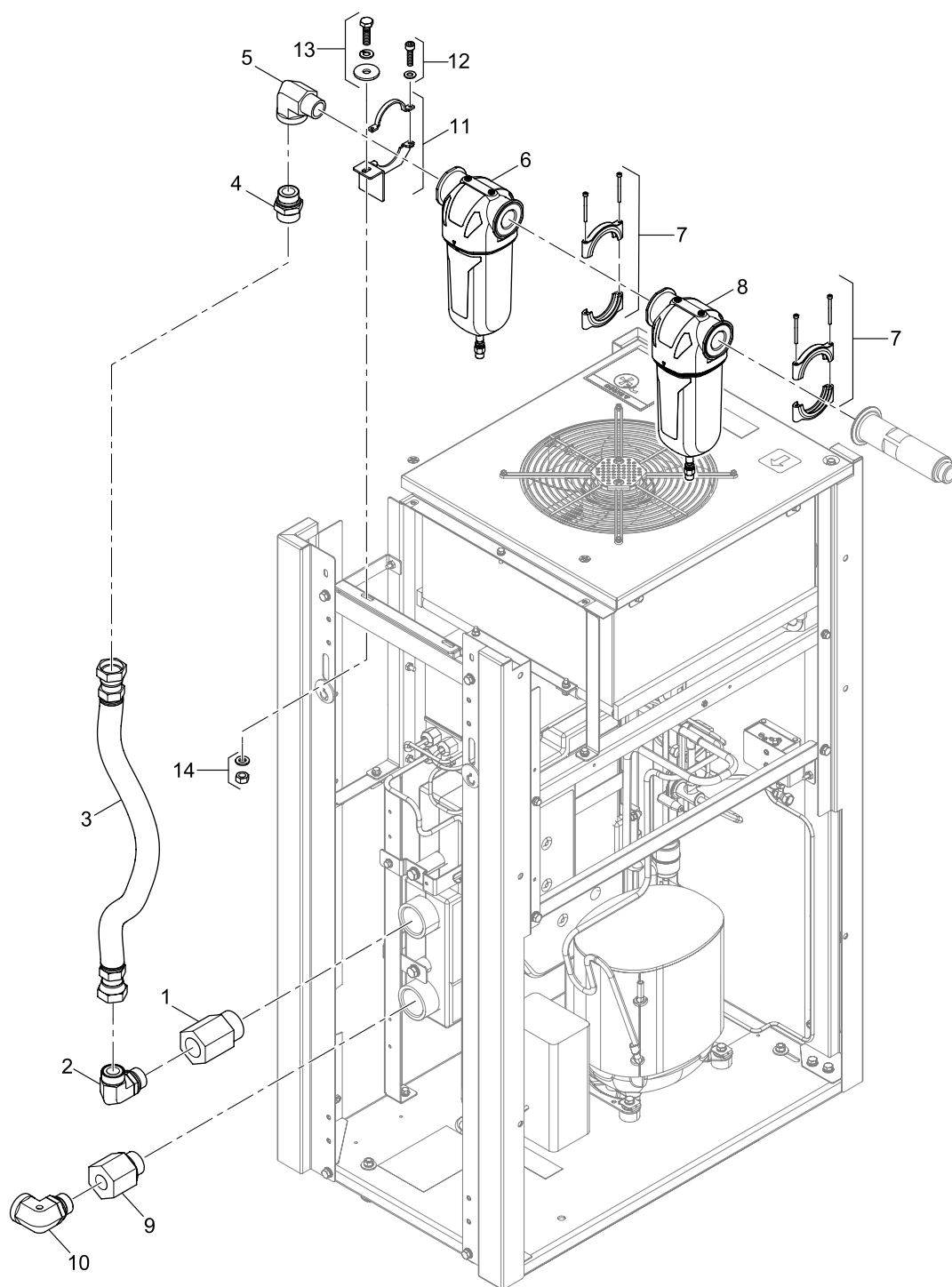
AIR FILTER



AIR FILTER

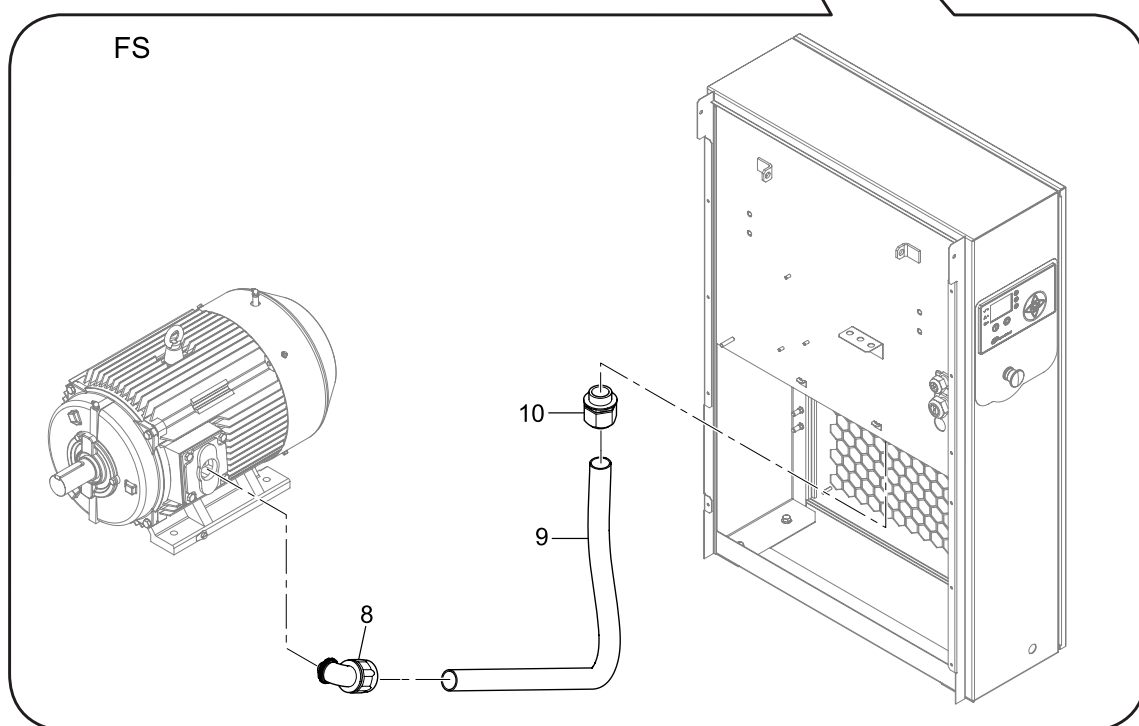
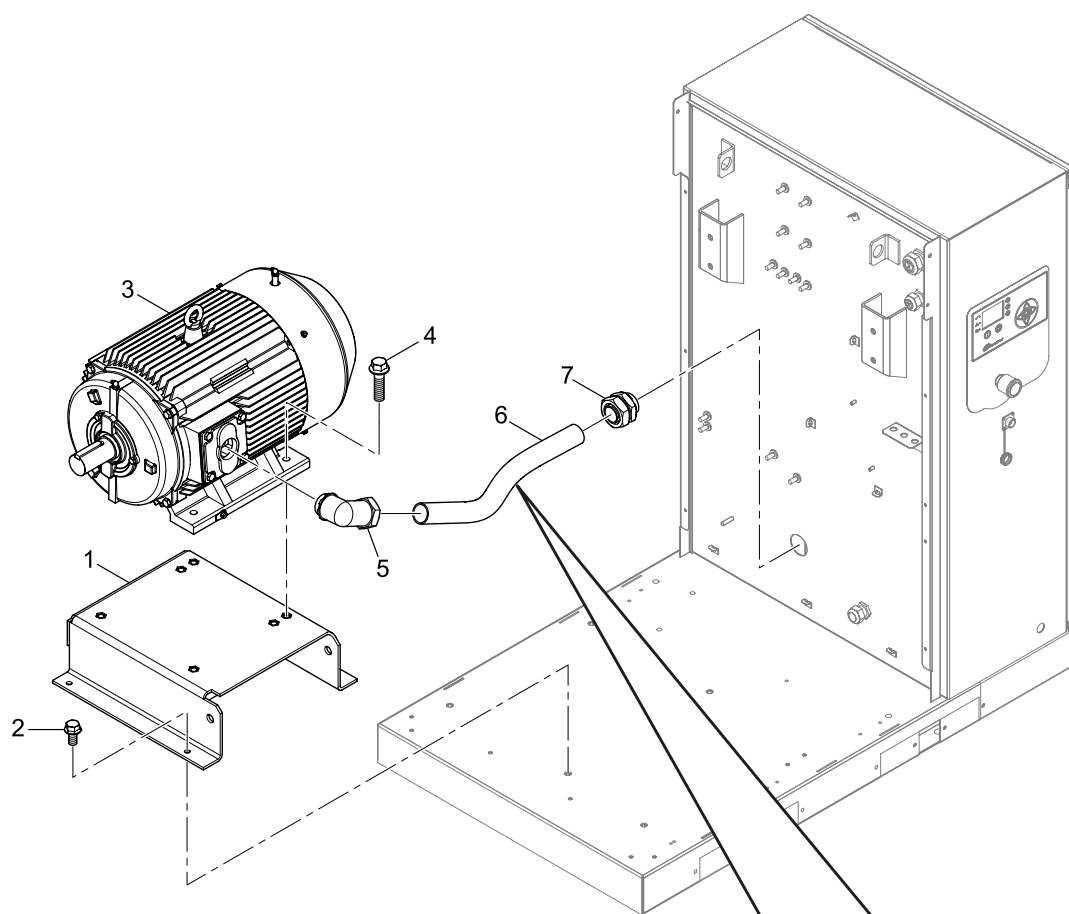
Item	Part No.	Description	Qty.
1	96704218	SCREW	4
2	47581608001	BRACKET, AIR FILTER	1
3	47554343001	HOSE	1
4	95340683	CLAMP, HOSE WORM DRIVE	2
5	47593354001	FILTER, AIR	1
6	47593353001	ELEMENT, FILTER	1

AIR FILTER - TAS

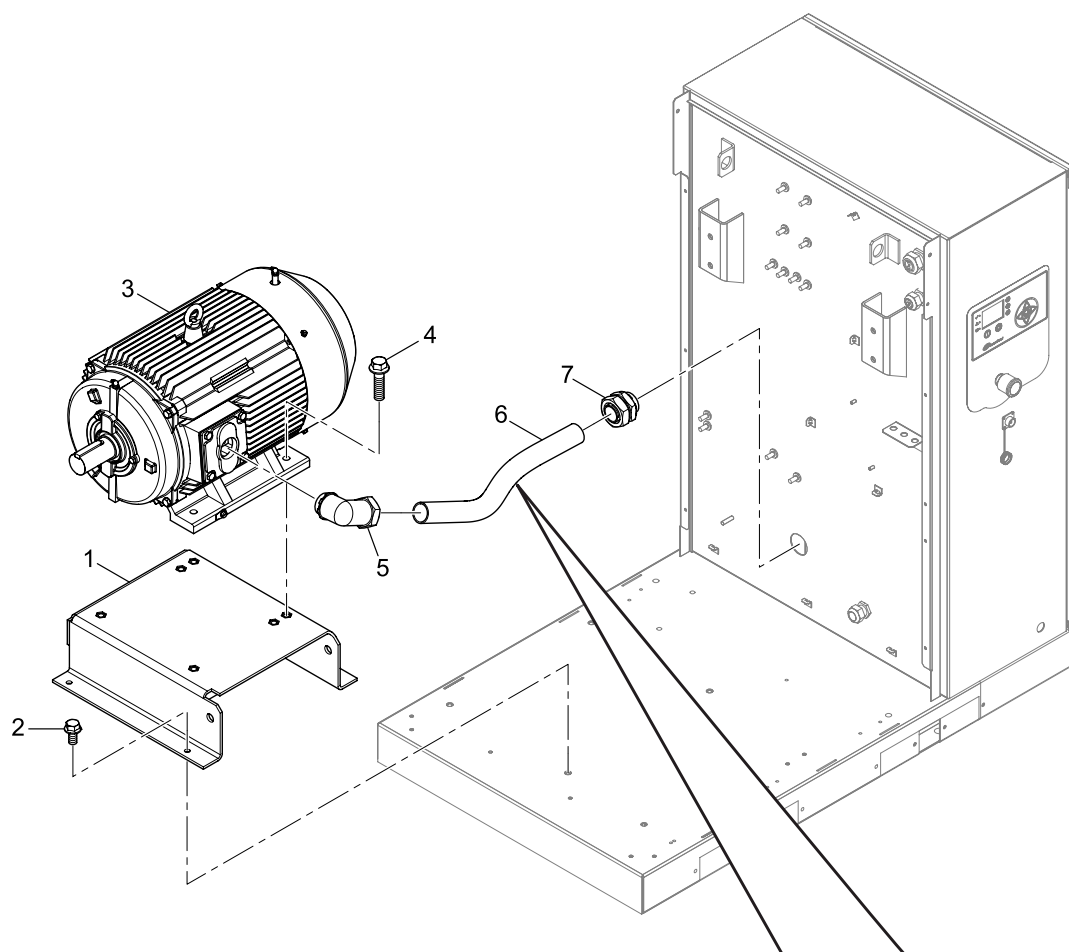


Item	Part No.	Description	Qty.
1	47582570001	REDUCER, CONNECTOR	1
2	96760780	ELBOW	1
3	85575124	HOSE	1
4	96761549	CONNECTOR	1
5	47582573001	ELBOW	1
6	24592677	FILTER	1
7	24361933	CLAMP, KIT	2
8	49181720	SEPARATOR, MOISTURE	1
9	47599775001	REDUCER CONNECTOR	1
10	47582571001	ELBOW	1
11	47566264001	FILTER CLAMP	1
12	96714464	WASHER	2
	96716394	SCREW	2
13	96705785	SCREW	1
	96727573	WASHER, SPRING LOCK	1
	96745559	WASHER	1
14	96703806	NUT	1
	96727581	WASHER	1

DRIVE TRAIN



Item	Part No.	Description	Qty.
1	54727888	SUPPORT, MOTOR(180 Frame)(FS - 18.5 kW, 22 kW & 30 hp)	1
		SUPPORT, MOTOR(180 Frame)(VSD - 18.5kW & 22 kW)	
	54727870	SUPPORT, MOTOR(160 Frame)(FS - 11 kW, 15 kW & 15 hp, 20 hp, 25 hp)	
		SUPPORT, MOTOR(160 Frame)(VSD - 15 kW)	
2	96737549	SCREW	4
3	Table 2, p. 35	MOTOR	1
4	96745310	SCREW	4
5	95333373	ELBOW (VSD)	1
6	47606478001	CONDUIT (VSD)	27 In
7	95333266	CONNECTOR (VSD)	1
8	54624598	ELBOW, 50 Hz (FS)	1
	47596981001	ELBOW, 60 Hz (FS)	1
9	39147186	CONDUIT (FS)	34 In
10	22122949	CONNECTOR (FS)	1



FS

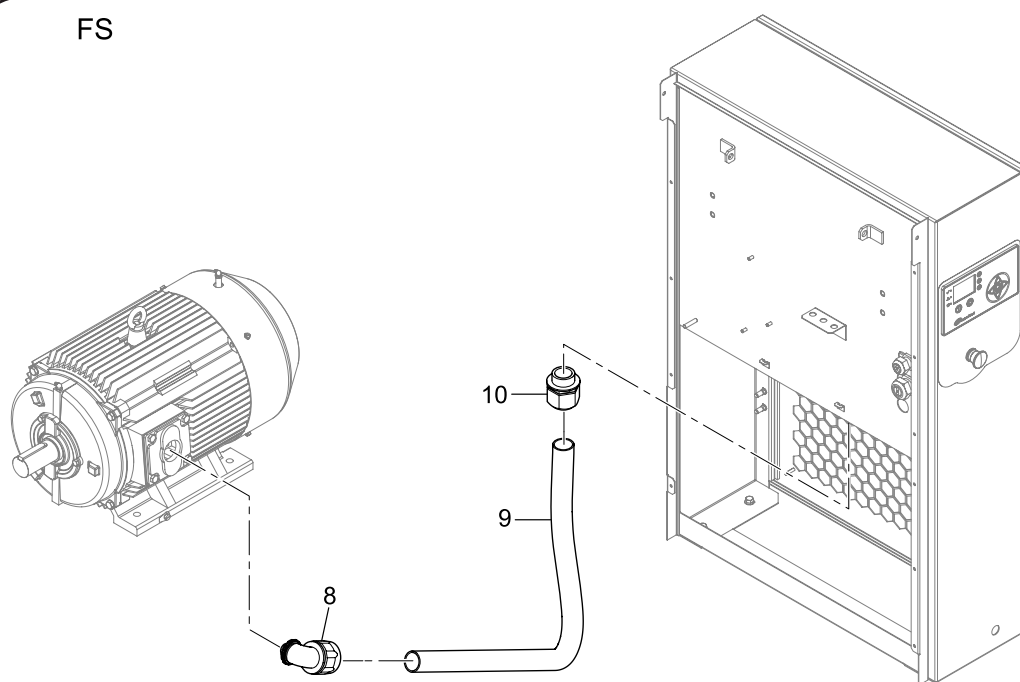
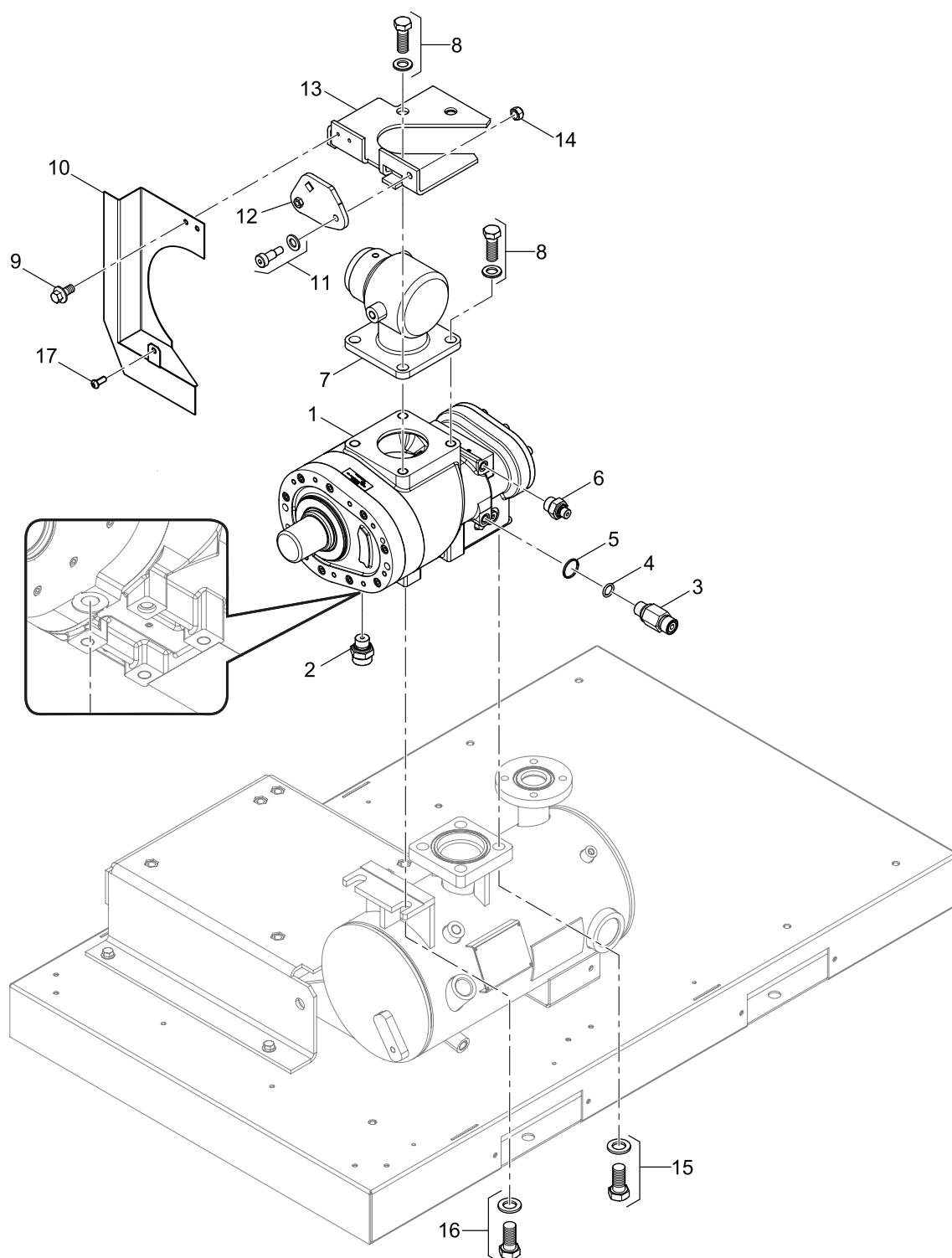


Table 2. Alternate Part Numbers

ALTERNATE PARTS FOR MOTORS - RS11-22I (FIX SPEED)	
Main Motor (#3)	Application
49210842001	22 kW, 230V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49086234001	22 kW, 400V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210834001	18.5 kW, 230V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210792001	18.5 kW, 400V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210826001	15 kW, 230V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210784001	15 kW, 400V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210818001	11 kW, 230V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210776001	11 kW, 400V, 3-PH, 50 Hz, IP55, 4P, IE3, FS
49210883001	30 hp, 200V, 60 Hz, 3PH, IP55, 4P, IE3, FS
49210925001	30 hp, 230V/460V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210966001	30 hp, 575V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210875001	25 hp, 200V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210917001	25 hp, 230V/460V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210958001	25 hp, 575V, 60 Hz, TEFC, IE3 (FS)
49210867001	20 hp, 200V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210909001	20 hp, 230V/460V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210941001	20 hp, 575V, 3-PH, 60 Hz, IP55, 4P, IE3, FS
49210859001	15 hp, 200V, 60 Hz, TEFC, IE3 (FS)
49210891001	15 hp, 230/460V, 60 Hz, TEFC, IE3 (FS)
49210933001	15 hp, 575V, 60 Hz, TEFC, IE3 (FS)
ALTERNATE PARTS FOR MOTORS - RS15-22N (VARIABLE SPEED)	
49086390001	22 kW, 400V, 3-PH, 50 Hz, 4P, IE3, VS
49086382001	18.5 kW/25 hp, 400V, 3-PH, 50 Hz, 4P, IE3, VS
49086374001	15 kW/20 hp, 400V, 3-PH, 50 Hz, 4P, IE3, VS
49211139001	22 kW, 200V, 3-PH, 50/60 Hz, IP55, 4P, IE3, VS
49211121001	18.5 kW, 200V, 3-PH, 50/60 Hz, IP55, 4P, IE3, VS
49211113001	15 kW, 200V, 3-PH, 50/60 Hz, IP55, 4P, IE3, VS
49211196001	22 kW/30 hp, 575V, 3-PH, 50/60 Hz, 4P, IE3, VS
49211188001	18.5 kW/25 hp, 575V, 3-PH, 50/60 Hz, 4P, IE3, VS
49211170001	15 kW/20 hp, 575V, 3-PH, 50/60 Hz, 4P, IE3, VS

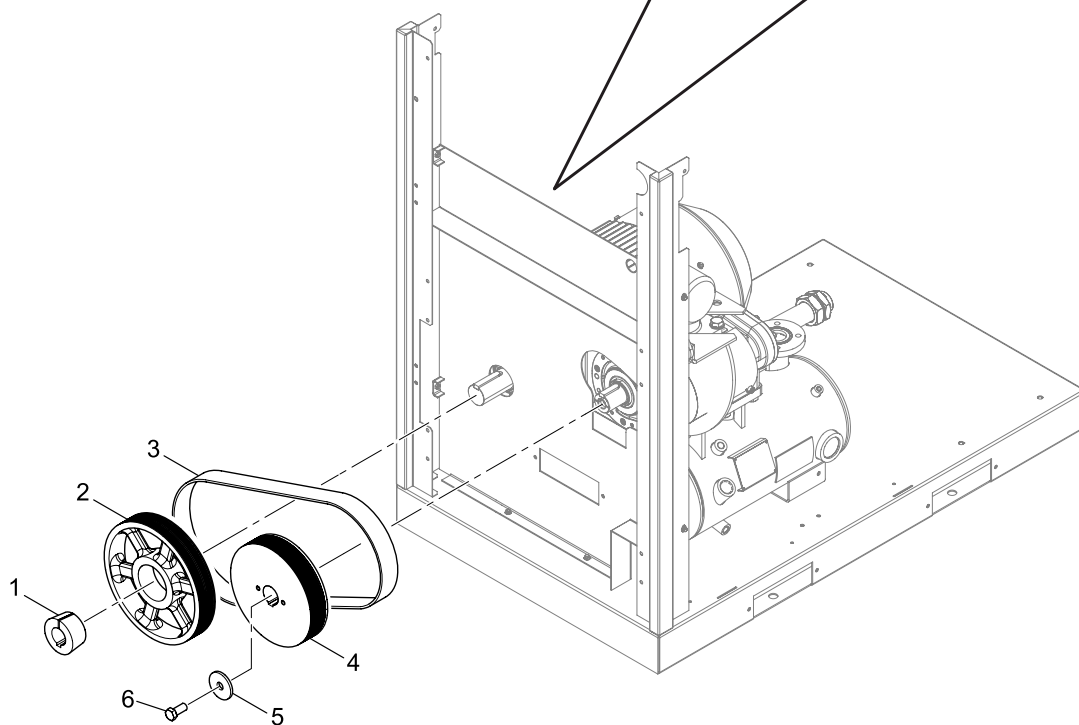
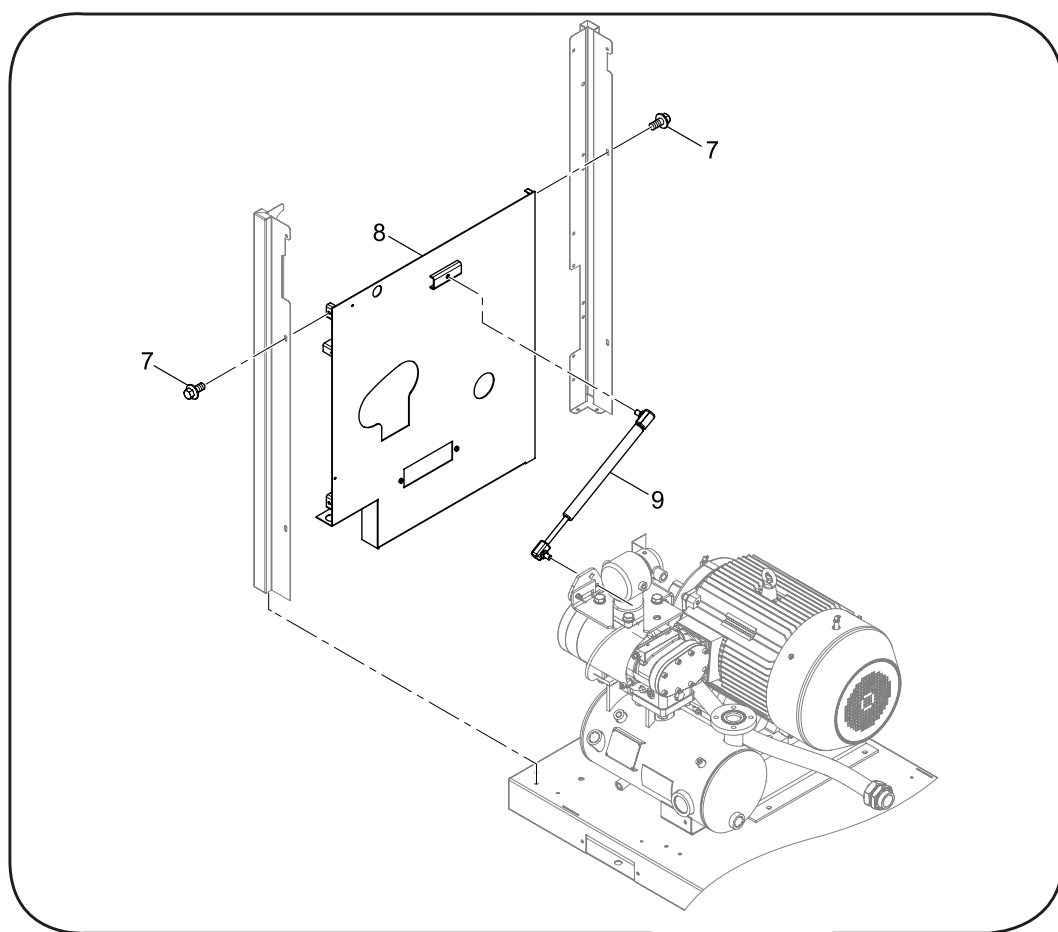
AIREND ASSEMBLY



AIREND ASSEMBLY

Item	Part No.	Description	Qty.
1	22637219	ASSEMBLY, AIREND	1
2	96771449	CONNECTOR	1
3	24492571	VALVE, IN-LINE CHECK	1
4	24314692	O-RING	1
5	24314718	RETAINING RING	1
6	47606769001	CONNECTOR	1
7	47587639001	ASSEMBLY, INTAKE VALVE	1
8	96701438	WASHER	4
	96702337	SCREW	4
9	96705058	SCREW	2
10	47581607001	GUARD, AIREND	1
11	96728233	SCREW	1
	96701404	WASHER	1
12	54749098	LINK, GAS SPRING TOGGLE	1
13	47581606001	BRACKET	1
14	96728431	NUT, SELF LOCKING	1
15	96701438	WASHER	4
	96738513	SCREW	4
16	96701438	WASHER	2
	96703186	SCREW	2
17	96772165	CAP, SCREW	1

DRIVE TRAIN



Item	Part No.	Description	Qty.
1	Table 4, p. 40	BUSHING, TAPERLOCK	1
2	Table 4, p. 40	PULLEY, MOTOR (POLY-V)	1
3	Table 4, p. 40	BELT DRIVE (POLY-V)	1
4	Table 4, p. 40	PULLEY, AIREND (POLY-V)	1
5	92751130	PLATE, RETAINING	1
6	96703186	SCREW	1
7	96705058	SCREW	6
8	47552930001	PANEL, SHEAVE GUARD	1
9	Table 3, p. 39	STRUT, GAS	1

Table 3. Alternate Part Numbers

Item	Part Number	Description	Remarks	Identification
1	54749114	STRUT, GAS 450-750N)	RS18I,RS15I,RS11I (50HZ) RS22I,RS18I,RS15I,RS11I (60HZ) RS18N,RS15N (50HZ & 60HZ) INCLUDE ALL VARIANTS	WHITE COLOR LOGO
2	47683859001	STRUT, GAS 600-960N)	RS22I (50HZ) RS22N (50HZ & 60HZ) (INCLUDE ALL VARIANTS)	BLUE COLOR LOGO

DRIVE TRAIN

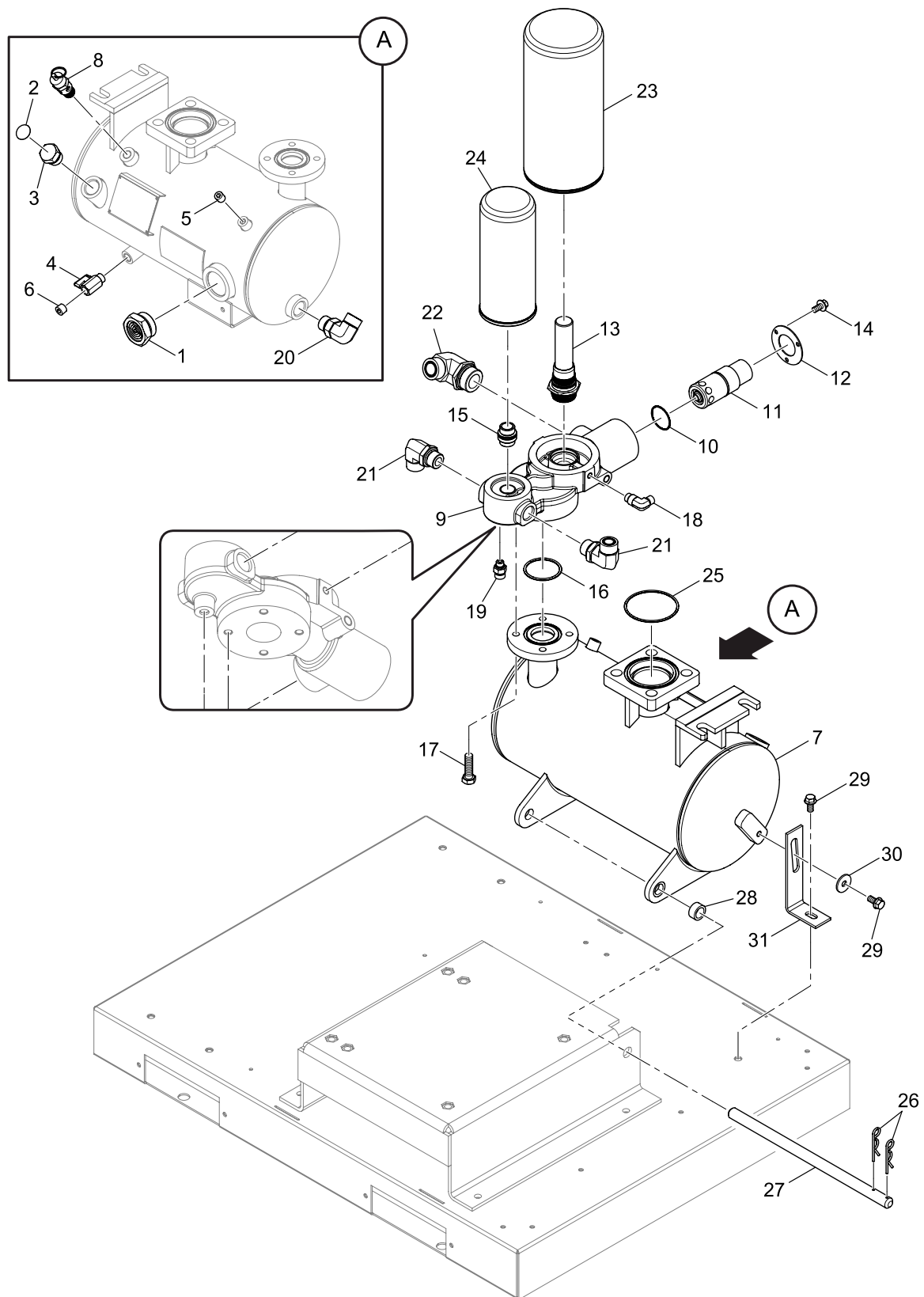
Table 4. Alternate Part Numbers

Application	Bushing (#1)	Pulley, Motor (#2)	Belt, Drive (#3)	Pulley, Airend (#4)
RS22I-A110	22077267	22108369	47602600008	47591117001
RS22I-A103 TAS	22077267	22108369	47602600008	47591117001
RS22I-A125	22077267	22108369	47602600008	47613939006
RS22I-A118 TAS	22077267	22108369	47602600008	47613939006
RS22I-A145	22077267	22108369	47602600005	47613939011
RS22I-A138 TAS	22077267	22108369	47602600005	47613939011
RS22I-A200	22077267	22108351	47602600005	47591119001
RS22I-A193 TAS	22077267	22108351	47602600005	47591119001
RS18.5I-A110	22077275	22108369	47602600005	47613939012
RS18.5I-A103 TAS	22077275	22108369	47602600005	47613939012
RS18.5I-A125	22077275	22108351	47602600008	47613939014
RS18.5I-A118 TAS	22077275	22108351	47602600008	47613939014
RS18.5I-A145	22077275	22108351	47602600005	47613939016
RS18.5I-A138 TAS	22077275	22108351	47602600005	47613939016
RS18.5I-A200	22077275	22108351	89265060	47613939022
RS18.5I-A193 TAS	22077275	22108351	89265060	47613939022
RS15I-A110	22077275	22108351	89265052	47591120001
RS15I-A103 TAS	22077275	22108351	89265052	47591120001
RS15I-A125	22077275	22108369	47602600001	47613939021
RS15I-A118 TAS	22077275	22108369	47602600001	47613939021
RS15I-A145	22077275	22108351	47602600001	47613939023
RS15I-A138 TAS	22077275	22108351	47602600001	47613939023
RS15I-A200	22077275	22108351	22108393	47613939028
RS15I-A193 TAS	22077275	22108351	22108393	47613939028
RS11I-A110	22077275	22108351	22108393	47613939027
RS11I-A103 TAS	22077275	22108351	22108393	47613939027
RS11I-A125	22077275	22108351	47602600003	47613939030
RS11I-A118 TAS	22077275	22108351	47602600003	47613939030
RS11I-A145	22077275	22108351	47602600004	47613939031
RS11I-A138 TAS	22077275	22108351	47602600004	47613939031
RS11I-A200	22077275	22108351	47602600007	47613939033
RS11I-A193 TAS	22077275	22108351	47602600007	47613939033
RS22I-A7.5	22077267	22108377	47602600008	47591111001
RS22I-A7 TAS	22077267	22108377	47602600008	47591111001
RS22I-A8.5	22077267	22108377	47602600005	47613939002
RS22I-A8 TAS	22077267	22108377	47602600005	47613939002
RS22I-A10	22077267	22108377	89265052	47591112001
RS22I-A9.5 TAS	22077267	22108377	89265052	47591112001
RS22I-A14	22077267	22108369	47602600005	47560151001
RS22I-A13.5 TAS	22077267	22108369	47602600005	47560151001
RS18.5I-A7.5	22077267	22108377	89265052	47591113001
RS18.5I-A7 TAS	22077267	22108377	89265052	47591113001
RS18.5I-A8.5	22077267	22108377	89265052	47613939007
RS18.5I-A8 TAS	22077267	22108377	89265052	47613939007
RS18.5I-A10	22077267	22108369	47602600005	22107700

Table 4. Alternate Part Numbers (continued)

Application	Bushing (#1)	Pulley, Motor (#2)	Belt, Drive (#3)	Pulley, Airend (#4)
RS18.5I-A9.5 TAS	22077267	22108369	47602600005	22107700
RS18.5I-A14	22077267	22108369	89265060	47613939015
RS18.5I-A13.5 TAS	22077267	22108369	89265060	47613939015
RS15I-A7.5	22077275	22108369	89265052	47613939013
RS15I-A7 TAS	22077275	22108369	89265052	47613939013
RS15I-A8.5	22077275	22108369	89265052	22107676
RS15I-A8 TAS	22077275	22108369	89265052	22107676
RS15I-A10	22077275	22108369	89265060	47613939019
RS15I-A9.5 TAS	22077275	22108369	89265060	47613939019
RS15I-A14	22077275	22108369	89265078	47591115001
RS15I-A13.5 TAS	22077275	22108369	89265078	47591115001
RS11I-A7.5	22077275	22108369	89265078	47613939024
RS11I-A7 TAS	22077275	22108369	89265078	47613939024
RS11I-A8.5	22077275	22108369	47602600002	47613939026
RS11I-A8 TAS	22077275	22108369	47602600002	47613939026
RS11I-A10	22077275	22108377	47602600010	47613939029
RS11I-A9.5 TAS	22077275	22108377	47602600010	47613939029
RS11I-A14	22077275	22108351	47602600010	47591116001
RS11I-A13.5 TAS	22077275	22108351	47602600010	47591116001
RS22N	22077267	22108377	89265052	47613939004
RS22N-TAS	22077267	22108377	89265052	47613939004
RS18N	22077267	22108369	47602600005	47613939011
RS18N-TAS	22077267	22108369	47602600005	47613939011
RS15N	22077267	22108351	89265052	47613939018
RS15N-TAS	22077267	22108351	89265052	47613939018

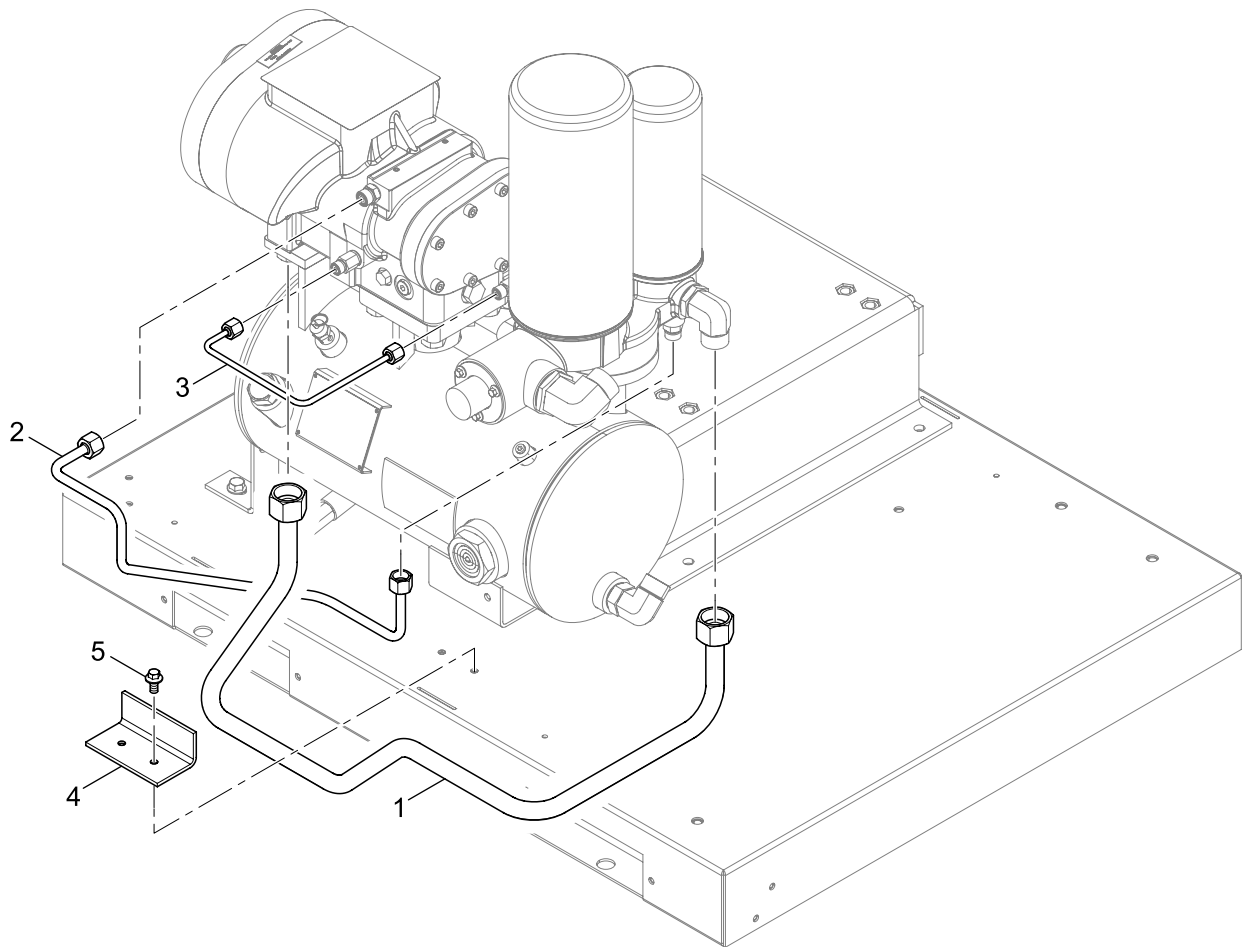
SEPERATOR TANK - MOUNTING



SEPERATOR TANK - MOUNTING

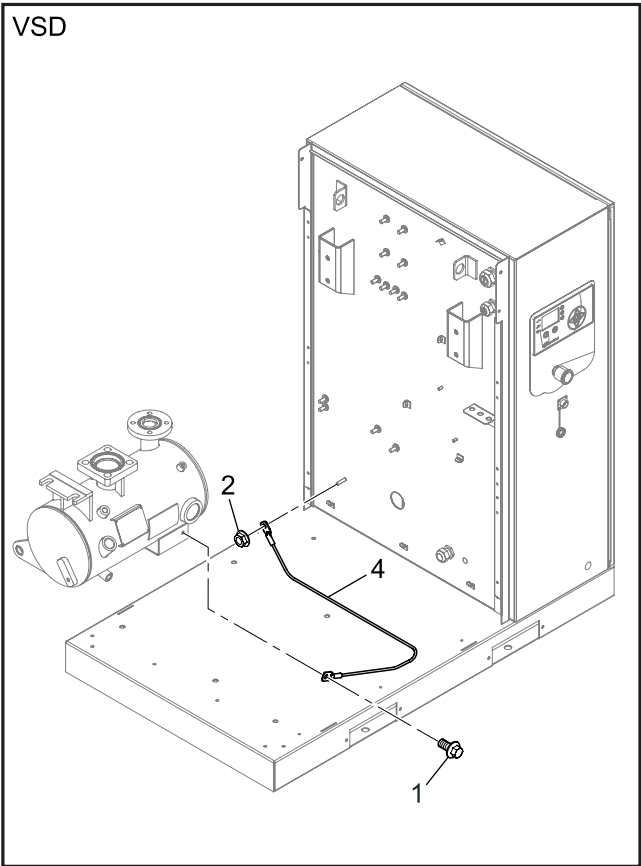
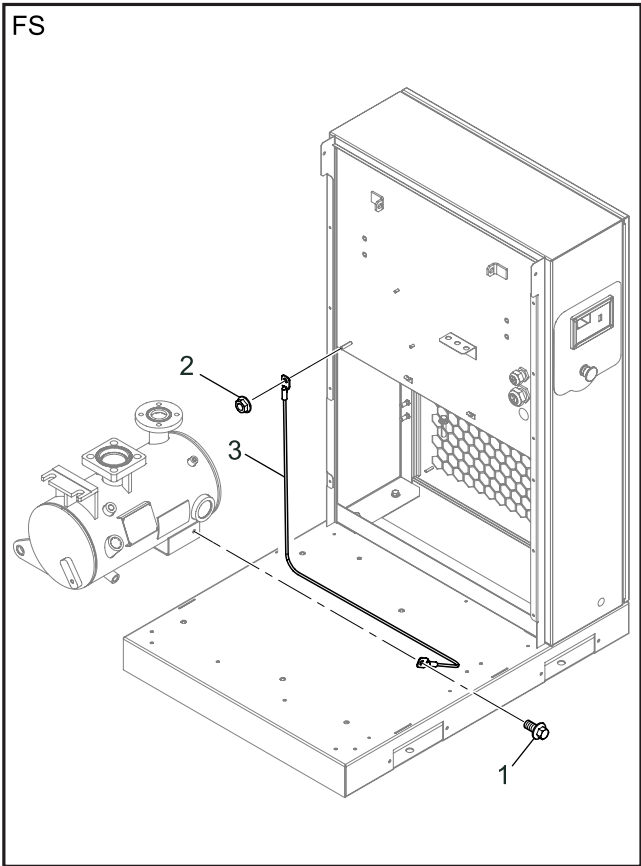
Item	Part No.	Description	Qty.
1	23404866	ASSEMBLY, SIGHT GLASS	1
2	23540586	DECAL, ULTRA COOLANT	1
	24071771	DECAL, ULTRA EL	1
	24071755	DECAL, ULTRA FG	1
3	23980840	PLUG OIL FILL	1
4	54723341	VALVE	1
5	95837233	PLUG, SOCKET (FS)	1
	39155577	ELBOW, TUBING (VSD)	1
6	95928222	PLUG	1
7	47557724001	TANK, SEPARATOR, ASME, NR-13	1
	47589559001	TANK, SEPARATOR , AS 1210, ASME, PACIFIC (RIM)	1
	47589560001	TANK, SEPARATOR - CE	1
	47589561001	TANK, SEPARATOR - GB150	1
	47589562001	TANK, SEPARATOR - TUV	1
8	47633798001	VALVE, SAFETY (ASME)	1
	47633800001	VALVE, SAFETY (CE)	1
	47643425001	VALVE, SAFETY (GB)	1
9	22809131	MANIFOLD, FILTER	1
10	39151915	O-RING	1
11	39446968	VALVE, MINIMUM PRESSURE	1
12	39447537	PLATE, MPCV RETAINER	1
13	49024201	STEM, AIR OIL SEPARATOR	1
14	96705058	SCREW	3
15	47549000001	NIPPLE	1
16	95357976	O-RING	1
17	96704309	SCREW	4
18	24131872	ELBOW	1
19	59922443	CONNECTOR	1
20	96757703	ELBOW	1
21	96960786	ELBOW	2
22	96960851	ELBOW	1
23	24900342	ELEMENT, AIR OIL SEPARATOR	1
24	24900433	ELEMENT, COOLANT	1
25	95022349	O-RING, STANDARD	1
26	95433819	PIN, COTTER	2
27	47598003001	SHAFT, MOTOR PIVOT	1
28	47606775001	SPACER, NYLON	1
29	96737549	SCREW	2
30	96745583	WASHER	1
31	47598027001	BRACKET, SHIPPING	1

SEPERATOR TANK - TUBING



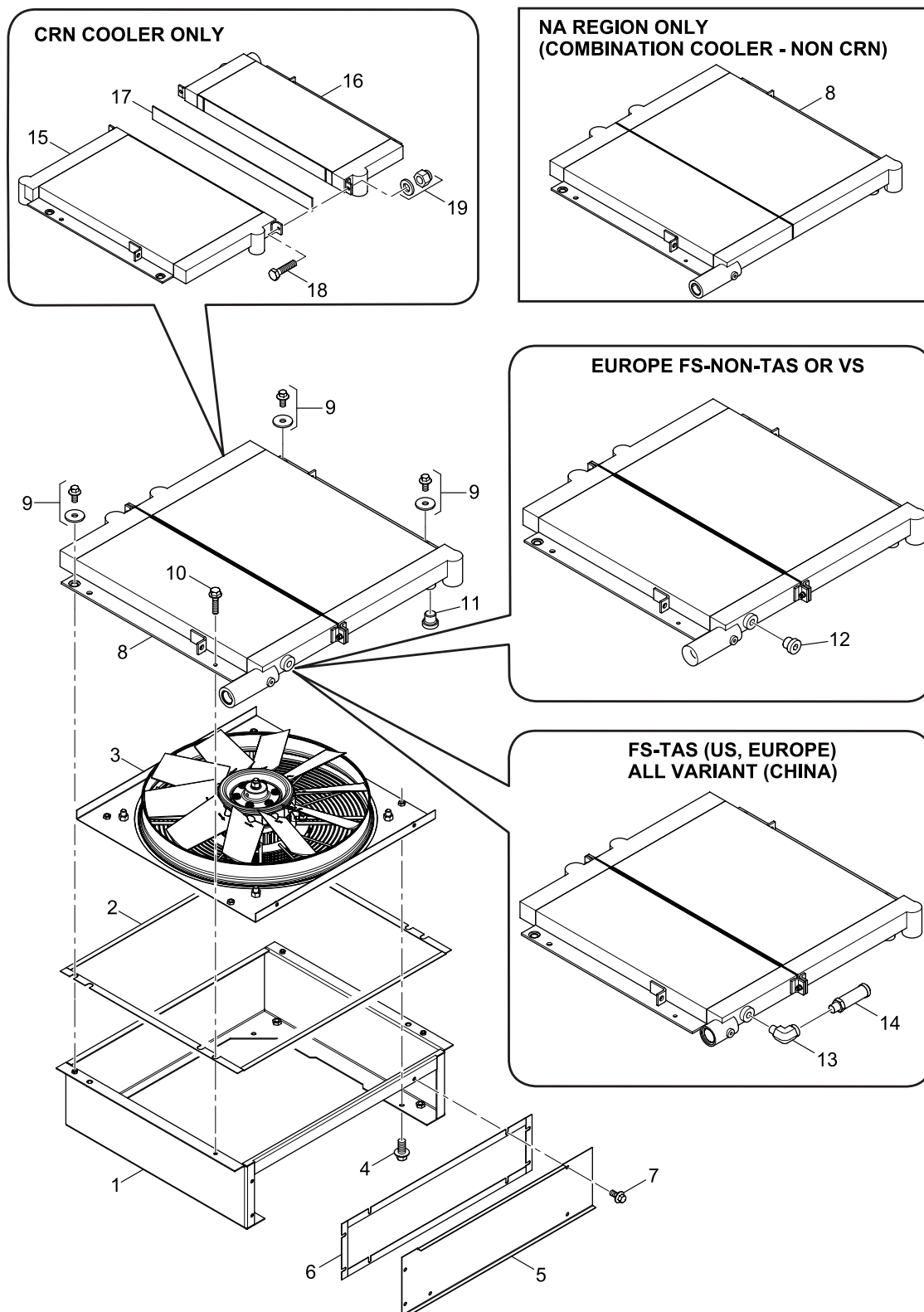
Item	Part No.	Description	Qty.
1	47581594001	TUBE, COMBI BLOCK TO AIREND INJECTION	1
2	47581595001	TUBE, OIL FEED REAR BEARING	1
3	47581596001	TUBE, SCAVENGE	1
4	23228067	BRACE, SHIPPING	1
5	96705058	SCREW	2

SEPERATOR TANK - CABLE GROUND



Item	Part No.	Description	Qty.
1	96704218	SCREW	1
2	96704416	NUT	1
3	47594831001	CABLE EARTH GROUND - FS	1
4	47604975001	CABLE, EARTH GROUND - VSD	1

COOLER ASSEMBLY

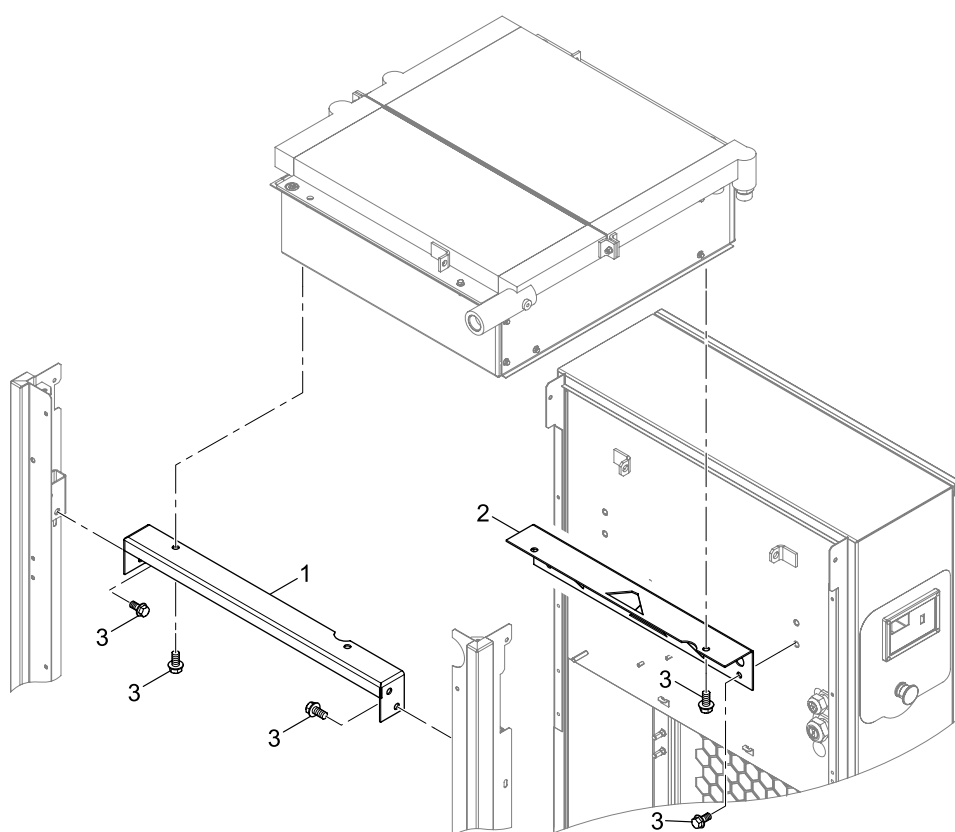


COOLER ASSEMBLY

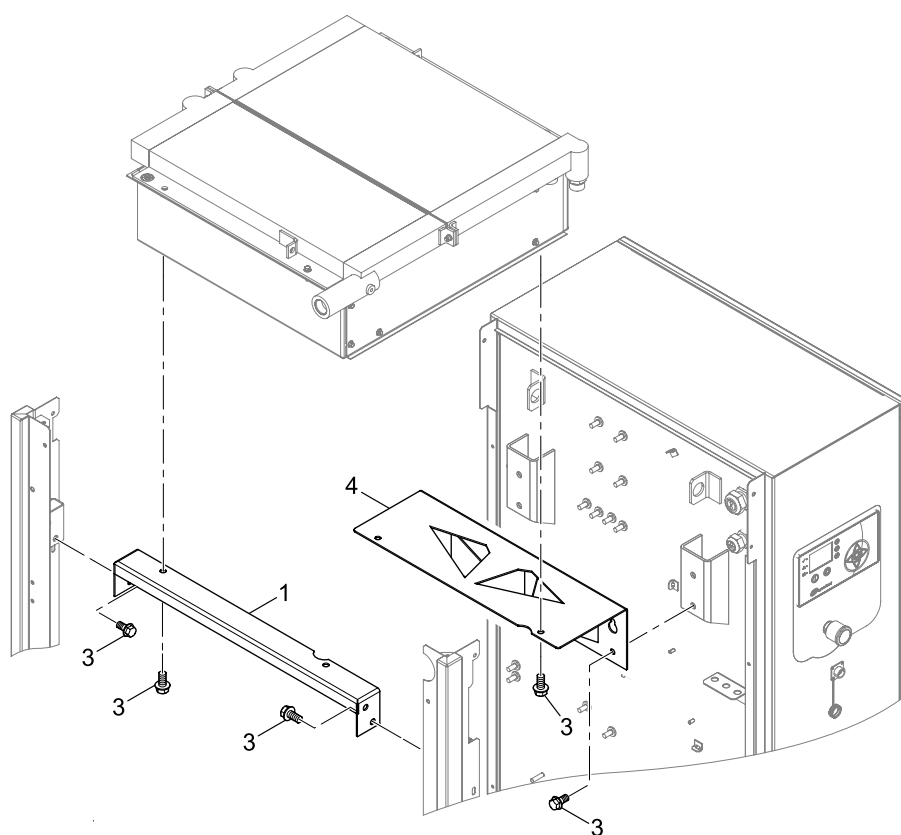
Item	Part No.	Description	Qty.
1	47598661001	ASSEMBLY PLENUM	1
	47581609001	ASSEMBLY PLENUM (CRN COOLER)	1
2	47606765001	GASKET, PLENUM	1
3	47600091001	ASSEMBLY, FAN-MOTOR, 230V, 400V, 50 Hz	1
	47600090001	ASSEMBLY, FAN-MOTOR, 575V, 60 Hz	1
	47600089001	ASSEMBLY, FAN-MOTOR, 200V, 380V, 60 Hz	1
	47600088001	ASSEMBLY, FAN-MOTOR, 220-230V, 440-460V, 60 Hz	1
4	96704218	SCREW	4
5	47605630001	COVER, PLENUM	1
	47606778001	COVER, PLENUM (CRN COOLER)	1
6	47605631001	GASKET, PLENUM COVER	1
	47606779001	GASKET, PLENUM COVER (CRN COOLER)	1
7	96705058	SCREW	5
8	47626008001	COOLER, ASSEMBLY (BSPT) NON TAS - CHINA & EUROPE	1
	47581152001	COOLER, ASSEMBLY (METRIC) TAS - CHINA & EUROPE	1
	47694717001	COOLER, ASSEMBLY (NPT) - NA ONLY (COMBINATION COOLER - NON CRN)	1
	47694724001	COOLER, ASSEMBLY (METRIC) - NA ONLY (COMBINATION COOLER - NON CRN)	1
9	96705058	SCREW	3
	96745559	WASHER	3
10	96728571	SCREW	1
11	96954193	PLUG	1
12	95928230	PLUG, (NON-TAS) EUROPE ONLY	1
13	95250361	ELBOW	1
14	47633799001	VALVE, PRESSURE SAFETY, NPT (TAS), US	1
	22057954	VALVE, SAFETY, 15BAR, NPT (TAS) EUROPE	1
	47643426001	VALVE, PRESSURE SAFETY, 8.5 BAR, CHINA	1
	47643427001	VALVE, PRESSURE SAFETY, 9.5 BAR, CHINA	1
	47643428001	VALVE, PRESSURE SAFETY, 11 BAR, CHINA	1
	47643429001	VALVE, PRESSURE SAFETY, 15.4 BAR, CHINA	1
15*	47581154001	COOLER, OIL	1
16*	47596851001	COOLER, AIR (CRN)	1
17*	47619768001	GASKET	1
18*	96701461	SCREW	2
19*	96704598	NYLOCK	2
	96769963	WASHER	2
*	USED WHEN CRN COOLER INSTALLED		

COOLER ASSEMBLY

FS



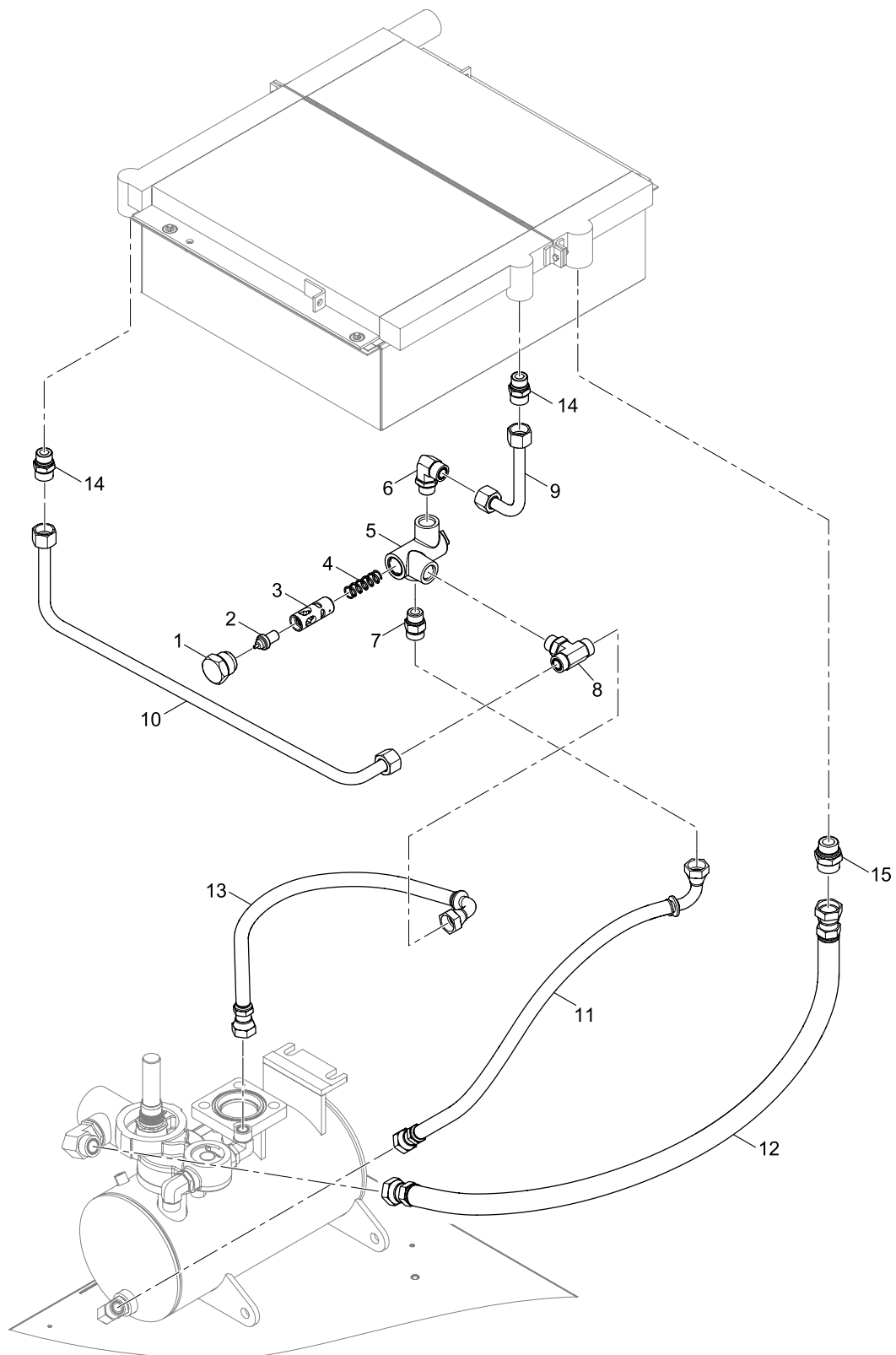
VSD



COOLER ASSEMBLY

Item	Part No.	Description	Qty.
1	47569496001	SUPPORT, COOLER LEFT SIDE	1
2	47574611001	SUPPORT, COOLER RIGHT SIDE (FS)	1
3	96737549	SCREW	12
4	47606764001	SUPPORT, COOLER RIGHT SIDE (VSD)	1

COOLER TUBING ASSEMBLY

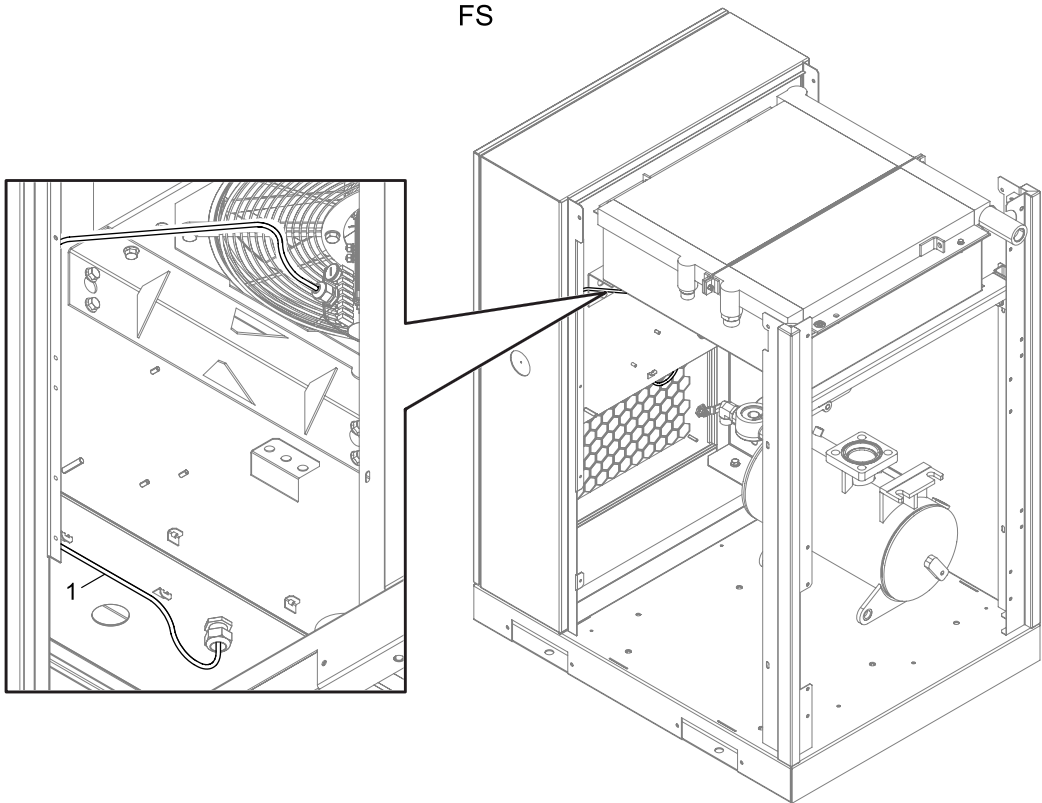


COOLER TUBING ASSEMBLY

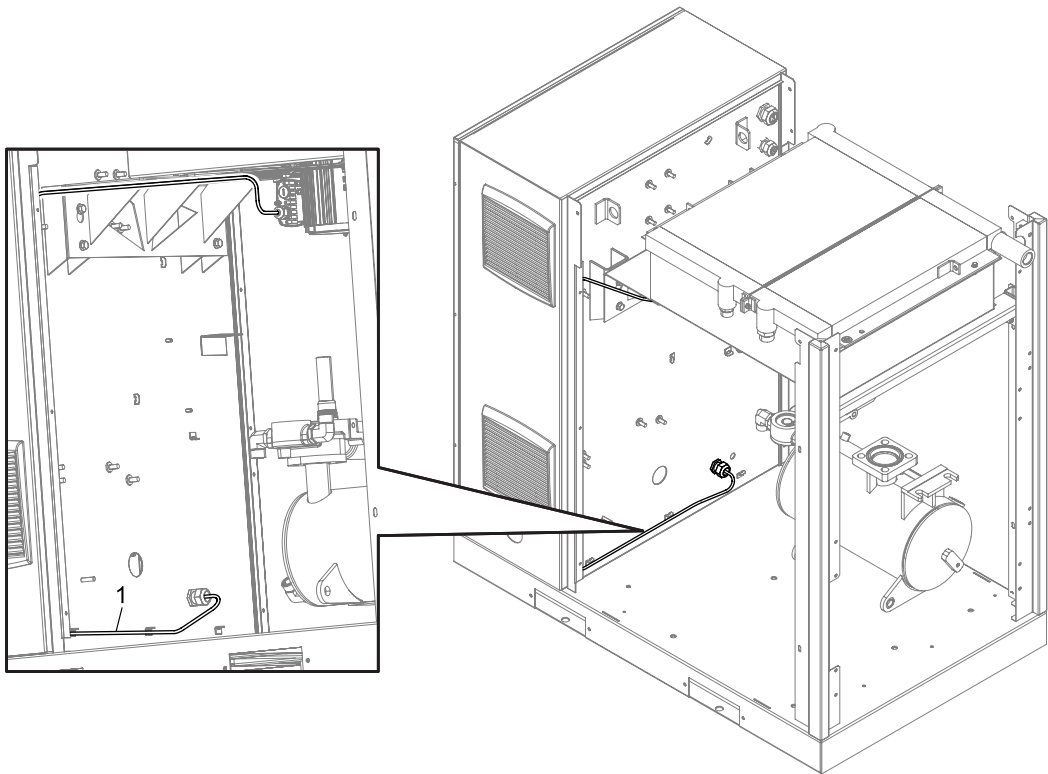
Item	Part No.	Description	Qty.
1	47655536001	PLUG, THERMAL VALVE	1
2	22463368	ACTUATOR, THERMAL (FS (ON-OFF) : 10 & 14 BARG, 145 & 200 PSIG) (FS (MODULATION): 10 BARG, 145 PSIG) (ALL VSD CONFIGURATION)	1
	47589616001	ACTUATOR, THERMAL (FS (ON-OFF) : 7.5 & 8.5 BARG, 110 & 125 PSIG) (FS (MODULATION): 7.5 & 8.5 BARG, 110 & 125 PSIG)	
3	22856991	CAGE, THERMAL VALVE	1
4	22186696	SPRING, THERMAL VALVE	1
5	22679914	MANIFOLD, THERMAL VALVE	1
6	96960786	ELBOW	1
7	96960513	CONNECTOR	1
8	96961321	TEE	1
9	47581599001	TUBE, OIL COOLER IN	1
10	47605633001	TUBE, OIL COOLER OUT	1
11	24262123	HOSE (US & EUROPE REGION)	1
	48662688	HOSE (CHINA REGION)	1
12	85575058	HOSE	1
13	24260846002	HOSE (US & EUROPE REGION)	1
	85574218	HOSE (CHINA REGION)	1
14	96758065	CONNECTOR	2
15	96758081	CONNECTOR	1

FAN MOTOR CABLE ASSEMBLY

FS

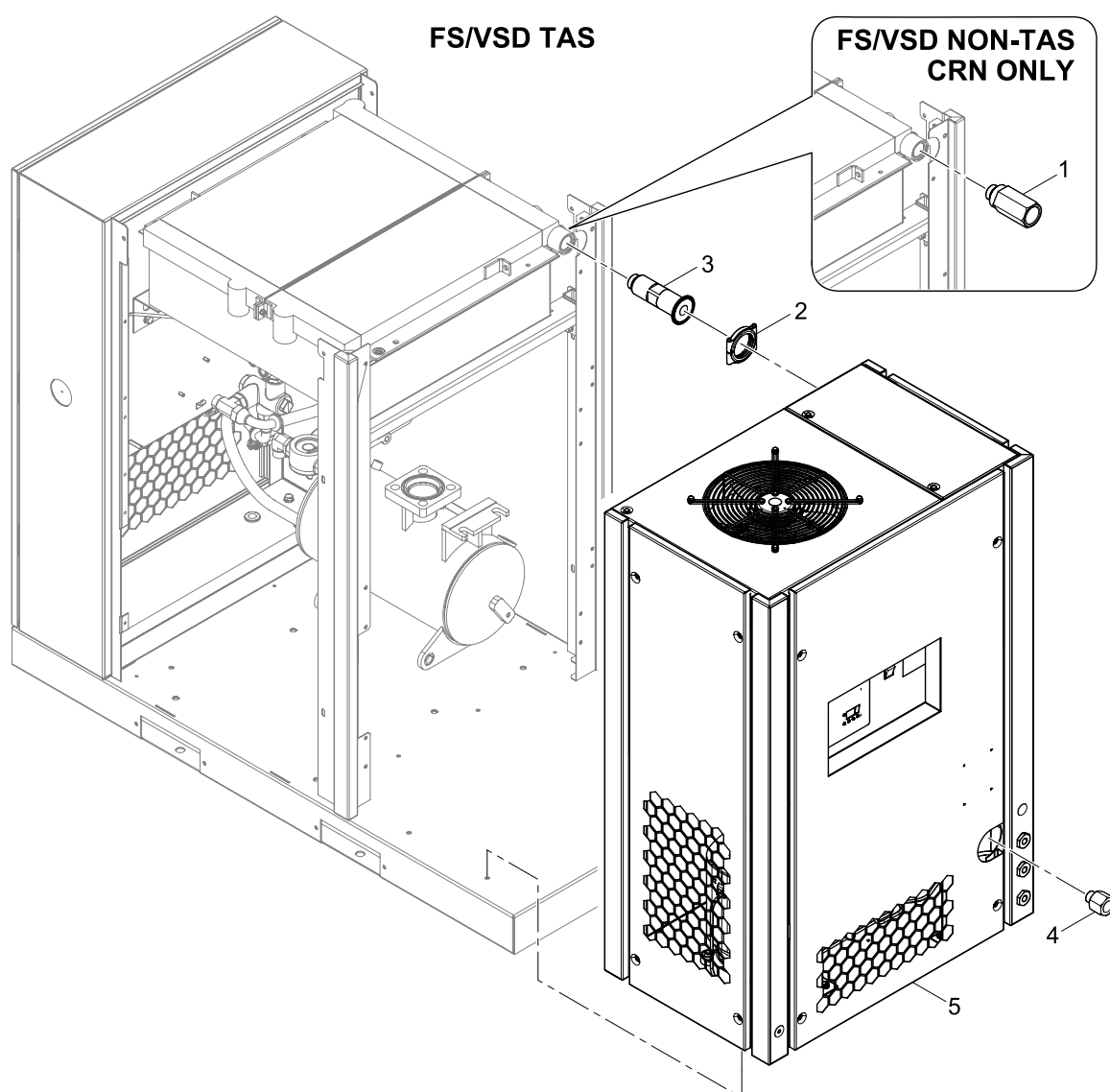


VSD



Item	Part No.	Description	Qty.
1	47594834001	CABLE, FAN MOTOR	1

CUSTOMER CONNECTION

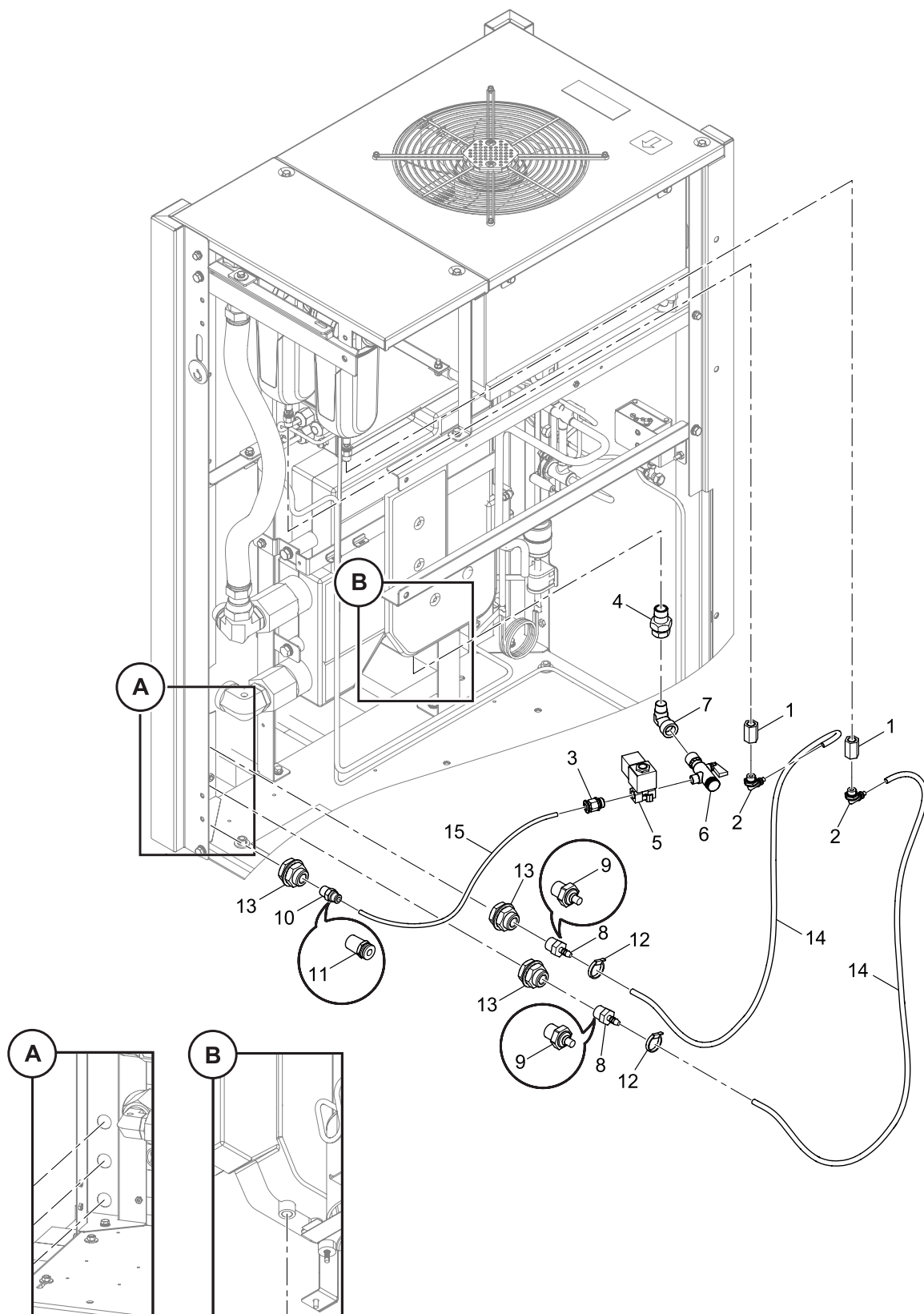


Item	Part No.	Description	Qty.
1	47547696001	CONNECTOR, CUSTOMER, NON-TAS, CRN ONLY	1
2	24361933	CLAMP	1
3	47600603001	CONNECTION, DRYER	1
4	96769492	ADAPTER (NPT)	1
	47582572002	ADAPTER (BSPT)	1
5	Table 5, p. 53	DRYER ASSEMBLY	1

Table 5. Alternate Part Numbers

Dryer Assembly (#5)	Application
47623393001	DRYER STANDARD 22 kW, 230V, 50 Hz, 1PHASE, EMEA & AP
47623394001	DRYER STANDARD 22 kW, 115V, 60 Hz, 1PHASE, US
47623395001	DRYER STANDARD 11/15/18 kW, 230V, 50 Hz, 1PHASE, EMEA & AP
47623396001	DRYER STANDARD 11/15/18 kW, 115V, 60 Hz, 1PHASE, US

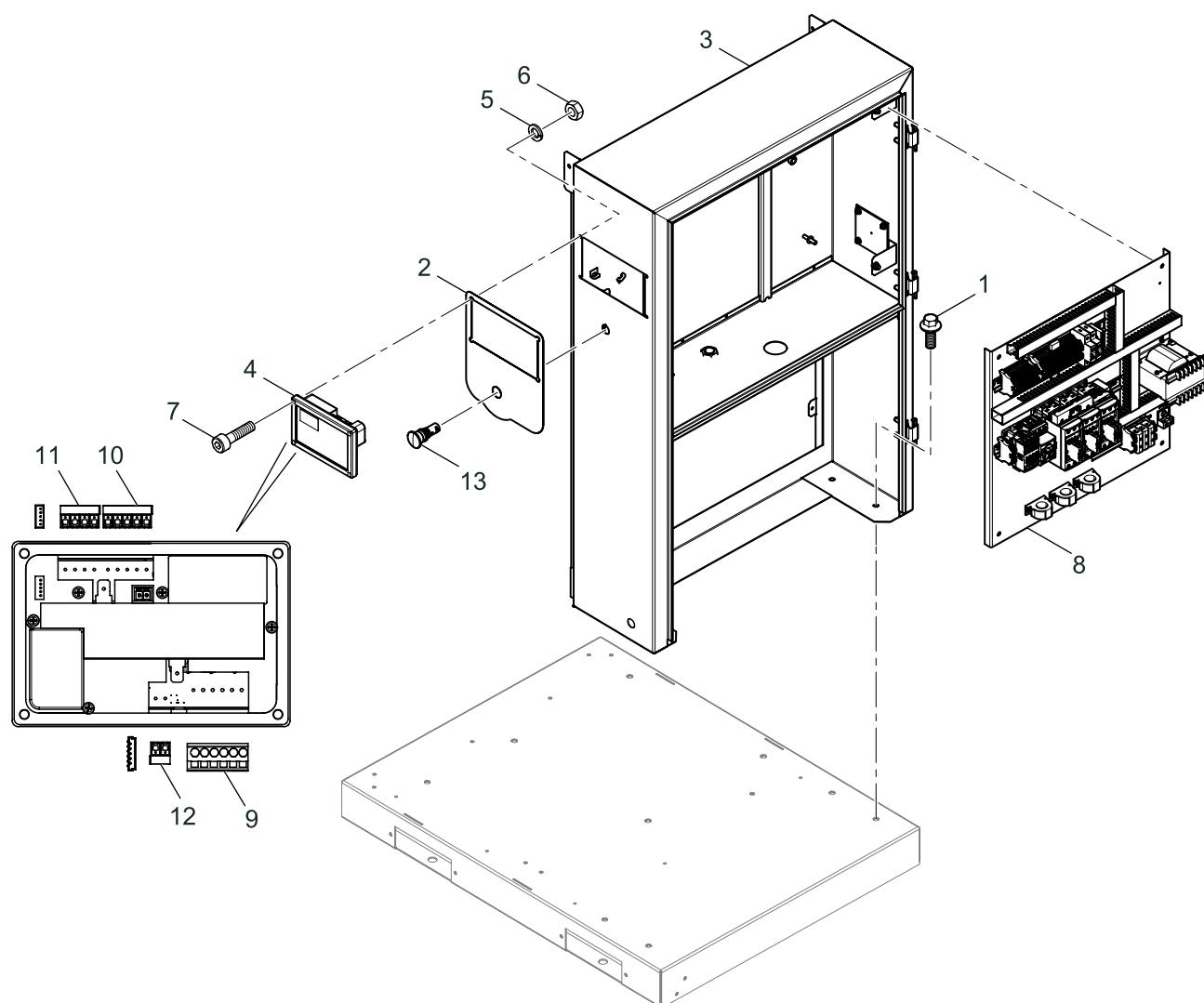
TIMER CONDENSATE DRAIN (TAS) - (NPT & BSPT)



TIMER CONDENSATE DRAIN (TAS) - (NPT & BSPT)

Item	Part No.	Description	Qty.
1	47625270001	UNION	2
2	47628909001	ELBOW	2
3	23642556	CONNECTION, STRAIGHT	1
4	23690134	FITTING	1
5	38457537	VALVE (NPT)	1
	38459665	VALVE (BSPT)	1
6	38457636	VALVE, BALL WITH FILTER	1
7	46838702	COPPERRIGHT, ANGLE CONNECTOR	1
8	22132971	CONNECTOR (NPT)	2
9	47628910001	CONNECTOR (BSPT)	2
10	22601371	CONNECTOR (NPT)	1
11	96952890	CONNECTOR (BSPT)	1
12	92281427	WRAP (NPT)	2
13	47581652001	CONNECTOR, BULKHEAD (NPT)	3
	47581653001	CONNECTOR, BULKHEAD (BSPT)	3
14	47628907001	TUBE, DISCHARGE	2.2m
15	23617699	TUBE, DRAIN DISCHARGE	0.6m

STARTER BOX - FS (XE-50)



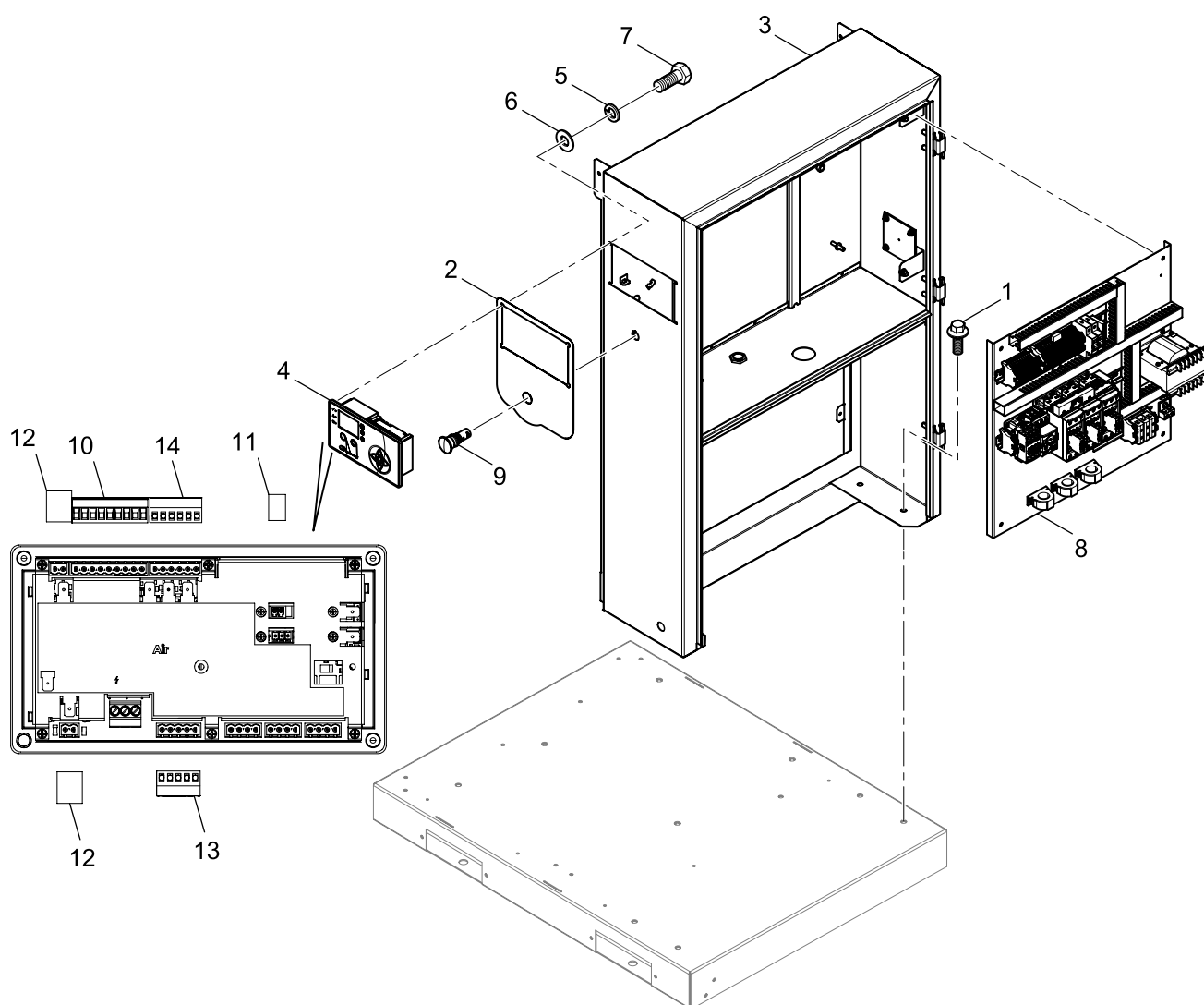
STARTER BOX - FS (XE-50)

Item	Part No.	Description	Qty.
1	96737549	SCREW	4
2	47499668001	DECAL, FACIA XE-50M	1
3	Table 6, p. 57	STARTER BOX, FIXED SPEED	1
4	24301434	CONTROLLER, XE-50M	1
5	92340447	WASHER, LOCK	4
6	96703756	NUT	4
7	96721147	SCREW	4
8	Table 6, p. 57	BACK PANEL, XE-50M	1
9	39186093	PLUG, 6 POSITION	1
10	22076699	PLUG, 5 POSITION	8
11	39186101	PLUG, 4 POSITION	1
12	54729546	CONNECTOR, 2 WAY (EMEA)	2
	39242367	PLUG, 2 POSITION (NA)	1
13	23990716	STOP, EMERGENCY	1

Table 6. Alternate Part Numbers

Application	Starter Box (#3)	Backpanel (#8)
11 kW, 230V - 50 Hz	47566016001	47638789001
11 kW, 400V - 50 Hz	47566017001	47638791001
15 kW, 230V - 50 Hz	47566084001	47638793001
15 kW, 400V - 50 Hz	47566085001	47582895001
18.5 kW, 230V - 50 Hz	47566086001	47638795001
18.5 kW, 400V - 50 Hz	47560209001	47560211001
22 kW, 230V - 50 Hz	47566088001	47638797001
22 kW, 400V - 50 Hz	47625296001	47625468001
15 hp, 200V - 60 Hz	47566003001	47638767001
15 hp, 230V - 60 Hz	47566004001	47633697001
15 hp, 380V - 60 Hz/20 hp, 575V - 60 Hz	47566005001	47638769001
15 hp, 460V - 60 Hz	47625292001	47638771001
15 hp, 575V - 60 Hz	47566006001	47633695001
20 hp, 200V - 60 Hz	47594621001	47638773001
20/25 hp, 230V - 60 Hz	47566077001	47627470001
20/25 hp, 460V - 60 Hz	47625291001	47638777001
25 hp, 200V - 60 Hz	47566076001	47638779001
25 hp, 575V - 60 Hz	47566080001	47638781001
30 hp, 200V - 60 Hz	47594620001	47638783001
30 hp, 230V - 60 Hz	47566015001	47633693001
30 hp, 460V - 60 Hz	47625290001	47627472001
30 hp, 575V - 60 Hz	47566083001	47638787001

STARTER BOX - FS (XE-70)



STARTER BOX - FS (XE-70)

Item	Part No.	Description	Qty.
1	96737549	SCREW	4
2	47500205001	DECAL, FACIA XE-70M	1
3	Table 7, p. 61	STARTER BOX, FIXED SPEED	1
4	24114068	CONTROLLER, XE-50M(CONTROLLER FS)	1
	24114050	CONTROLLER, XE-50M(CONTROLLER FS WITH ECO)	
5	92340447	WASHER, LOCK	4
6	96705165	WASHER	4
7	96742358	HHCS	4
8	Table 7, p. 61	BACK PANEL, XE-70M	1
9	23990716	STOP, EMERGENCY	1
10	47518365	PLUG, 9 POSITION	1
11	54729546	CONNECTOR, 2 WAY	1
12	39242367	PLUG, 2 POSITION	2
13	39191630	PLUG, 5 POSITION	1
14	39186093	PLUG, 6 POSITION	1

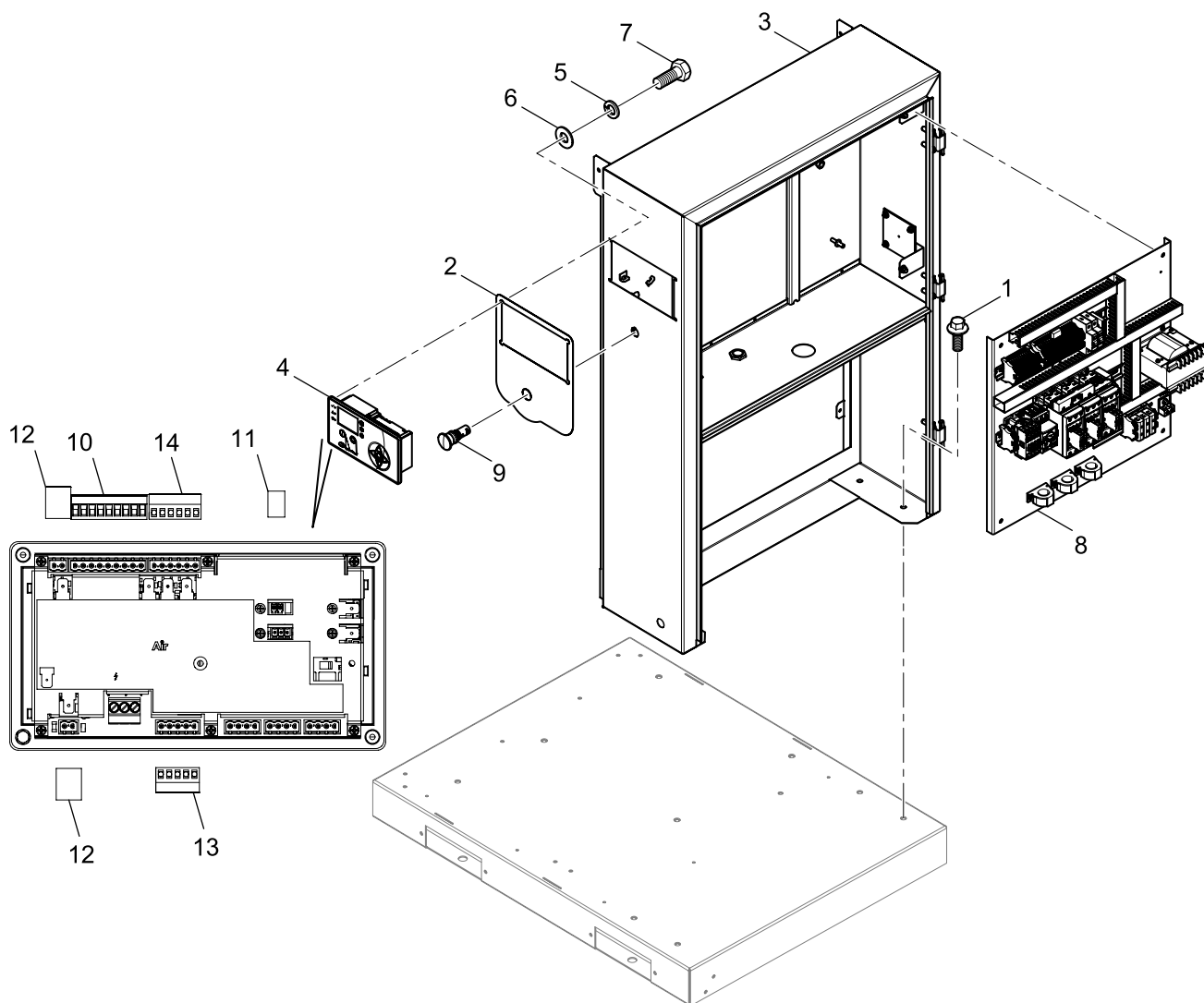
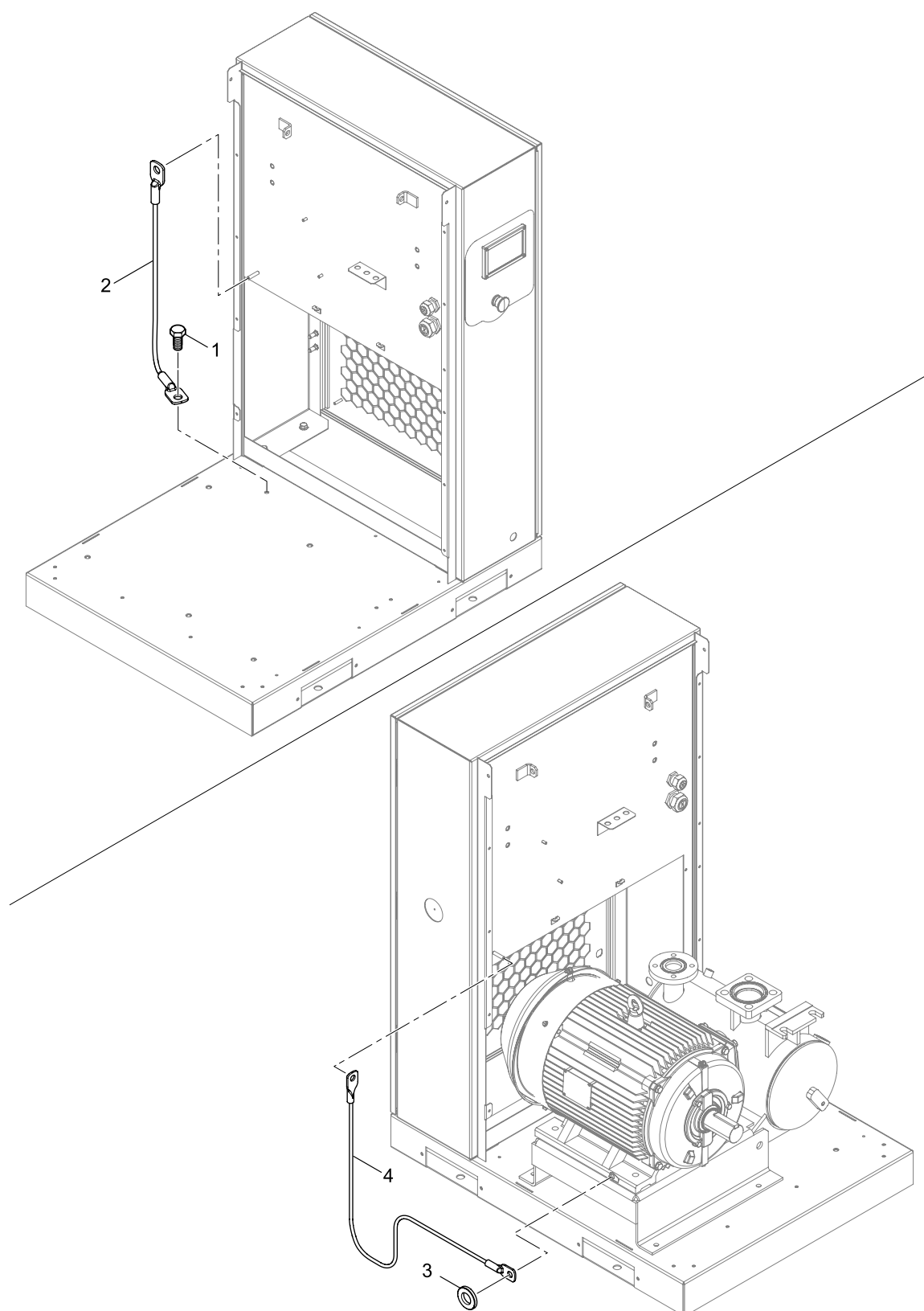


Table 7. Alternate Part Numbers

Application	Starter Box (#3)	Backpanel (#8)
11 kW, 230V - 50 Hz	47620464001	47639563001
11 kW, 400V - 50 Hz	47620463001	47639565001
15 kW, 230V - 50 Hz	47620455001	47639567001
15 kW, 400V - 50 Hz	47620453001	47639569001
18 kW, 400V - 50 Hz	47620469001	47639573001
18.5 kW, 230V - 50 Hz	47620452001	47639571001
22 kW, 230V - 50 Hz	47620451001	47639561001
22 kW, 400V - 50 Hz	47625297001	47639556001
15 hp, 200V - 60 Hz	47620468001	47642358001
15 hp, 230V - 60 Hz	47620467001	47642356001
15 hp, 380V - 60 Hz/20 hp, 575V - 60 Hz	47620466001	47642354001
15 hp, 460V - 60 Hz	47625295001	47642352001
15 hp, 575V - 60 Hz	47620465001	47642350001
20 hp, 200V - 60 Hz	47620444001	47642348001
20/25 hp, 230V - 60 Hz	47620460001	47642346001
20/25 hp, 460V - 60 Hz	47625294001	47642342001
25 hp, 200V - 60 Hz	47620461001	47642340001
25 hp, 575V - 60 Hz	47620458001	47642338001
30 hp, 200V - 60 Hz	47620445001	47642336001
30 hp, 230V - 60 Hz	47620454001	47642334001
30 hp, 460V - 60 Hz	47625293001	47639578001
30 hp, 575V - 60 Hz	47620456001	47639576001

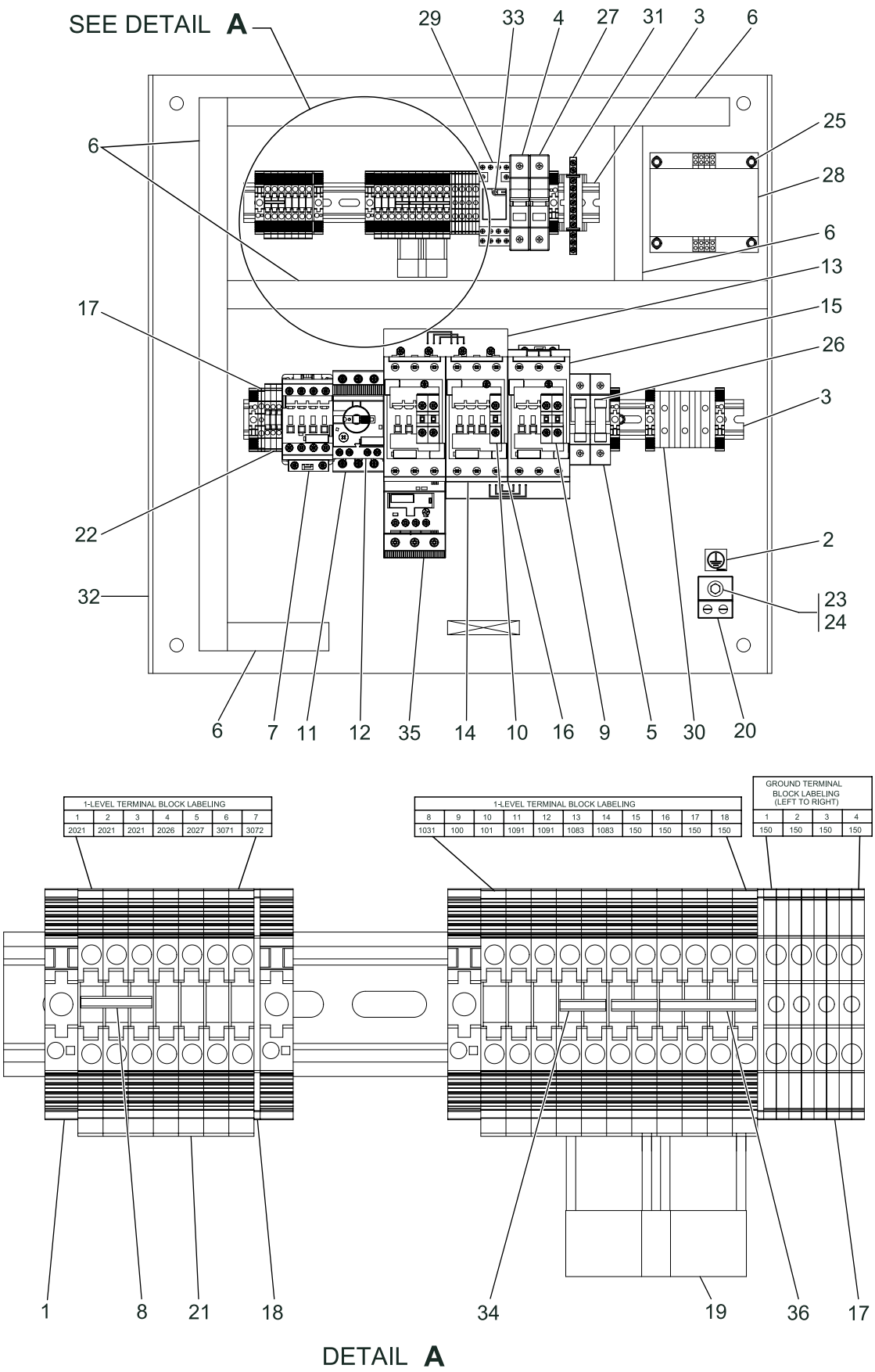
STARTER BOX - FS (CABLE GROUND)



STARTER BOX - FS (CABLE GROUND)

Item	Part No.	Description	Qty.
1	96704218	SCREW	1
2	47618625001	CABLE, EARTH GROUND	1
3	96727581	WASHER	1
4	47594833001	CABLE, EARTH GROUND	1

BACKPANEL, (FS- STAR DELTA XE-50) - EMEA



BACKPANEL, (FS- STAR DELTA XE-50) - EMEA

Item	Part No.	Description	Qty.
1	47519190001	TERMINAL, DIN STOP	8
2	22477244	DECAL, GROUND SYMBOL	1
3	23464530	RAIL, DIN	A/R
4	23770514	BREAKER, CIRCUIT	1
5	24141962	HOLDER, FUSE	1
6	24225294	DUCT, WIRING	A/R
7	24469686	CONTACTOR	1
8	Table 8, p. 67	JUMPER, TERMINAL 3-POLE	1
9	24474116	CONTACT, AUX	3
10	24474124	CONTACT, AUX	2
11	Table 8, p. 67	STARTER, MANUAL MOTOR	1
12	24482895	CONTACT, AUX	1
13	Table 8, p. 67	KIT, CONNECTION	1
14	Table 8, p. 67	CONTACTOR	2
15	Table 8, p. 67	CONTACTOR	1
16	Table 8, p. 67	INTERLOCK, MECHANICAL	1
17	47519188001	TERMINAL, EARTH	5
18	47519189001	TERMINAL, END PLATE	2
19	39203443	SUPPRESSOR, ARC	2
20	49089089	LUG, GROUNDING	1
21	47519187001	TERMINAL, WIRE 1-LEVEL	18
22	93469625	TERMINAL, WIRE	3
23	96705058	SCREW	1
24	96737564	NUT	1
25	96751722	SCREW	21
26	47499665001	FUSE	2
27	47499666001	BREAKER, CIRCUIT	1
28	Table 8, p. 67	TRANSFORMER, CONTROL	1
29	47499669001	BASE, RELAY	1
30	47513032001	TERMINAL, GREY	3
31	47541022001	BUS, GROUNDING	1
32	47574610001	PANEL, BACK	1
33	47582053001	RELAY	1
34	47601730001	JUMPER, TERMINALBLOCK	2
35	Table 8, p. 67	RELAY, THERMAL OVERLOAD	1
36	47519185001	JUMPER, TERMINAL BLOCK	1

A/R	AS REQUIRED
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Note: 47638797001 is illustrated.

BACKPANEL, (FS- STAR DELTA XE-50) - EMEA

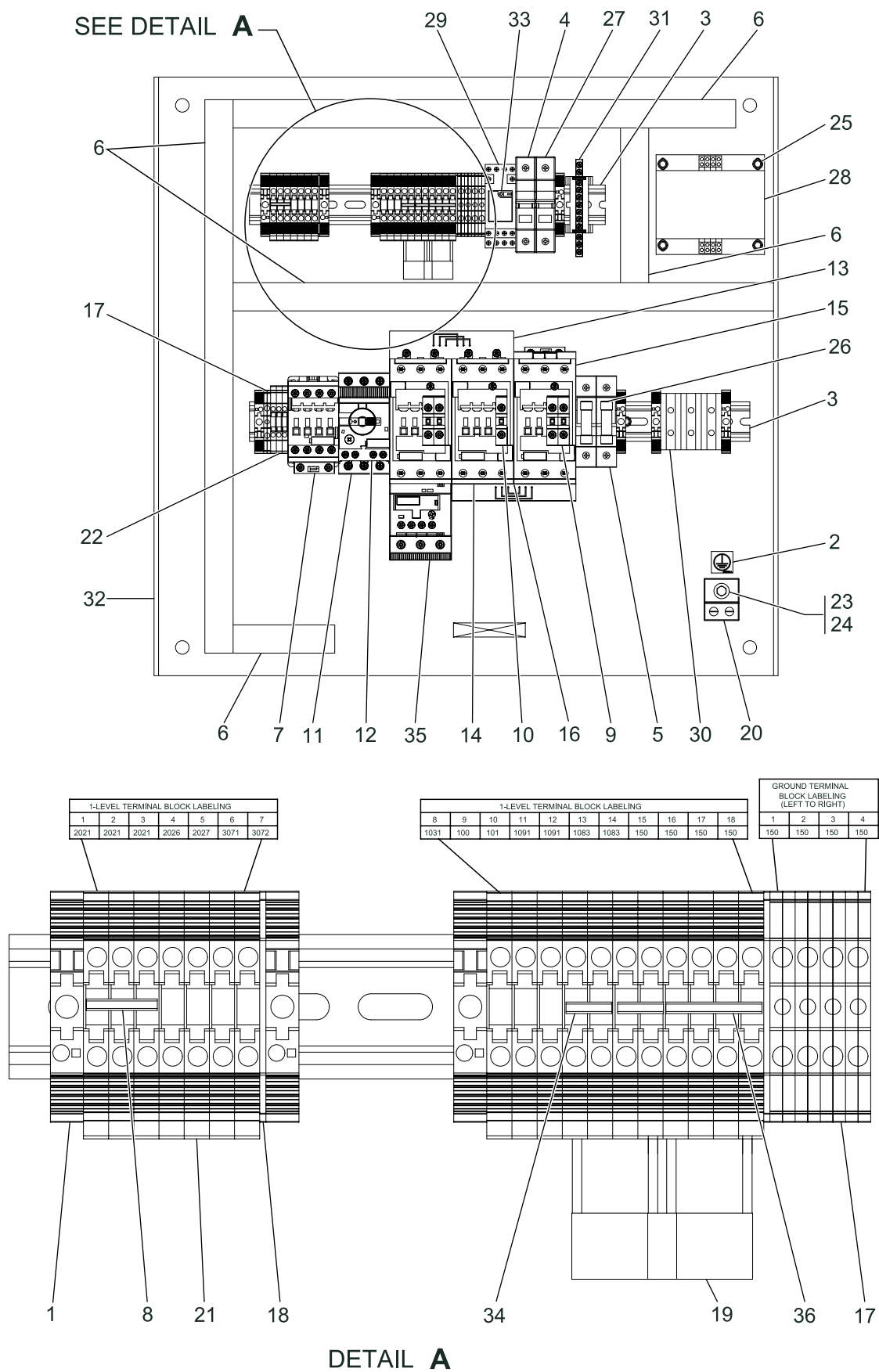
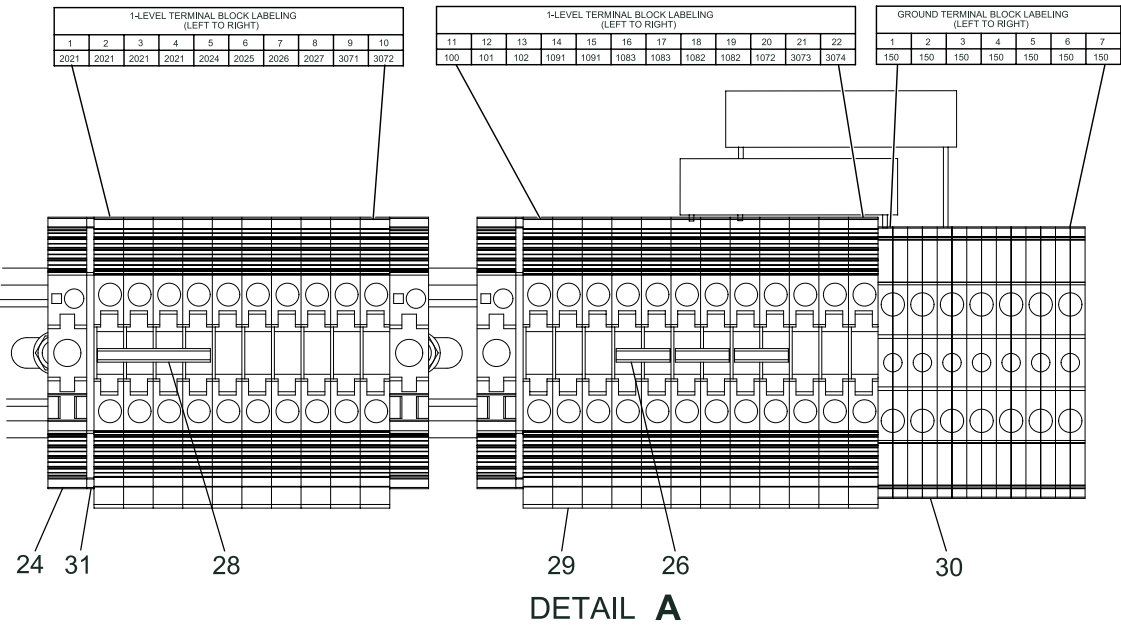
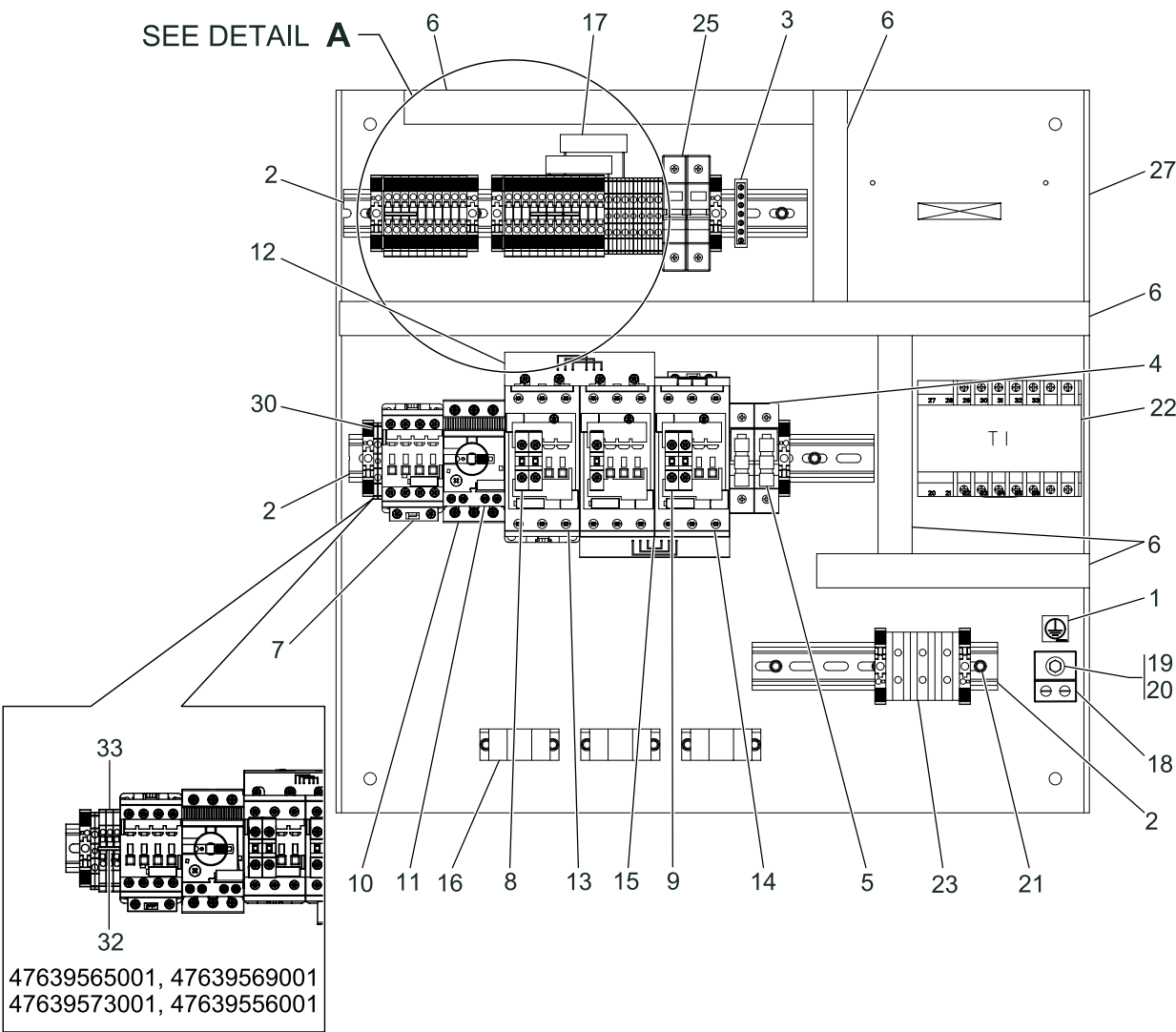


Table 8. Alternate Part Numbers

Application	Backpanel Assembly	Jumper, Terminal (#8) & (Qty.)	Starter, Manual Motor (#11) & (Qty.)	Kit, Connection (#13) & (Qty.)	Contactors (#14) & (Qty.)	Contactors (#15) & (Qty.)	Interlock, Mechanical (#16) & (Qty.)	Transformer, Control (#28) & (Qty.)	Relay, Thermal Overload (#35) & (Qty.)
11 kW, 230V - 50 Hz	47638789001	24471856 (1)	24482804 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	47521062001 (1)	47560212001 (1)
11 kW, 400V - 50 Hz	47638791001	24471856 (2)	24482788 (1)	24730186 (1)	24469702 (2)	24469694 (1)	47499662001 (1)	47499667001 (1)	47625458001 (1)
15 kW, 230V - 50 Hz	47638793001	24471856 (1)	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	47521062001 (1)	47607713001 (1)
15 kW, 400V - 50 Hz	47582895001	24471856 (2)	24482788 (1)	24730202 (1)	24469710 (2)	24469710 (1)	47499662001 (1)	47499667001 (1)	47625458001 (1)
18 kW, 400V - 50 Hz	47560211001	24471856 (2)	24482788 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	47499667001 (1)	47505664001 (1)
18.5 kW, 230V - 50 Hz	47638795001	24471856 (1)	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	47521062001 (1)	47592239001 (1)
22 kW, 230V - 50 Hz	47638797001	24471856 (1)	24482804 (1)	24738908 (1)	24738932 (2)	24738940 (1)	24738957 (1)	47521062001 (1)	47605995001 (1)
22 kW, 400V - 50 Hz	47625468001	24471856 (2)	24482788 (1)	24730202 (1)	24469736 (2)	24469710 (1)	47499662001 (1)	47499667001 (1)	47526212001 (1)

BACKPANEL, (FS- STAR DELTA XE-70) - EMEA



BACKPANEL, (FS- STAR DELTA XE-70) - EMEA

Item	Part No.	Description	Qty.
1	22477244	DECAL, GROUND SYMBOL	1
2	23464530	RAIL, DIN	A/R
3	23526478	BUS, GROUNDING	1
4	24141962	HOLDER, FUSE	1
5	24142036	FUSE	2
6	24225294	DUCT, WIRING	A/R
7	24469686	CONTACTOR	1
8	24474116	CONTACT, AUX	3
9	24474124	CONTACT, AUX	2
10	Table 9, p. 71	STARTER, MANUAL MOTOR	1
11	24482895	CONTACT, AUX	1
12	Table 9, p. 71	KIT, CONNECTION	1
13	Table 9, p. 71	CONTACTOR	2
14	Table 9, p. 71	CONTACTOR	1
15	Table 9, p. 71	INTERLOCK, MECHANICAL	1
16	Table 9, p. 71	SENSOR, CURRENT	3
17	39203443	SUPPRESSOR, ARC	2
18	49089089	LUG, GROUNDING	1
19	96705058	SCREW	1
20	96737564	NUT	1
21	96751722	SCREW	38
22	Table 9, p. 71	TRANSFORMER, CONTROL	1
23	47513032001	TERMINAL	3
24	47519190001	TERMINAL, DIN STOP	8
25	47527937001	BREAKER, CIRCUIT	2
26	47601730001	JUMPER, TERMINAL	3
27	47639559001	PANEL, BACK	1
28	47519185001	JUMPER, TERMINAL 4-POLE	1
29	47519187001	TERMINAL, WIRE	22
30	47519188001	TERMINAL, EARTH	8
31	47519189001	TERMINAL, END PLATE	2
32	Table 9, p. 71	JUMPER, TERMINAL 3-POLE	1
33	Table 9, p. 71	TERMINAL, WIRE 1-LEVEL	3
A/R	AS REQUIRED		

Note: 47639561001 is illustrated.

Item 32 and 33 are used only for 47639565001, 47639569001, 47639573001 and 47639556001.

BACKPANEL, (FS- STAR DELTA XE-70) - EMEA

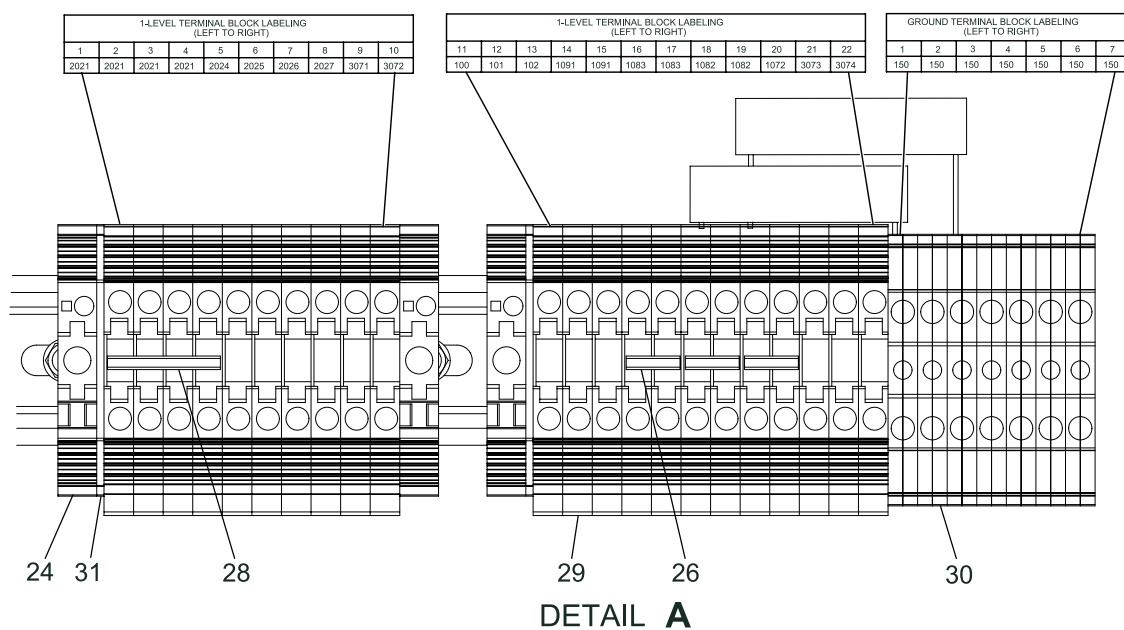
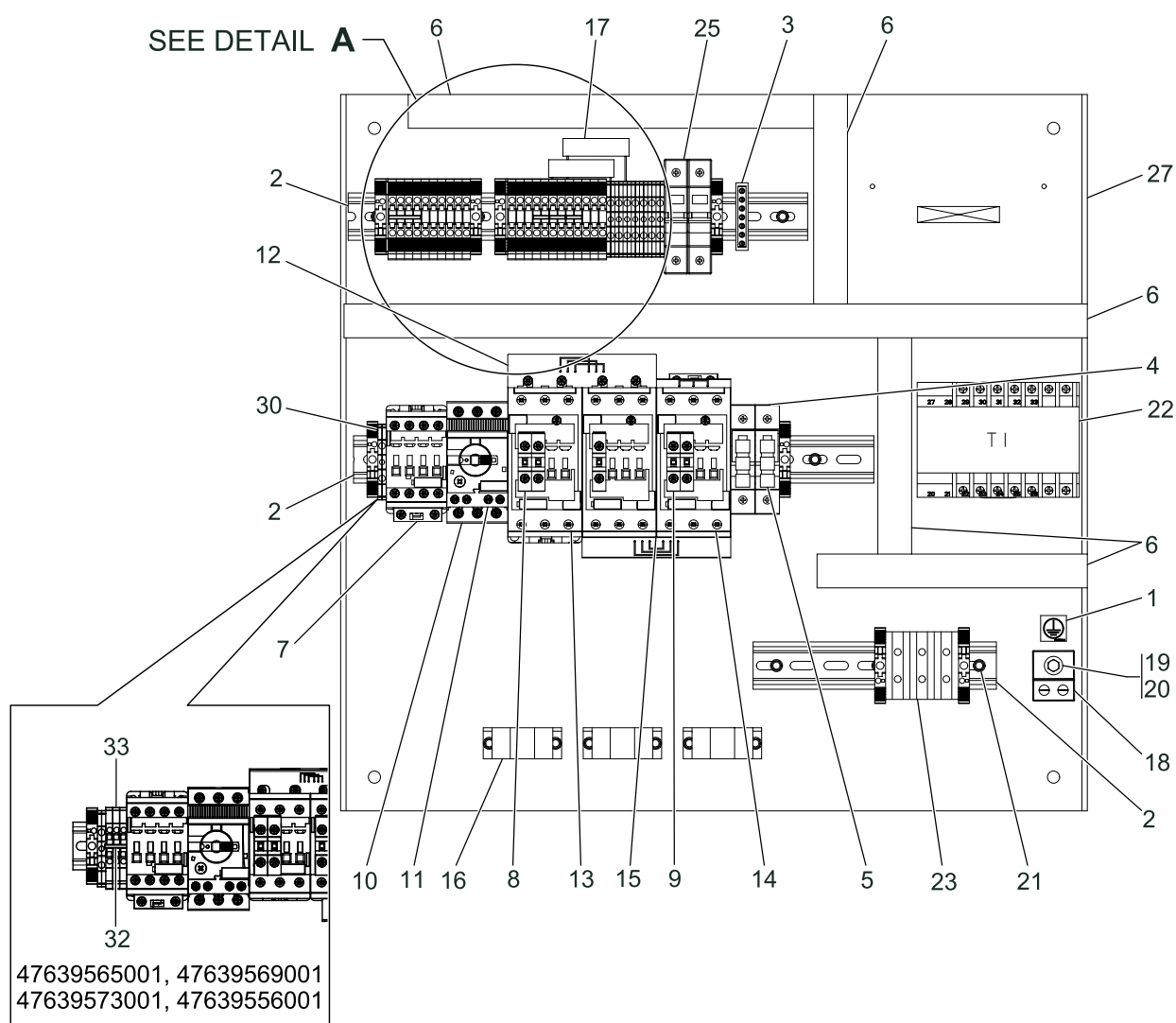
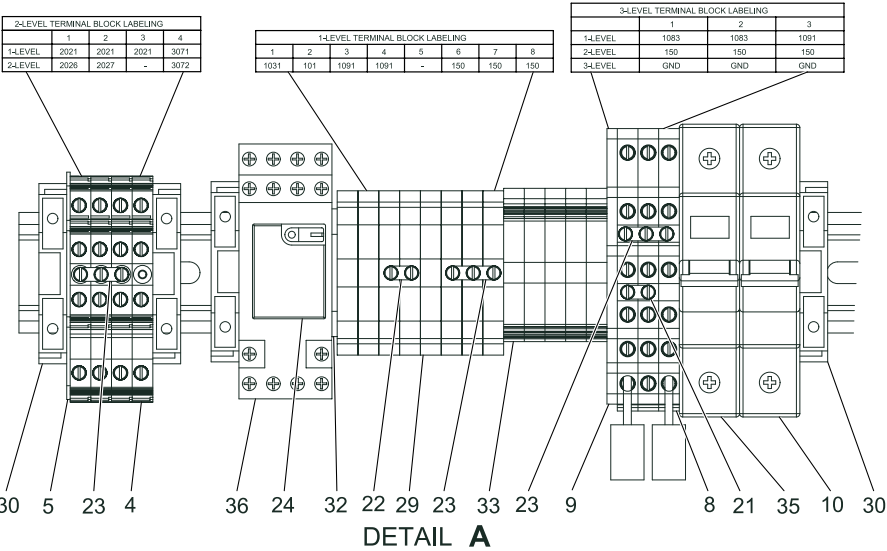
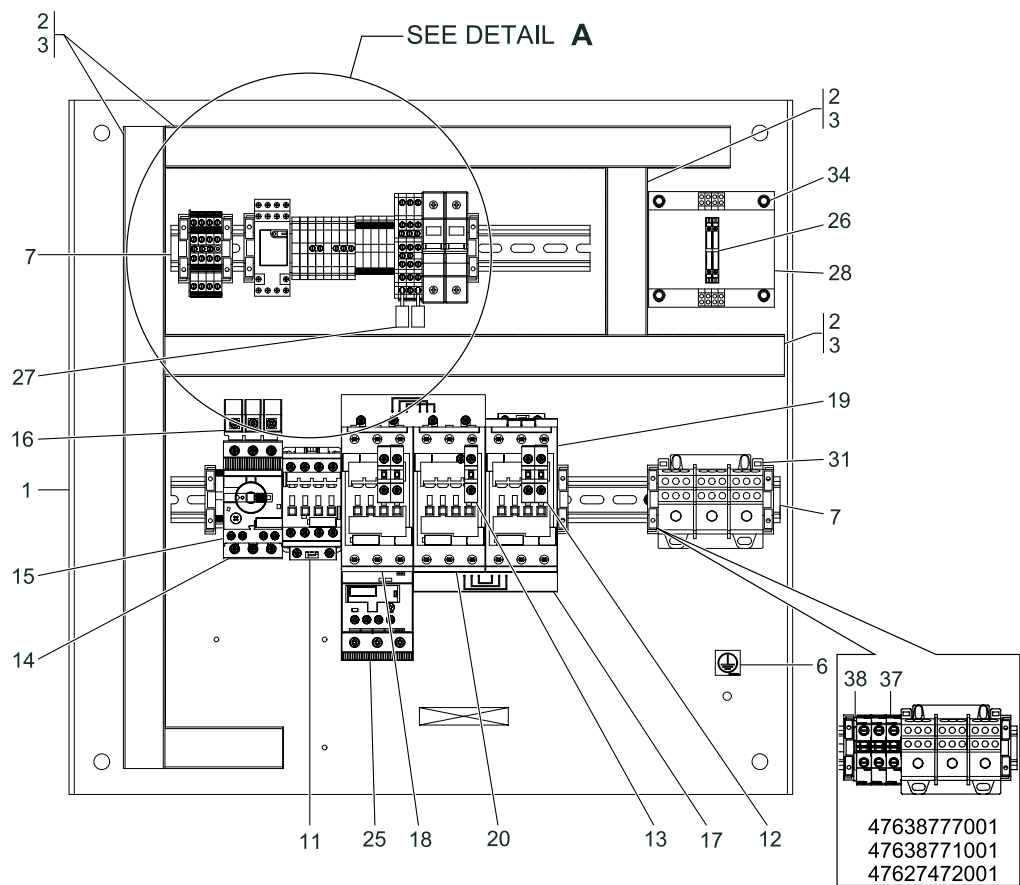


Table 9. Alternate Part Numbers

Application	Backpanel Assembly	Starter, Manual Motor (#10) & (Qty.)	Kit, Connection (#12) & (Qty.)	Contacto (#13) & (Qty.)	Contacto (#14) & (Qty.)	Interlock, Mechanical (#15) & (Qty.)	Sensor, Current (#16) & (Qty.)	Transformer, Control (#22) & (Qty.)	Jumper, Terminal 3-Pole (#32) & (Qty.)	Terminal, Wire 1-Level (#33) & (Qty.)
11 kW, 230V - 50 Hz	47639563001	24482804 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	24739559 (3)	47661310001 (1)	na	na
11 kW, 400V - 50 Hz	47639565001	24482788 (1)	24730186 (1)	24469702 (2)	24469694 (1)	47499662001 (1)	24741787 (3)	47513031001 (1)	24471856 (1)	93469625 (3)
15 kW, 230V - 50 Hz	47639567001	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	24739559 (3)	47661310001 (1)	na	na
15 kW, 400V - 50 Hz	47639569001	24482788 (1)	24730202 (1)	24469710 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	47513031001 (1)	24471856 (1)	93469625 (3)
18 kW, 400V - 50 Hz	47639573001	24482788 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	47513031001 (1)	24471856 (1)	93469625 (3)
18.5 kW, 230V - 50 Hz	47639571001	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	24739559 (3)	47661310001 (1)	na	na
22 kW, 230V - 50 Hz	47639561001	24482804 (1)	24738908 (1)	24738932 (2)	24738940 (1)	24738957 (1)	24739559 (3)	47661310001 (1)	na	na
22 kW, 400V - 50 Hz	47639556001	24482788 (1)	24730202 (1)	24469736 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	47513031001 (1)	24471856 (1)	93469625 (3)

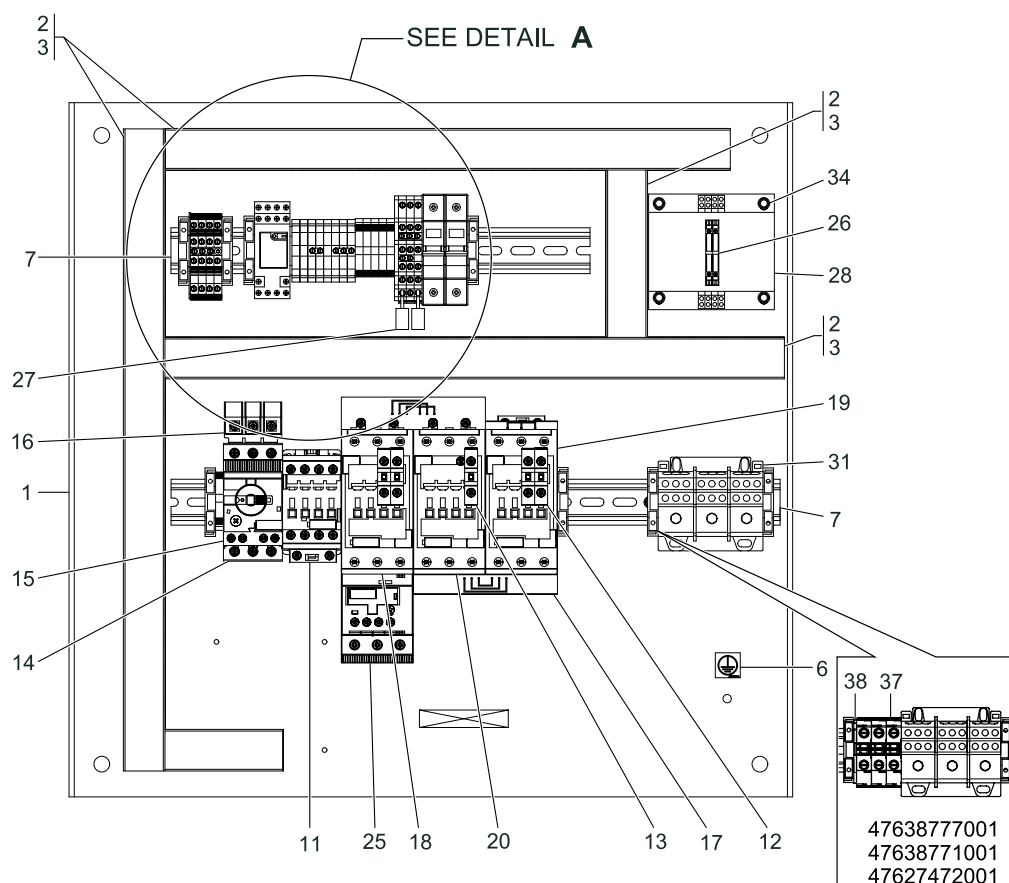
BACKPANEL, (FS- STAR DELTA XE-50) - NA



BACKPANEL, (FS- STAR DELTA XE-50) - NA

Item	Part No.	Description	Qty.
1	47593404001	PANEL, BACK	1
2	22101208	DUCT, WIRING	A/R
3	22101224	COVER, WIRING	A/R
4	22274831	BLOCK, TERMINAL, 2-LEVEL	4
5	22274864	END SECTION, TERMINAL	1
6	22477244	DECAL, GROUND SYMBOL	1
7	23464530	RAIL, DIN	A/R
8	23769409	BLOCK, TERMINAL	3
9	23769425	TERMINAL, END SECTION	1
10	23770514	BREAKER, CIRCUIT	1
11	24469686	CONTACTOR	1
12	24474116	CONTACT, AUX	3

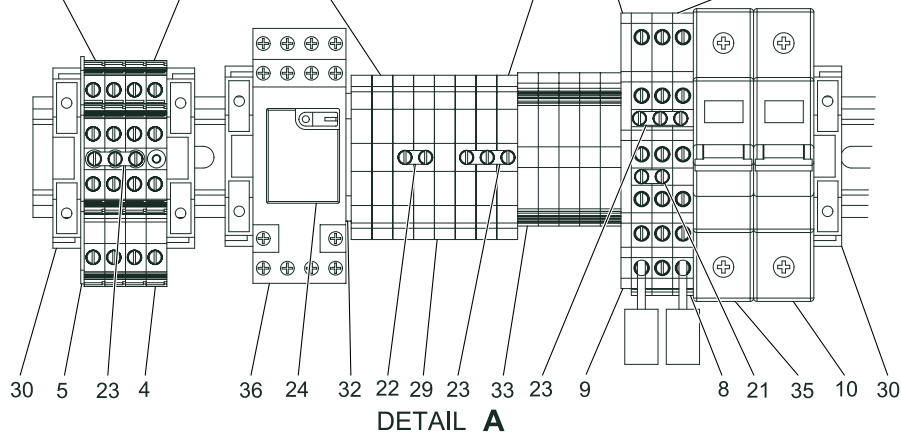
BACKPANEL, (FS- STAR DELTA XE-50) - NA



2-LEVEL TERMINAL BLOCK LABELING				
	1	2	3	4
1-LEVEL	2021	2021	2021	3071
2-LEVEL	2026	2027	-	3072

1-LEVEL TERMINAL BLOCK LABELING							
1	2	3	4	5	6	7	8
1031	101	1091	1091	-	150	150	150

3-LEVEL TERMINAL BLOCK LABELING			
	1	2	3
1-LEVEL	1093	1093	1091
2-LEVEL	150	150	150
3-LEVEL	GND	GND	GND



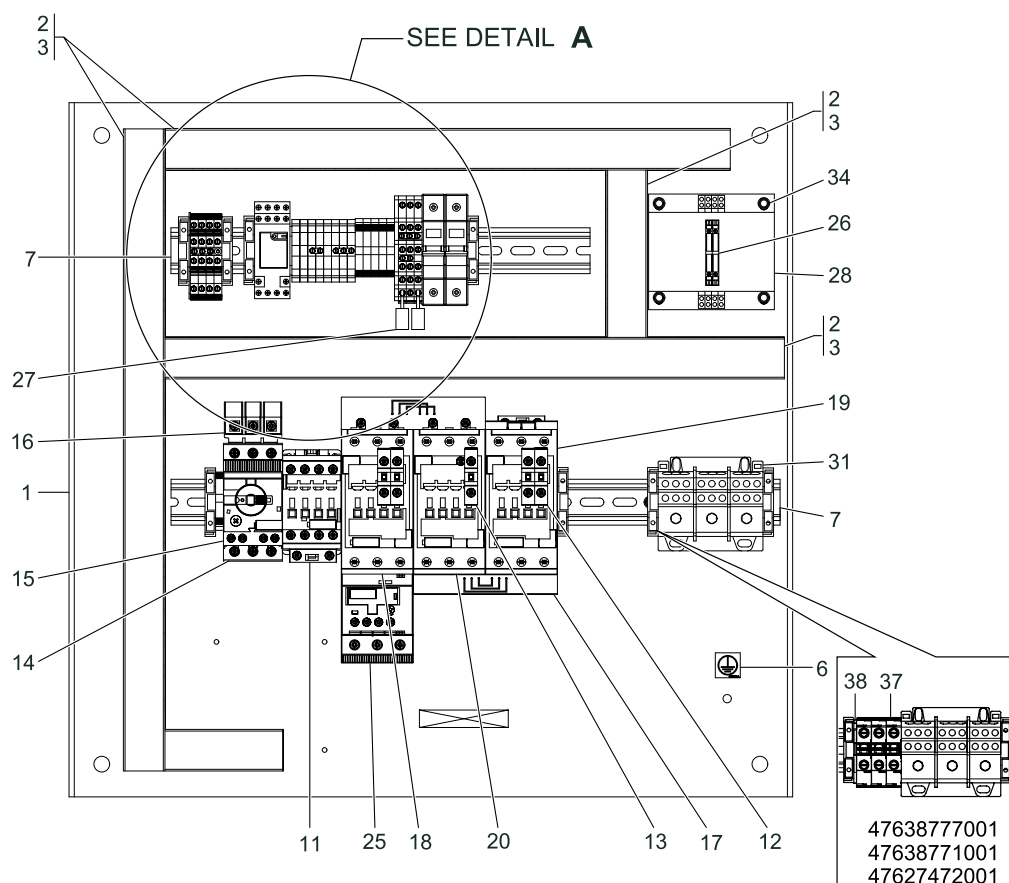
BACKPANEL, (FS- STAR DELTA XE-50) - NA

Item	Part No.	Description	Qty.
13	24474124	CONTACT, AUX	2
14	Table 10, p. 77	STARTER, MANUAL MOTOR	1
15	24482895	CONTACT, AUX	1
16	24482903	TERMINAL, 3 PHASE FEEDER	1
17	Table 10, p. 77	KIT, CONNECTION	1
18	Table 10, p. 77	CONTACTOR	2
19	Table 10, p. 77	CONTACTOR	1
20	Table 10, p. 77	INTERLOCK, MECHANICAL	1
21	24748659	JUMPER, TERMINAL	1
22	24888141	JUMPER BARS	1
23	24888158	TERMINAL JUMPER, 3-POLE	3
24	47582053001	RELAY	1
25	Table 10, p. 77	RELAY, THERMAL OVERLOAD	1
26	Table 10, p. 77	FUSE, TIME DELAY	2
27	39203443	SUPPRESSOR, ARC	2
28	47518259001	TRANSFORMER, CONTROL	1
29	39252903	BLOCK, TERMINAL	8
30	39252937	STOP, DIN	8
31	49126857	DISTRIBUTION TERMINAL	1
32	54612940	TERMINAL, END PLATE	1
33	93469633	TERMINAL, EARTH	6
34	96751722	SCREW	19
35	47499666001	BREAKER, CIRCUIT	1
36	47499669001	BASE, RELAY	1
37	Table 10, p. 77	TERMINAL, WIRE 1-LEVEL	3
38	Table 10, p. 77	END SECTION, TERMINAL	1
A/R	AS REQUIRED		

Note: 47638773001 is illustrated.

Item 37 and 38 are used only for 47627472001, 47638777001 and 47638771001.

BACKPANEL, (FS- STAR DELTA XE-50) - NA



2-LEVEL TERMINAL BLOCK LABELING				
	1	2	3	4
1-LEVEL	2021	2021	2021	3071
2-LEVEL	2026	2027	-	3072

1-LEVEL TERMINAL BLOCK LABELING							
1	2	3	4	5	6	7	8
1031	101	1091	1091	-	150	150	150

3-LEVEL TERMINAL BLOCK LABELING			
	1	2	3
1-LEVEL	1093	1093	1091
2-LEVEL	150	150	150
3-LEVEL	GND	GND	GND

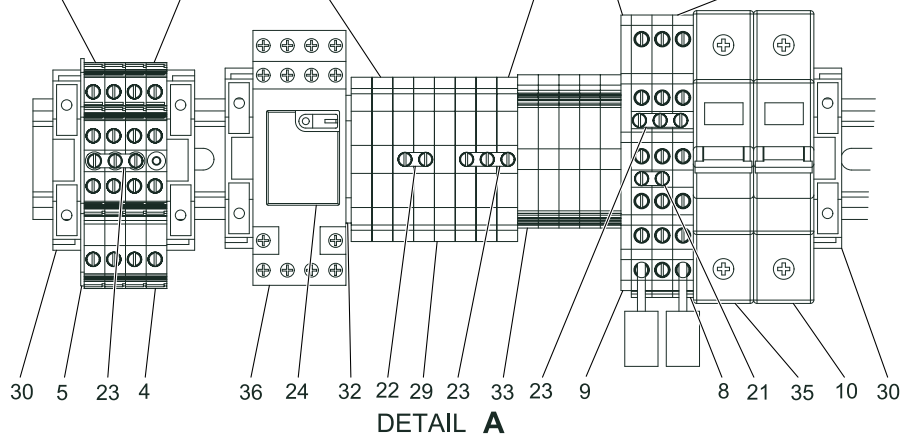
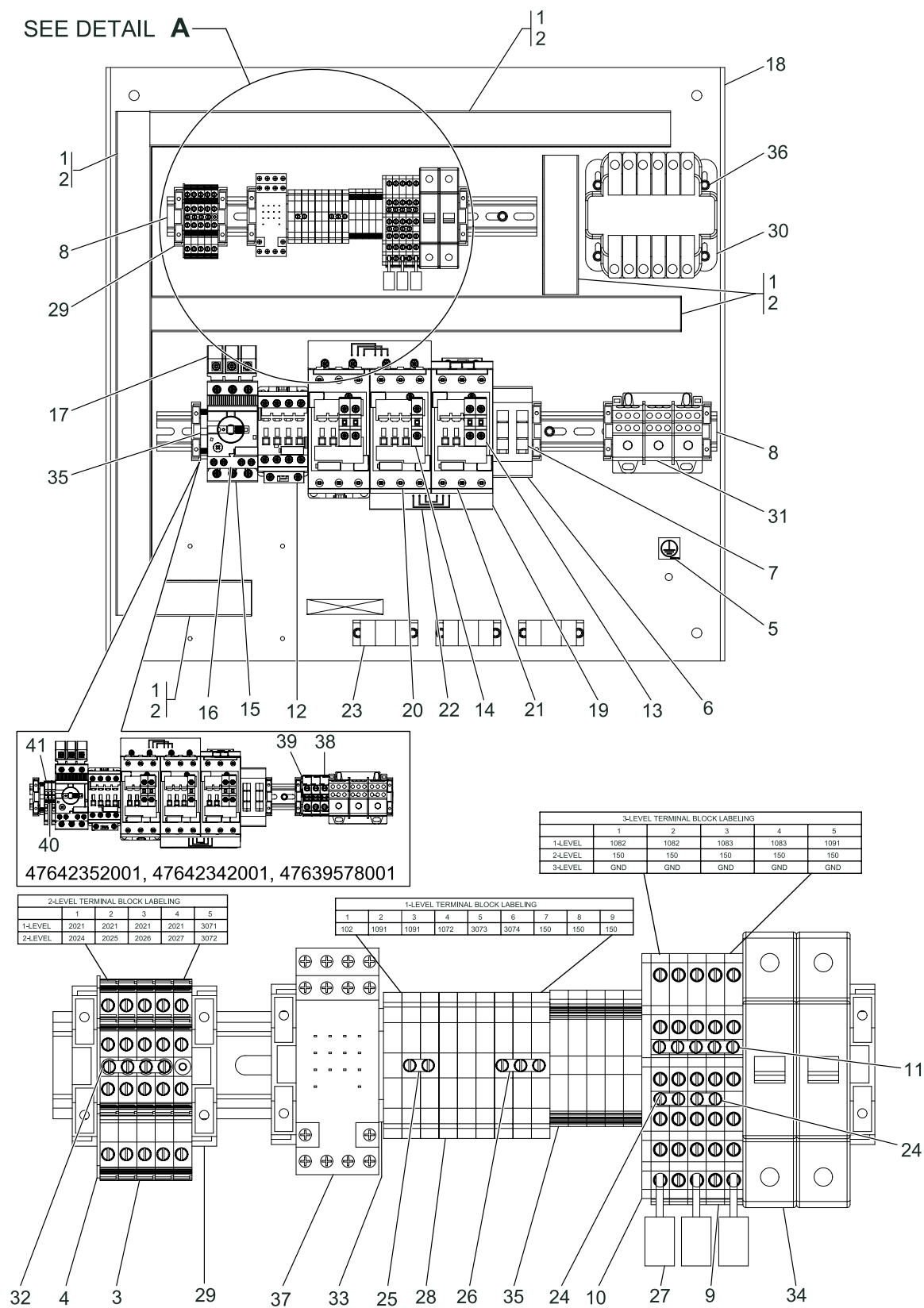


Table 10. Alternate Part Numbers

Application	Backpanel Assembly	Starter, Manual Motor (#14) & (Qty.)	Kit, Connection (#17) & (Qty.)	Contactor (#18) & (Qty.)	Contactor (#19) & (Qty.)	Interlock, Mechanical (#20) & (Qty.)	Relay, Thermal Overload (#25) & (Qty.)	Fuse, Time delay (#26) & (Qty.)	Terminal, Wire 1-Level (#37) & (Qty.)	End Section, Terminal Block (#38) & (Qty.)
15 hp, 200V - 60 Hz	47638767001	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	47638834001 (1)	39193289 (2)	na	na
15 hp, 230V - 60 Hz	47633697001	24482804 (1)	24738908 (1)	24738940 (2)	24738940 (1)	24738957 (1)	47592240001 (1)	39193289 (2)	na	na
15 hp, 380V - 60 Hz / 20 hp, 575V - 60 Hz	47638769001	24482770 (1)	24730202 (1)	24469710 (2)	24469710 (1)	47499662001 (1)	47625458001 (1)	39193289 (2)	na	na
15 hp, 460V - 60 Hz	47638771001	24482788 (1)	24730202 (1)	24469710 (2)	24469710 (1)	47499662001 (1)	47499684001 (1)	39193289 (2)	47633813001 (3)	47633814001 (1)
15 hp, 575V - 60 Hz	47633695001	24482770 (1)	24730186 (1)	24469702 (2)	na	47499662001 (1)	47638837001 (1)	39193289 (2)	na	na
20 hp, 200V - 60 Hz	47638773001	24482804 (1)	24738908 (1)	24738932 (2)	24738940 (1)	24738957 (1)	47592239001 (1)	39193289 (2)	na	na
20-25 hp, 230V - 60 Hz	47627470001	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	47607713001 (1)	39193289 (2)	na	na
20/25 hp, 460V - 60 Hz	47638777001	24482788 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	47505664001 (1)	39193289 (2)	47633813001 (3)	47633814001 (1)
25 hp, 200V - 60 Hz	47638779001	24482804 (1)	24738908 (1)	24738932 (2)	24738924 (1)	24738957 (1)	47638839001 (1)	39193289 (2)	na	na
25 hp, 575V - 60 Hz	47638781001	24482770 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	47505664001 (1)	39193289 (2)	na	na
30 hp, 200V - 60 Hz	47638783001	24482804 (1)	24874737 (1)	24872996 (2)	24872996 (1)	24738957 (1)	47594630001 (1)	39193289 (2)	na	na
30 hp, 230V - 60 Hz	47633693001	24482804 (1)	24738908 (1)	24738932 (2)	24738940 (1)	24738957 (1)	47592239001 (1)	39193289 (2)	na	na
30 hp, 460V - 60 Hz	47627472001	24482788 (1)	24738908 (1)	24738940 (2)	24738940 (1)	24738957 (1)	47592240001 (1)	81291601 (2)	47633813001 (3)	47633814001 (1)
30 hp, 575V - 60 Hz	47638787001	24482770 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	47582052001 (1)	39193289 (2)	na	na

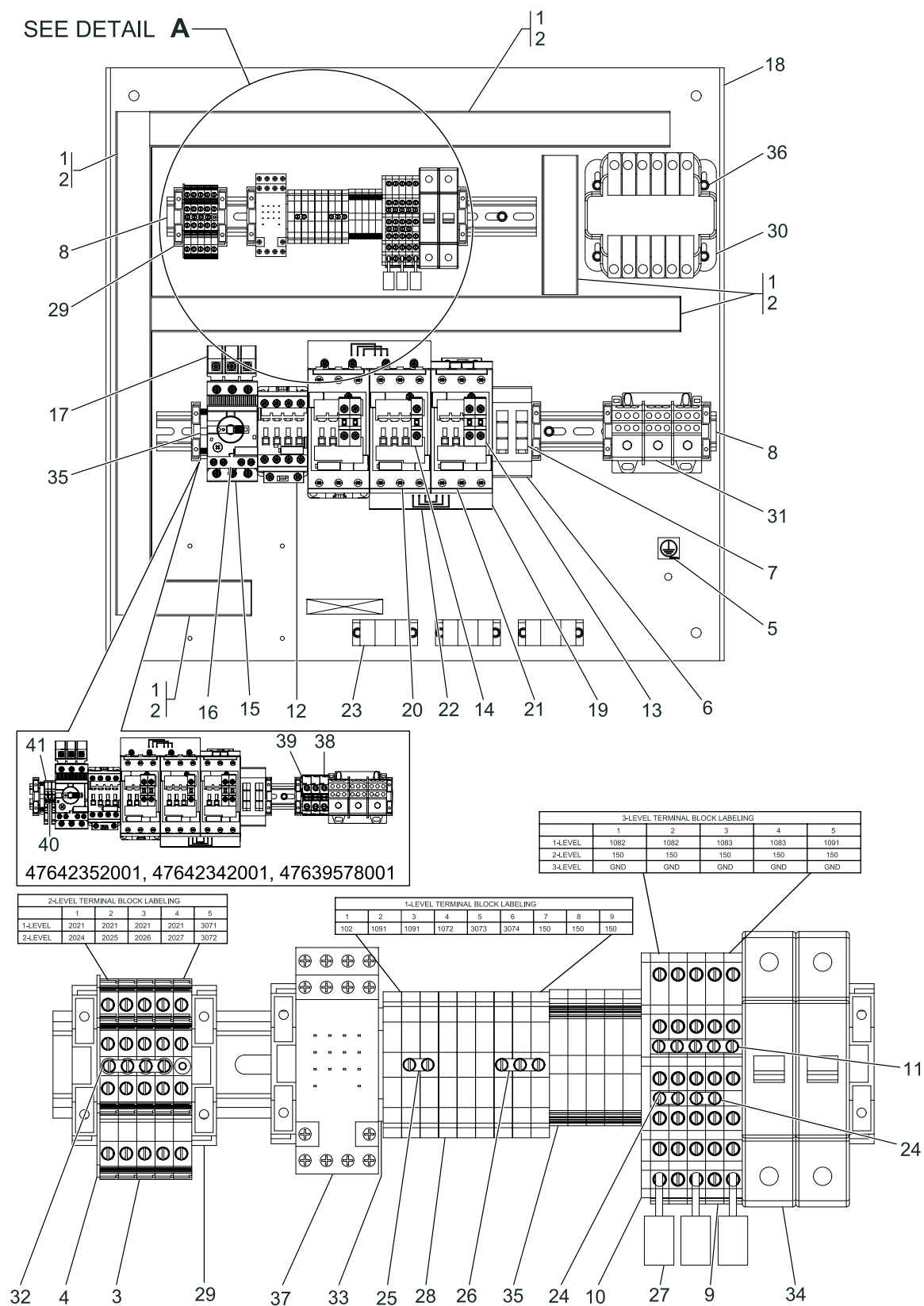
BACKPANEL, (FS- STAR DELTA XE-70) - NA



BACKPANEL, (FS- STAR DELTA XE-70) - NA

Item	Part No.	Description	Qty.
1	22101208	DUCT, WIRING	A/R
2	22101224	COVER, WIRING	A/R
3	22274831	BLOCK, TERMINAL, 2-LEVEL	5
4	22274864	END SECTION, TERMINAL	1
5	22477244	DECAL, GROUND SYMBOL	1
6	22505788	HOLDER, FUSE 2-POLE	1
7	22510481	FUSE, TIME DELAY	2
8	23464530	RAIL, DIN	A/R
9	23769409	BLOCK, TERMINAL 3-LEVEL	5
10	23769425	TERMINAL END SECTION	1
11	23769458	TERMINAL JUMPER, 5-POLE	1
12	24469686	CONTACTOR	1
13	24474116	CONTACT, AUX	3
14	24474124	CONTACT, AUX	2
15	Table 11, p. 83	STARTER, MANUAL MOTOR	1
16	24482895	CONTACT, AUX	1
17	24482903	TERMINAL, 3 PHASE	1
18	47639555001	PANEL, BACK	1
19	Table 11, p. 83	KIT, CONNECTION	1
20	Table 11, p. 83	CONTACTOR	2
21	Table 11, p. 83	CONTACTOR	1
22	Table 11, p. 83	INTERLOCK, MECHANICAL	1
23	Table 11, p. 83	SENSOR, CURRENT	3

BACKPANEL, (FS- STAR DELTA XE-70) - NA



BACKPANEL, (FS- STAR DELTA XE-70) - NA

Item	Part No.	Description	Qty.
24	24748659	JUMPER, TERMINAL, 2 POLE	2
25	24888141	JUMPER BARS	1
26	24888158	TERMINAL JUMPER, 3-POLE	1
27	39203443	SUPPRESSOR, ARC	3
28	39252903	BLOCK, TERMINAL	9
29	39252937	STOP, DIN RAIL	8
30	39475967	TRANSFORMER, CONTROL	1
31	49126857	DISTRIBUTION, TERMINAL	1
32	49171705	JUMPER, 4 POLE	1
33	54612940	TERMINAL, END PLATE	1
34	54689856	BREAKER, CIRCUIT	2
35	93469633	TERMINAL, EARTH	6
36	96751722	SCREW	28
37	47499669001	BASE, RELAY	1
38	Table 11, p. 83	TERMINAL, WIRE 1-LEVEL	3
39	Table 11, p. 83	END SECTION, TERMINAL	1
40	Table 11, p. 83	JUMPER, TERMINAL, 3-POLE	1
41	Table 11, p. 83	TERMINAL, WIRE 1-LEVEL	3
A/R	AS REQUIRED		

Note: 47642348001 is illustrated.

Items 38, 39,40 and 41 are used only for 47639578001, 47642342001 and 47642352001.

BACKPANEL, (FS- STAR DELTA XE-70) - NA

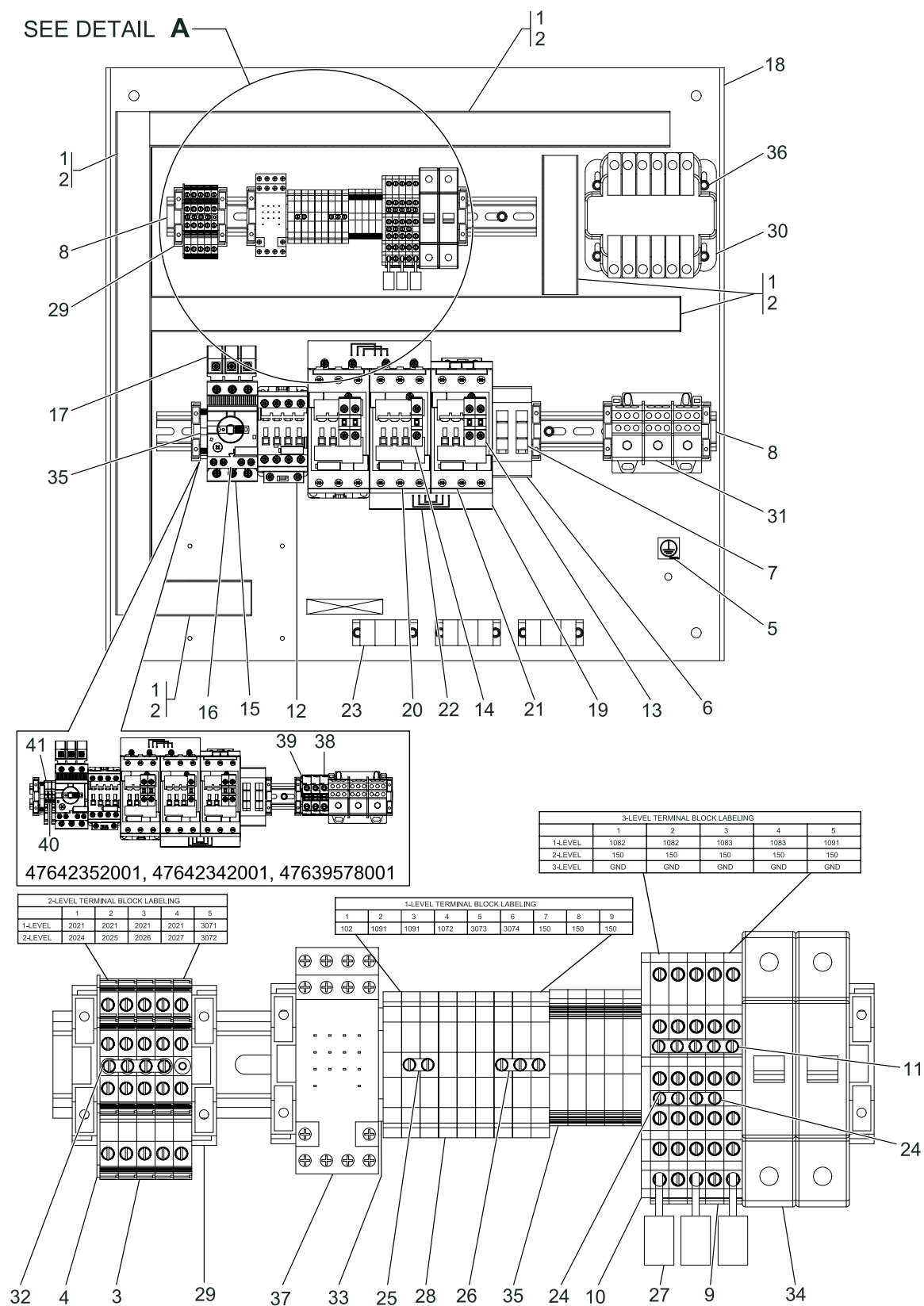
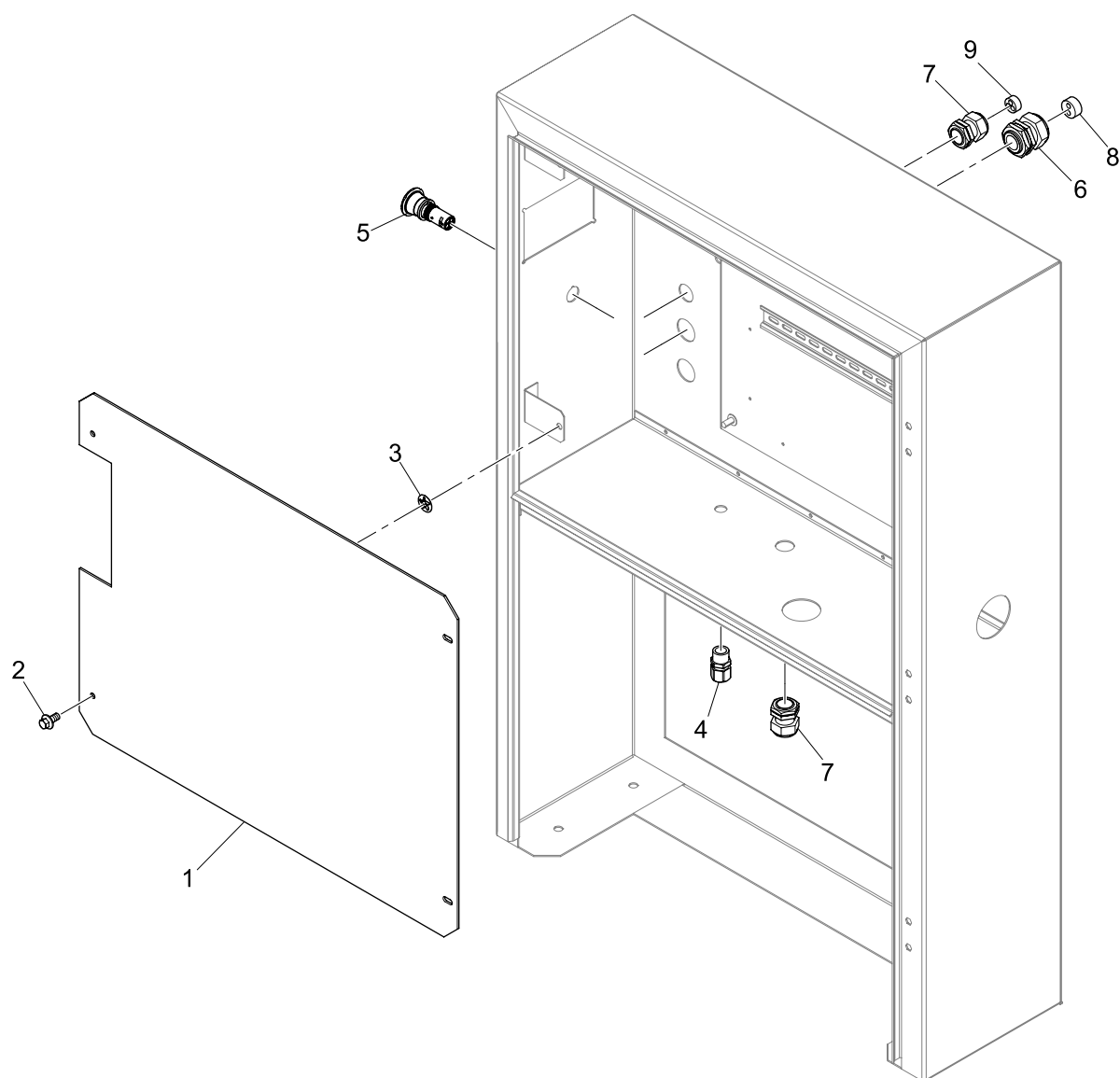


Table 11. Alternate Part Numbers

Application	Backpanel Assembly	Starter, Manual Motor (#15) & (Qty.)	Kit, Connection (#19) & (Qty.)	Contactor (#20) & (Qty.)	Contactor (#21) & (Qty.)	Interlock, Mechanical (#22) & (Qty.)	Sensor, Current (#23) & (Qty.)	Terminal, Wire 1-Level (#38) & (Qty.)	End Section, Terminal Block (#39) & (Qty.)	Jumper, Terminal Block (#40) & (Qty.)	Terminal, Wire 1-Level (#41) & (Qty.)
15 hp, 200V - 60 Hz	47642358001	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	24739559 (3)	na	na	na	na
15 hp, 230V - 60 Hz	47642356001	24482804 (1)	24738908 (1)	24738940 (2)	24738940 (1)	24738957 (1)	24741787 (3)	na	na	na	na
15 hp, 380V - 60 Hz / 20 hp, 575V - 60 Hz	47642354001	24482788 (1)	24730202 (1)	24469710 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	na	na	na	na
15 hp, 460V - 60 Hz	47642352001	24482788 (1)	24730202 (1)	24469710 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	47633813001 (3)	47633814001 (1)	23769441(1)	93469625(3)
15 hp, 575V - 60 Hz	47642350001	24482770 (1)	24730186 (1)	24469702 (2)	na	47499662001 (1)	24741787 (3)	na	na	na	na
20 hp, 200V - 60 Hz	47642348001	24482804 (1)	24738908 (1)	24738932 (2)	24738940 (1)	24738957 (1)	24739559 (3)	na	na	na	na
25 hp, 200V - 60 Hz	47642340001	24482804 (1)	24738908 (1)	24738932 (2)	24738924 (1)	24738957 (1)	24739559 (3)	na	na	na	na
20-25 hp, 230V - 60 Hz	47642346001	24482804 (1)	24738908 (1)	24738924 (2)	24738940 (1)	24738957 (1)	24739559 (3)	na	na	na	na
20/25 hp, 460V - 60 Hz	47642342001	24482788 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	47633813001 (3)	47633814001 (1)	23769441(1)	93469625(3)
25 hp, 575V - 60 Hz	47642338001	24482770 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	na	na	na	na
30 hp, 200V - 60 Hz	47642336001	24482804 (1)	24874737 (1)	24872996 (2)	24872996 (1)	24738957 (1)	24739559 (3)	na	na	na	na
30 hp, 230V - 60 Hz	47642334001	24482804 (1)	24738908 (1)	24738932 (2)	24738940 (1)	24738957 (1)	24739559 (3)	na	na	na	na
30 hp, 460V - 60 Hz	47639578001	24482788 (1)	24738908 (1)	24738940 (2)	24738940 (1)	24738957 (1)	24741787 (3)	47633813001 (3)	47633814001 (1)	23769441(1)	93469625(3)
30 hp, 575V - 60 Hz	47639576001	24482770 (1)	24730202 (1)	24469728 (2)	24469710 (1)	47499662001 (1)	24741787 (3)	na	na	na	na

OPTION - MISCELLANEOUS ASSEMBLY (FS)



OPTION - MISCELLANEOUS ASSEMBLY (FS)

Item	Part No.	Description	Qty.
1	47574608001	PANEL, CLEAR	1
2	96705058	SCREW	4
3	23523491	RETAINER	4
4	22224976	CONNECTOR	1
5	23990716	STOP, EMERGENCY	1
6	49053366	GLAND	1
7	22501720	GLAND	2
8	47616096001	BUSHING	1
9	47616095001	BUSHING	1

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Item	Part No.	Description	Qty.
1	96737549	SCREW	4
2	49014434	CONTROLLER, XE-70M(CONTROLLER VS)	1
	47543804001	CONTROLLER, XE-70M(CONTROLLER VS WITH ECO)	
3	92340447	WASHER, LOCK	4
4	96705165	WASHER	4
5	96742358	SCREW	4
6	96704218	SCREW	1
7	47594832001	CABLE, EARTH GROUND	1
8	24224032	CABLE, EARTH GROUND	1
9	Table 12, p. 87	STARTER BOX, VSD	1
10	Table 12, p. 87	BACK PANEL	1

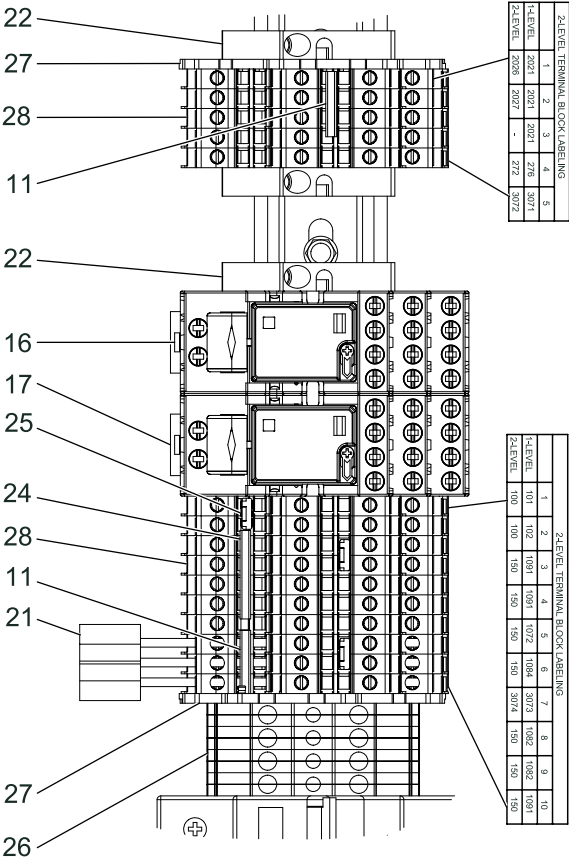
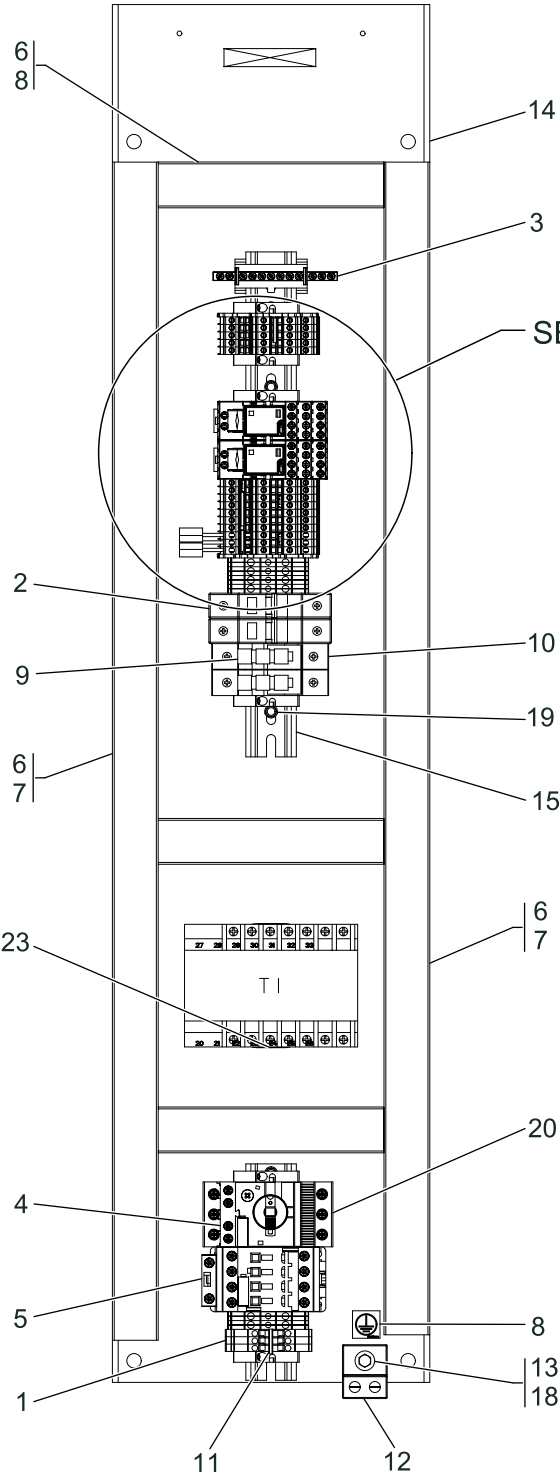
Table 12. Alternate Part Numbers

Application	Starter Box (#9)	Backpanel (#10)
15/18.5/22 kW, 230V, 50 Hz - EMEA	47560228001	47636317001
15/18/22 kW, 400V, 50 Hz - EMEA	47566228001	47561448001
15/18.5/22 kW, 200-230V, 60 Hz - NA	47560228001	47660117001
15/18.5/22 kW, 380-460V, 60 Hz - NA	47566228001	47595206001
15/18.5/22 kW, 575V, 60 Hz - NA	47560228001	47595665001

ARES13 : 15-22kW (Standard) VFD mapping							
S.No	Machine	Package Input Voltage	VFD Drive CCN	Description	Control Board CCN	Fan IR CCN	No. of fans required
1	15kW	230V @ 50Hz	47535919001	ASSY VFD 15 kW, 200V, DANFOSS, IRV302P15KT2E20H2, IP20, B4	47652125001	47666744001	1
2	15kW	380V-400V-415V @ 50Hz	49086283001	ASSY VFD 18.5 kW, 400V, DANFOSS, IRV302P18K5T5E20H2, IP20, B4	47652125001	47665225001	1
3	18.5kW	230V @ 50Hz	49086341001	ASSY VFD 18.5 kW, 200V, DANFOSS, IRV302P18K5T2E20H2, IP20, C3	47652125001	47665224001	2
4	18.5kW	380V-400V-415V @ 50Hz	49086366001	ASSY VFD 22 kW, 400V, DANFOSS, IRV302P22KT5E20H2, IP20, B4	47652125001	47665224001	1
5	22kW	230V @ 50Hz	49086291001	ASSY VFD 22 kW, 200V, DANFOSS, IRV302P22KT2E20H2, IP20, C3	47652125001	47665224001	2
6	22kW	380V-400V-415V @ 50Hz	49086366001	ASSY VFD 22 kW, 400V, DANFOSS, IRV302P22KT5E20H2, IP20, B4	47652125001	47665224001	1
7	20hp	208 V @ 60Hz	49086341001	ASSY VFD 18.5 kW, 200V, DANFOSS, IRV302P18K5T2E20H2, IP20, C3	47652125001	47665224001	2
8	20hp	230 @ 60Hz	47535919001	ASSY VFD 15 kW, 200V, DANFOSS, IRV302P15KT2E20H2, IP20, B4	47652125001	47666744001	1
9	20hp	575V @ 60Hz	49086358001	ASSY VFD 18.5 kW, 575V, DANFOSS, IRV302P18K5T6E20H2, IP20, B4	47652125001	47665225001	1
10	20hp	460 V @ 60Hz	49086283001	ASSY VFD 18.5 kW, 400V, DANFOSS, IRV302P18K5T5E20H2, IP20, B4	47652125001	47665225001	1
11	25hp	460 V @ 60Hz	49086283001	ASSY VFD 18.5 kW, 400V, DANFOSS, IRV302P18K5T5E20H2, IP20, B4	47652125001	47665225001	1
12	25hp	208 V @ 60Hz	49086291001	ASSY VFD 22 kW, 200V, DANFOSS, IRV302P22KT2E20H2, IP20, C3	47652125001	47665224001	2
13	25hp	230 V @ 60Hz	49086341001	ASSY VFD 18.5 kW, 200V, DANFOSS, IRV302P18K5T2E20H2, IP20, C3	47652125001	47665224001	2
14	25hp	575V @ 60Hz	49086333001	ASSY VFD 22 kW, 575V, DANFOSS, IRV302P22KT6E20H2, IP20, B4	47652125001	47665225001	1
15	30HP	208 V @ 60Hz	49086291001	ASSY VFD 22 kW, 200V, DANFOSS, IRV302P22KT2E20H2, IP20, C3	47652125001	47665224001	2
16	30hp	230 V @ 60Hz	49086291001	ASSY VFD 22 kW, 200V, DANFOSS, IRV302P22KT2E20H2, IP20, C3	47652125001	47665224001	2

ARES13 : 15-22kW (Standard) VFD mapping							
S.No	Machine	Package Input Voltage	VFD Drive CCN	Description	Control Board CCN	Fan IR CCN	No. of fans required
17	30hp	460 V @ 60Hz	49086366001	ASSY VFD 22 kW, 400V, DANFOSS, IRV302P22KT5E20H2, IP20, B4	47652125001	47665224001	1
18	30hp	575V @ 60Hz	49211055001	ASSY VFD 30 kW, 575V, DANFOSS, IRV302P22KT6E20H2, IP20, B4	47652125001	47665224001	1

BACKPANEL, (VSD) - EMEA



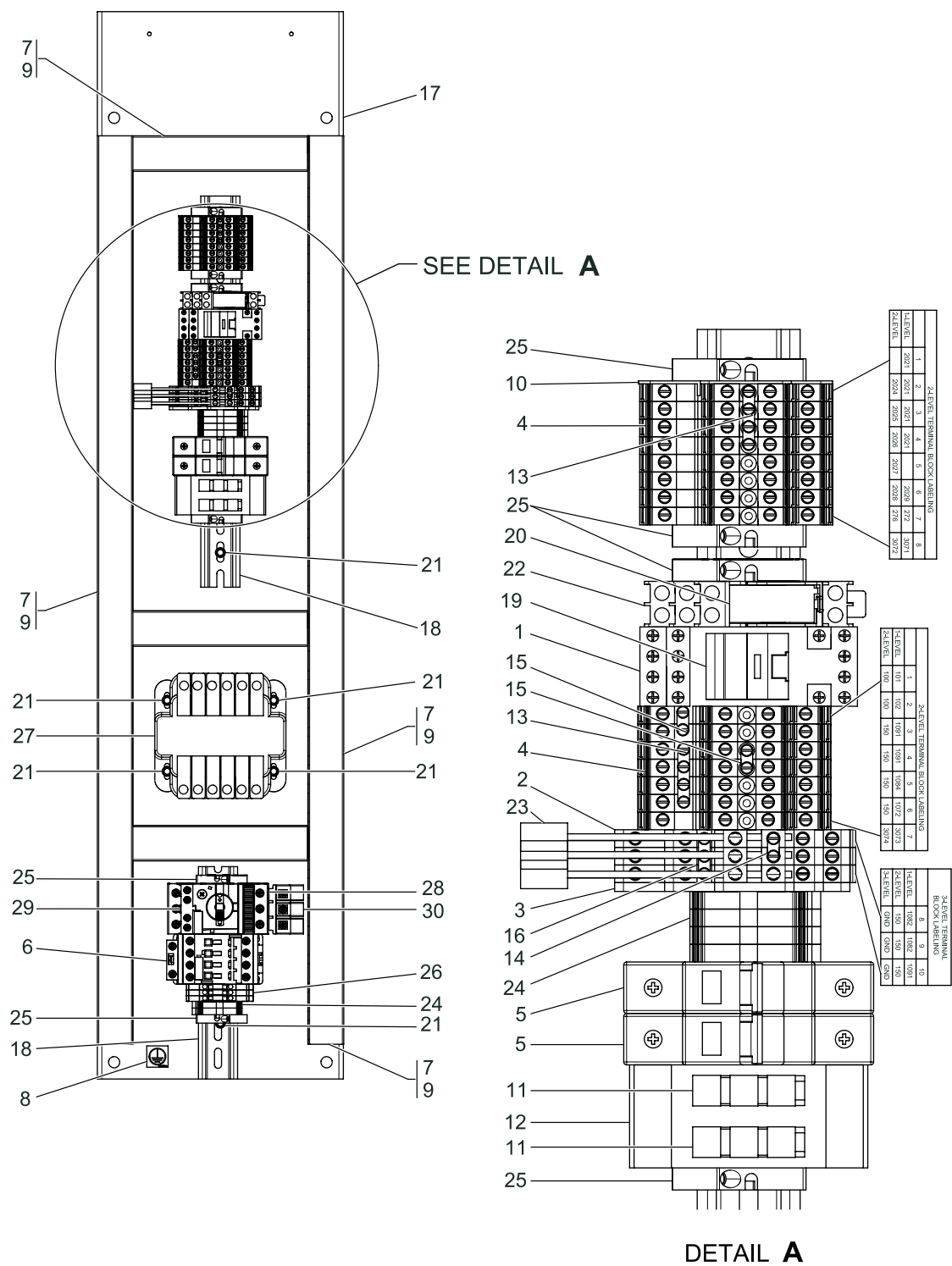
DETAIL A

BACKPANEL, (VSD) - EMEA

Item	Part No.	Description	Qty.
1	93469625	TERMINAL, WIRE 1-LEVEL(15/18/22 kW, 400V - 50 Hz)	3
	na	TERMINAL, WIRE 1-LEVEL(15/18/22kW, 230V - 50 Hz)	
2	47527937001	BREAKER, CIRCUIT	2
3	47541022001	BUS, GROUNDING	1
4	24482895	CONTACT, AUX	1
5	47574367001	CONTACTOR	1
6	22101224	COVER, WIRING	A/R
7	22101208	DUCT, WIRING	A/R
8	22477244	DECAL, GROUND SYMBOL	1
9	24142036	FUSE	2
10	24141962	HOLDER, FUSE 2-POLE	1
11	24471856	JUMPER, TERMINAL 3-POLE	3
12	49089089	LUG, GROUNDING	1
13	96737564	NUT	1
14	47594163001	PANEL, BACK	1
15	23464530	RAIL, DIN	A/R
16	47513406001	RELAY	1
17	47513407001	RELAY	1
18	96705058	SCREW	1
19	96751722	SCREW	27
20	24482788 (1)	STARTER, MANUAL MOTOR(15/18/22 kW, 400V - 50 Hz)	1
	24482804 (1)	STARTER, MANUAL MOTOR(15/18/22kW, 230V - 50 Hz)	1
21	39203443	SUPPRESSOR, ARC	3
22	89205397	TERMINAL, END STOP	6
23	47513031001	TRANSFORMER, CONTROL(15/18/22 kW, 400V - 50 Hz)	1
	47661310001	TRANSFORMER, CONTROL(15/18/22kW, 230V - 50 Hz)	1
24	47519185001	JUMPER, TERMINAL 4-POLE	1
25	24471872	JUMPER, TERMINAL 2-POLE	3
26	47519188001	TERMINAL, EARTH	6
27	24471849	TERMINAL, END PLATE	2
28	24471831	TERMINAL, WIRE 2-LEVEL	15
A/R	AS REQUIRED		

Note: 47561448001 is illustrated.

BACKPANEL, (VSD) - NA



Item	Part No.	Description	Qty.
1	47499669001	BASE, RELAY	1
2	23769409	BLOCK, TERMINAL	3
3	23769425	TERMINAL END SECTION	1
4	22274831	BLOCK, TERMINAL, 2-LEVEL	15
5	47527937001	BREAKER, CIRCUIT	2
6	24469686	CONTACTOR, AUX	1
7	22101224	COVER, WIRING	A/R
8	22477244	DECAL, GROUND SYMBOL	1
9	22101208	DUCT, WIRING	A/R
10	22274864	END SECTION, TERMINAL	1
11	85036812	FUSE	2
12	22505788	HOLDER, FUSE 2-POLE	1
13	49171705	JUMPER, 4 POLE	2
14	24748659	JUMPER, TERMINAL	1
15	47644604001	JUMPER, TERMINAL, 2-POLE	2
16	23769441	JUMPER, TERMINAL, 3-POLE	1
17	47595476001	PANEL, BACK	1
18	23464530	RAIL, DIN	A/R
19	47499674001	RELAY	1
20	24521965	RELAY, PLUG-IN	1
21	96751722	SCREW	24
22	24329161	SOCKET, RELAY	1
23	39203443	SUPPRESSOR, ARC	3
24	93469633	TERMINAL, EARTH	6
25	89205397	TERMINAL, END STOP	6
26	93469625	TERMINAL, WIRE 1-LEVEL	3
27	39475967	TRANSFORMER, CONTROL	1
28	Table 13, p. 93	STARTER, MANUAL MOTOR	1
29	Table 13, p. 93	CONTACT, AUX	1
30	Table 13, p. 93	TERMINAL, 3 PHASE FEEDER	1

A/R	AS REQUIRED
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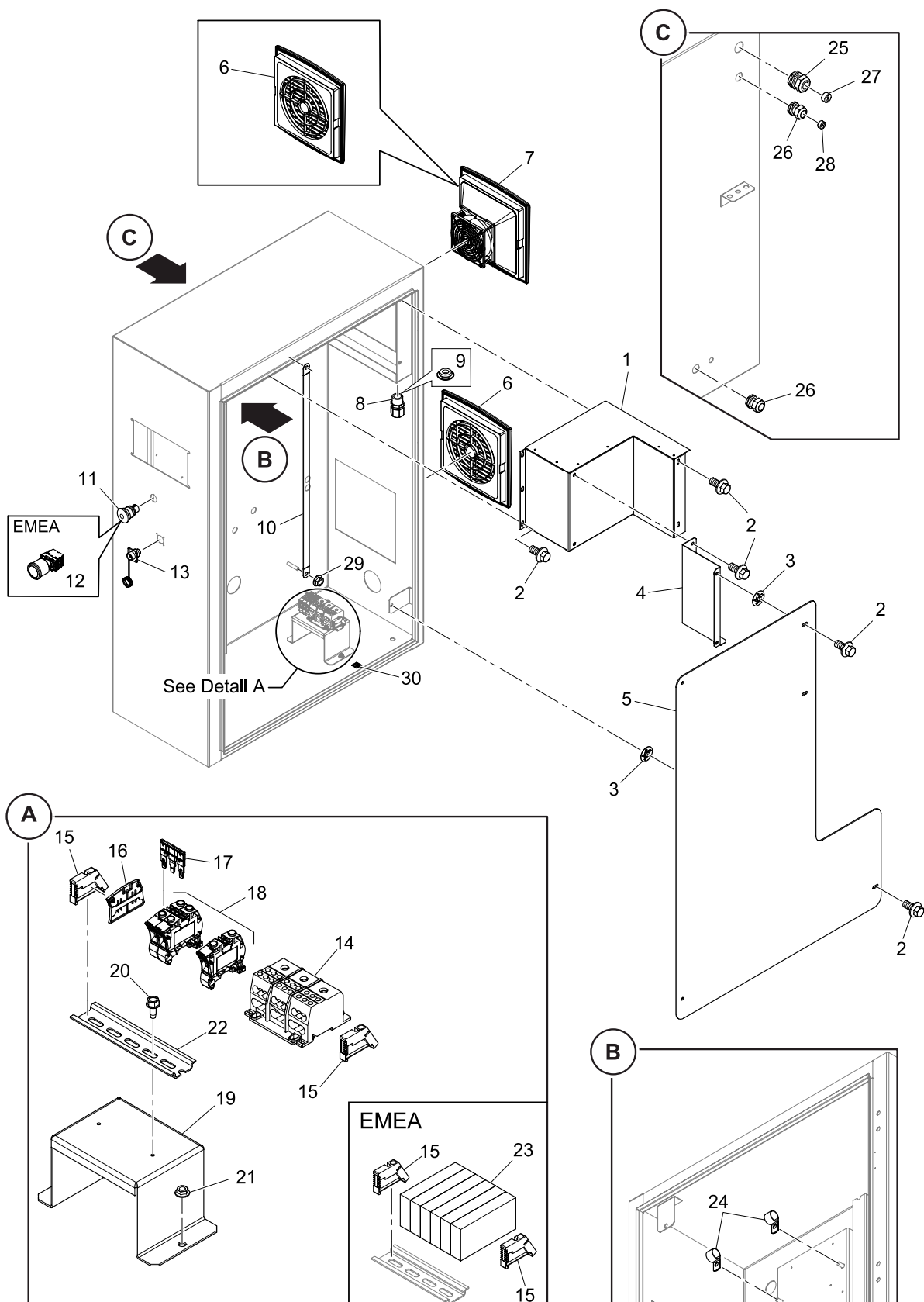
Table 13. Alternate Part Numbers

Application	Backpanel Assembly	Starter, Manual Motor (#28) & (Qty.)	Contact, Aux (#29) & (Qty.)	Terminal (#30) & (Qty.)
15/18.5/22 kW, 200-230V, 60 Hz	47660117001	24491706 (1)	na	na
15/18.5/22 kW, 380-460V, 60 Hz	47595206001	24482788 (1)	24482895 (1)	24482903 (1)
15/18.5/22 kW, 575V, 60 Hz	47595665001	24482770 (1)	24482895 (1)	24482903 (1)

Note: 47595665001 is illustrated.

Item 29 and 30 are used only for 47595206001 and 47595665001.

OPTION - MISCELLANEOUS ASSEMBLY (VSD)



OPTION - MISCELLANEOUS ASSEMBLY (VSD)

Item	Part No.	Description	Qty.
1	Table 14, p. 96	DUCT, EXHAUST	1
2	96705058	SCREW	12
3	23523491	RETAINER	5
4	Table 14, p. 96	STAND, CLEAR PANEL	1
5	Table 14, p. 96	PANEL, CLEAR	1
6	Table 14, p. 96	GRILL FILTER BLACK	A/R
7	Table 14, p. 96	GRILL WITH FAN	1
8	Table 14, p. 96	CONNECTOR	1
9	Table 14, p. 96	PLUG	1
10	23603434	STRAP GROUND	1
11	49014608	OPERATOR, CONTACT HOLDER	1
12	47499689001	SWITCH, EMERGENCY STOP (EMEA ONLY)	1
13	47517230001	CABLE, COMMUNICATION SERVICE TOOL	1
14	49126857	BLOCK, DISTRIBUTION TERMINAL (USA)	1
15	89205397	END STOP, ENTRELEC	2
16	47633814001	TERMINAL, END PLATE (USA)	1
17	47633815001	JUMPER (USA)	1
18	47633813001	TERMINAL (USA)	3
19	47557338001	BRACKET	1
20	96751722	SCREW	2
21	96737564	NUT	2
22	23464530	RAIL	A/R
23	24167868	TERMINAL, ELEKTRA (EMEA ONLY)	3
24	35225085	CLAMP TUBE	2
25	49053366	GLAND	1
26	22501720	GLAND	2
27	47616096001	BUSHING	1
28	47616095001	BUSHING	1
29	96704416	NUT	1
30	22477244	DECAL GROUND SYMBOL	1
**	32061509	WIRE (WHITE), 208V, 230V / 60Hz	90 In
**	32065997	WIRE (RED), 208V, 230V / 60Hz	90 In
**	32115552	WIRE (GREEN), 208V, 230V / 60Hz	90 In
**	23553811	WIRE (GREEN-YELLOW), 230V / 50Hz	90 In
**	24167017	WIRE (BLACK), 230V / 50Hz	90 In
**	24167645	WIRE (RED), 230V / 50Hz	90 In
**	NOT ILLUSTRATED		
A/R	AS REQUIRED		

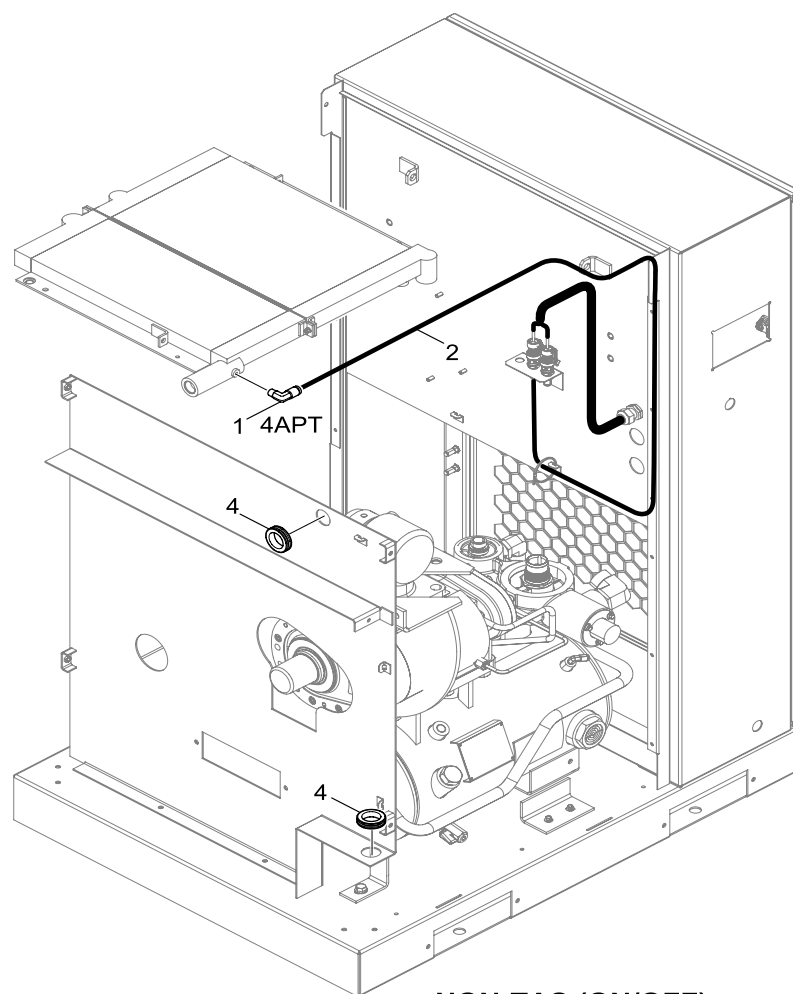
Table 14. Alternate Part Numbers

Machine	Application		Duct (#1)	Stand (#4)	Panel (#5)	Grill, Filter Black(#6) & (Qty.)	Grill, With Fan(#7) & (Qty.)	Connector (#8) & (Qty.)	Plug (#9) & (Qty.)
	Package Input Voltage	VFD Drive CCN							
15 kW	230V @ 50 Hz	47535919001	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
18.5 kW	230V @ 50 Hz	49086341	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
15 kW	400V (380-415) @ 50 Hz	49086283	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
22 kW	230V @ 50 Hz	49086291	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
18.5 kW	400V (380-415) @ 50 Hz	49086366	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
22 kW	400V (380-415) @ 50 Hz	49086366	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
20 hp	230 @ 60 Hz	47535919001	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
20 hp	208 V @ 60 Hz	49086341	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
25 hp	230 V @ 60 Hz	49086341	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
20 hp	460 V @ 60 Hz	49086283	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
25 hp	460 V @ 60 Hz	49086283	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
20 hp	575V @ 60 Hz	49086358	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
25 hp	208 V @ 60 Hz	49086291	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
30 hp	208 V @ 60 Hz	49086291	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
30 hp	230 V @ 60 Hz	49086291	47597996001	47597997001	47591093001	47512062001 (1)	47669504001 (1)	22224976 (1)	-
30 hp	460 V @ 60 Hz	49086366	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)

Table 14. Alternate Part Numbers (continued)

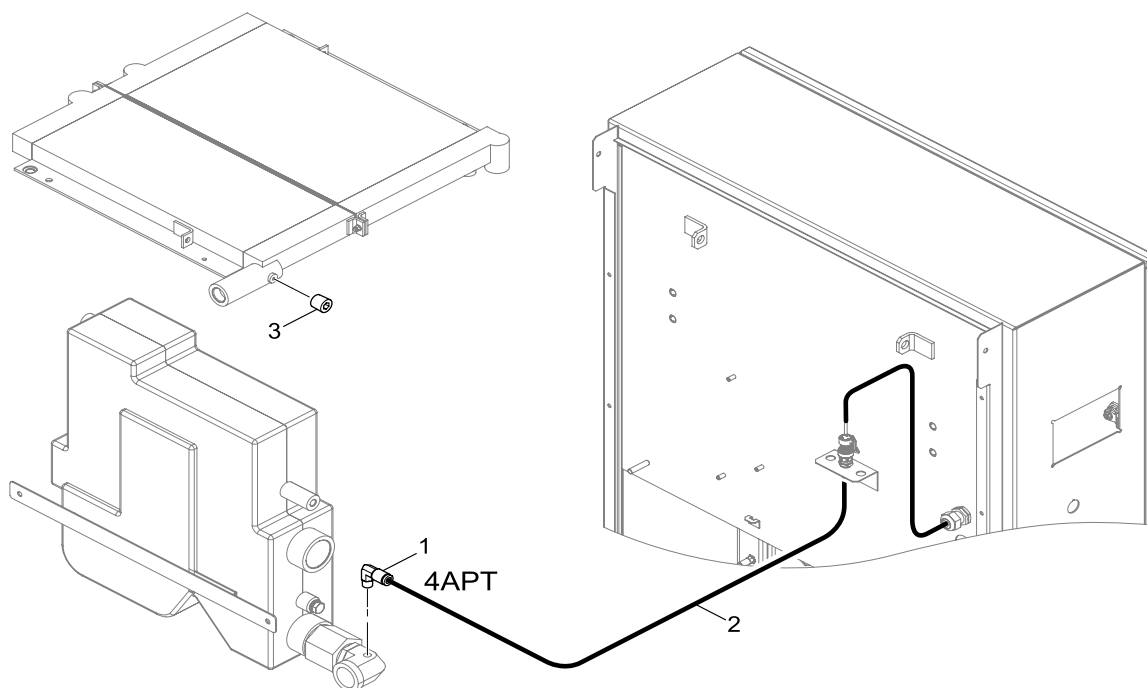
Machine	Application		Duct (#1)	Stand (#4)	Panel (#5)	Grill, Filter Black (#6) & (Qty.)	Grill, With Fan (#7) & (Qty.)	Connector (#8) & (Qty.)	Plug (#9) & (Qty.)
	Package Input Voltage	VFD Drive CCN							
25 hp	575V @ 60 Hz	49086333	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)
30 hp	575V @ 60 Hz	49211055	47600050001	47600052001	47561313001	47512062001 (2)	-	-	39140785 (1)

CONTROLS (FS) - STANDARD (XE-50)



NON-TAS (ON/OFF)

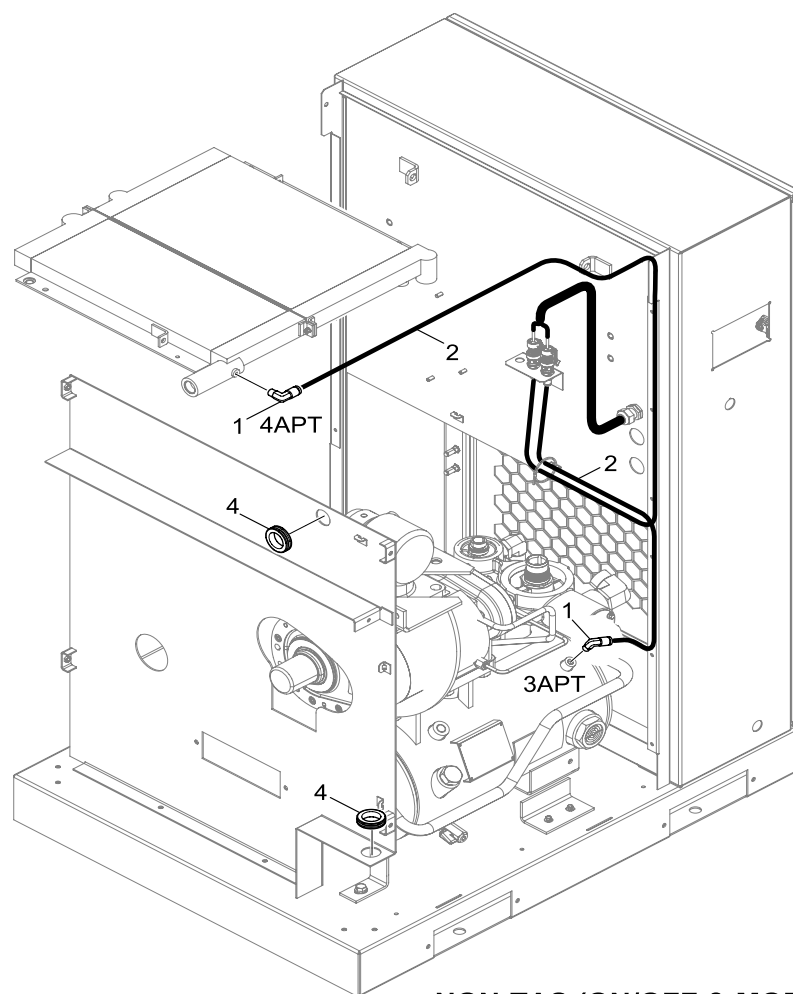
TAS (ON/OFF)



CONTROLS (FS) - STANDARD (XE-50)

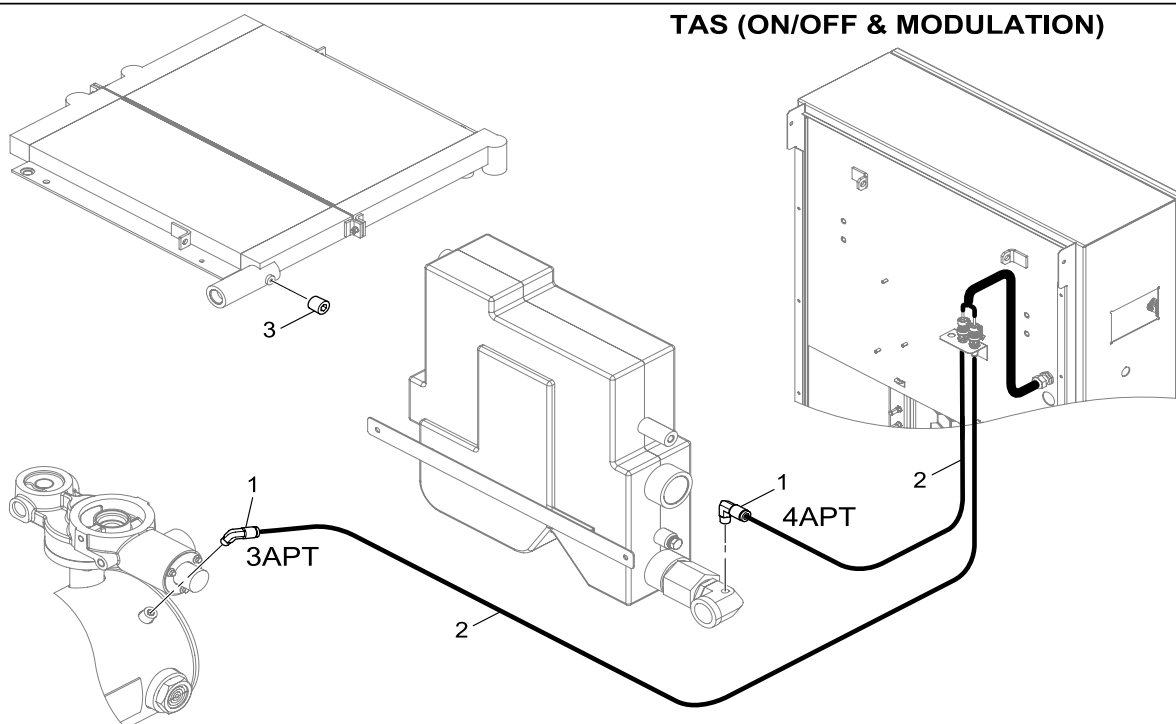
Item	Part No.	Description	Qty.
1	39155577	ELBOW	1
2	39124813	TUBE	A/R
3	95837233	PLUG, SOCKET (TAS)	1
4	54741608	GROMMET, INSULATION	2
A/R	AS REQUIRED		

CONTROLS (FS) - STANDARD (XE-70)



NON-TAS (ON/OFF & MODULATION)

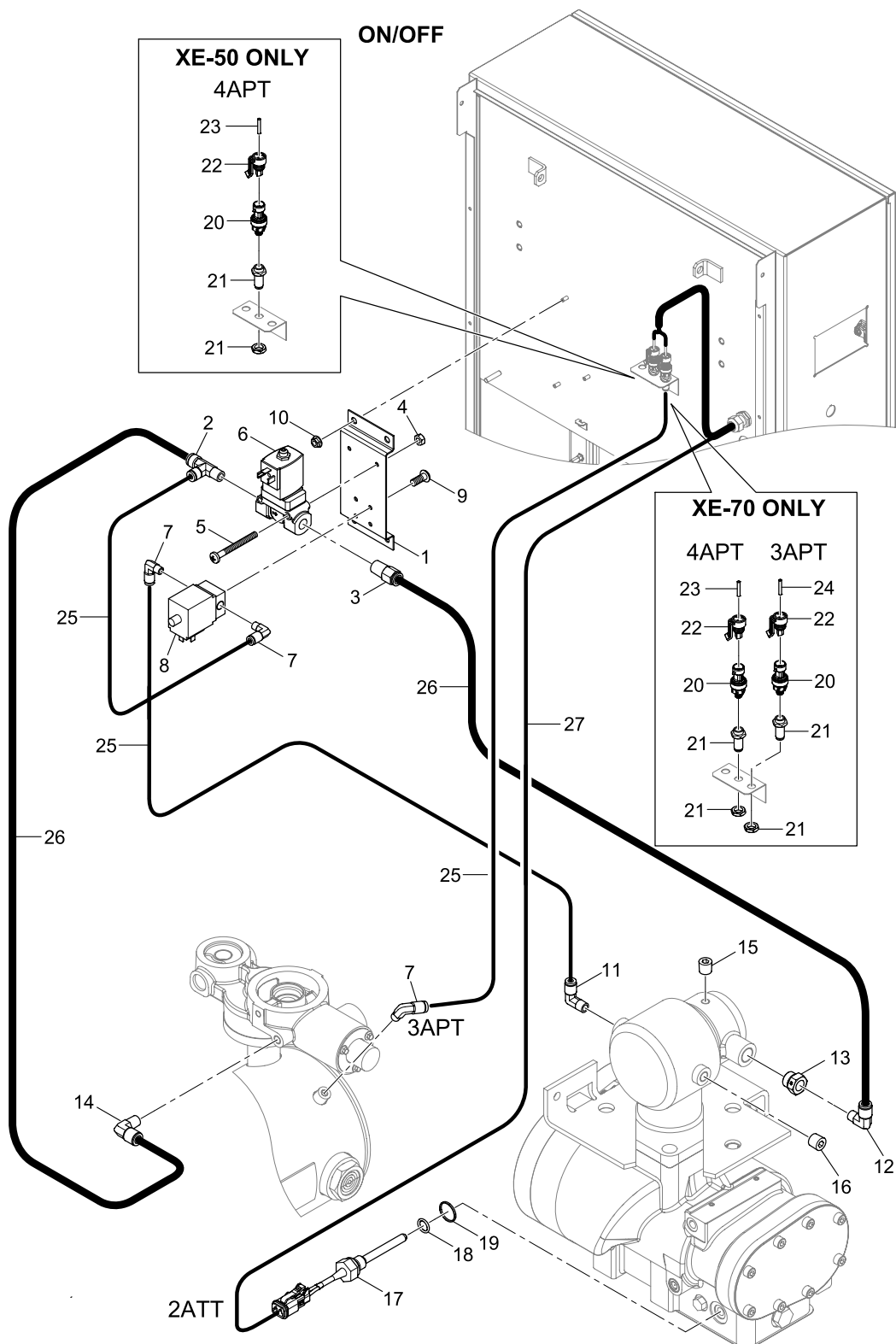
TAS (ON/OFF & MODULATION)



CONTROLS (FS) - STANDARD (XE-70)

Item	Part No.	Description	Qty.
1	39155577	ELBOW	2
2	39124813	TUBE	A/R
3	95837233	PLUG, SOCKET	1
4	54741608	GROMMET, INSULATION	2
A/R	AS REQUIRED		

CONTROLS (FS) - OPTION



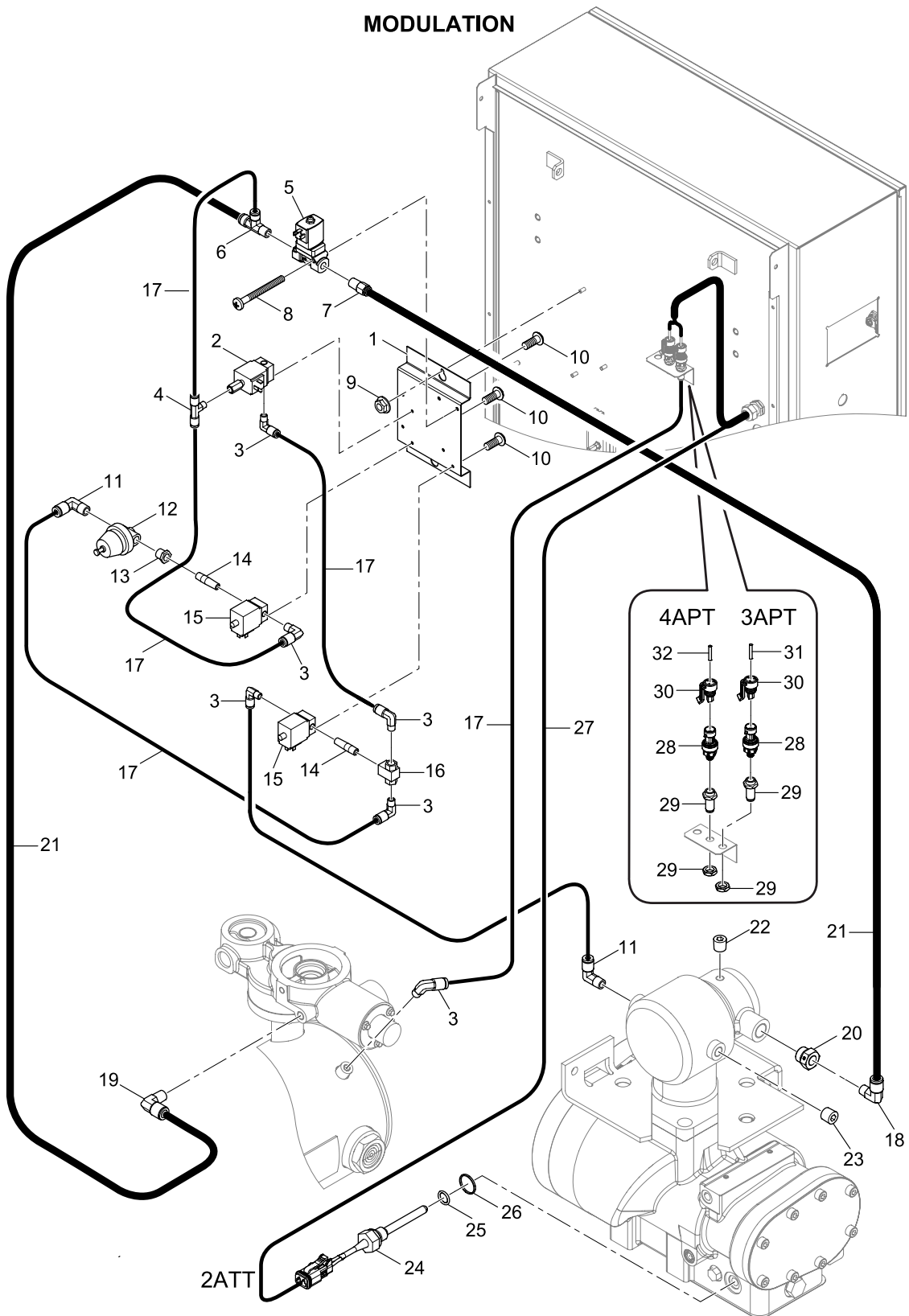
CONTROLS (FS) - OPTION

Item	Part No.	Description	Qty.
1	54755426	BRACKET	1
2	22055909	TEE	1
3	39156419	MALE CONNECTOR	1
4	96703756	NUT	2
5	96742754	SCREW	2
6	47624661001	VALVE, SOLENOID	1
7	39155577	ELBOW	3
8	54774302	VALVE, SOLENOID	1
9	96743182	SCREW	2
10	96737564	NUT	2
11	39155478	ELBOW	1
12	39155650	ELBOW	1
13	47615015001	ADAPTOR	1
14	47643752001	ELBOW	1
15	95837233	PLUG	1
16	95928230	PLUG	1
17	47598655001	SENSOR, TEMPERATURE (XE-50)	1
	47560490001	SENSOR, TEMPERATURE (XE-70)	1
18	24314692	O-RING	1
19	24314718	RETAINING RING	1
20	49154016	TRANSDUCER, PRESSURE(XE -50)	1
	49154016	TRANSDUCER, PRESSURE(XE - 70)	2
21	39461868	BULKHEAD, FEMALE UNION(XE -50)	1
	39461868	BULKHEAD, FEMALE UNION(XE - 70)	2
22	39875570	CABLE, TRANSDUCER(XE -50)	1
	39875570	CABLE, TRANSDUCER(XE - 70)	2
23	24068603	LABEL, CABLE 4APT	1
24	24068595	LABEL, CABLE 3APT	1
25	39124813	TUBE	A/R
26	39124821	TUBING	A/R
27	47643753001	CABLE, ASSEMBLY 2ATT	1

A/R	AS REQUIRED
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CONTROLS (FS) - OPTION

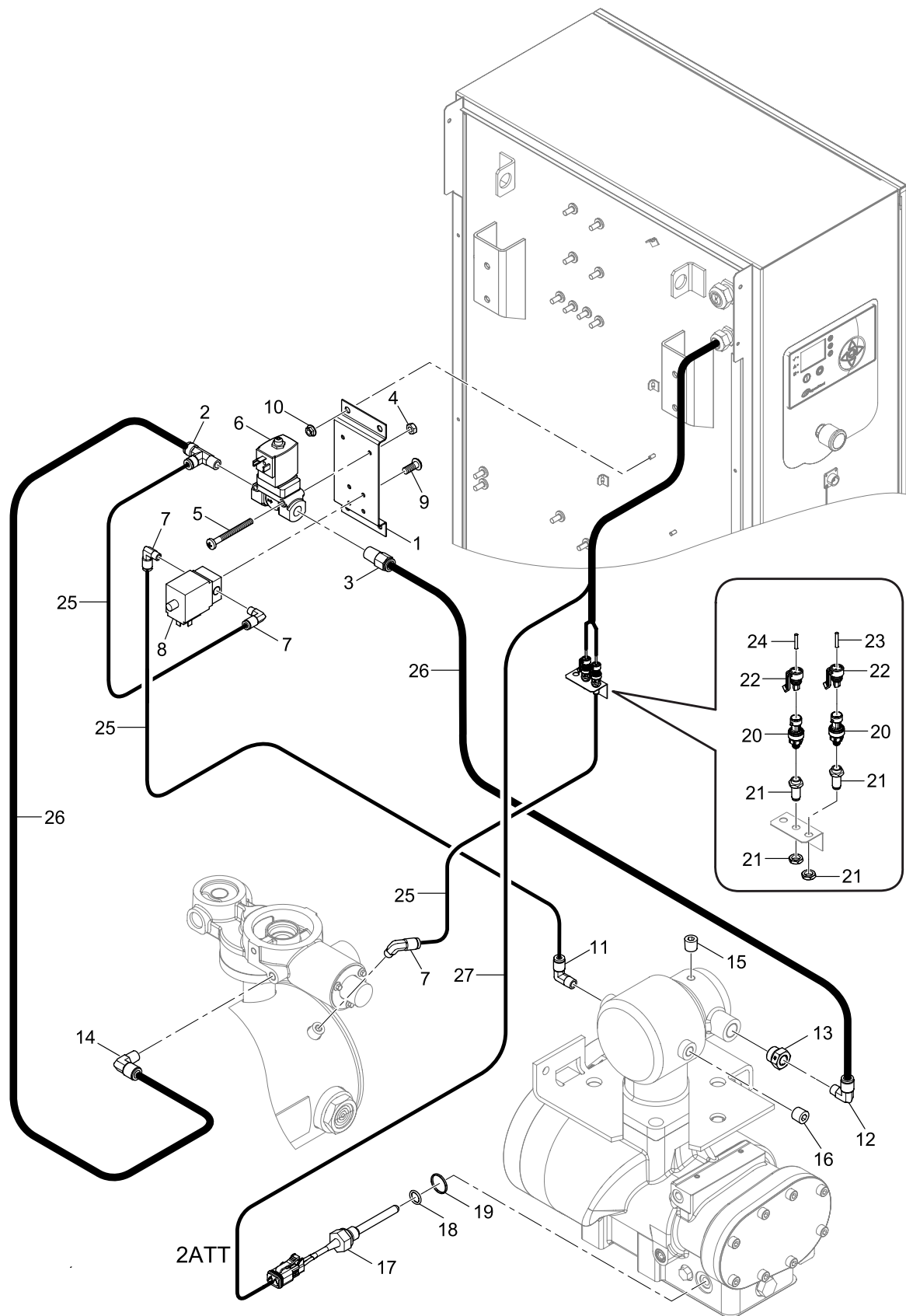
MODULATION



CONTROLS (FS) - OPTION

Item	Part No.	Description	Qty.
1	47618619001	BRACKET	1
2	22163307	VALVE, SOLENOID (NPT)	1
3	39155577	ELBOW	6
4	39156385	TEE, BRANCH	1
5	47624661001	VALVE, SOLENOID (NPT)	1
6	22055909	TEE	1
7	39156419	MALE CONNECTOR	1
8	96742754	SCREW	2
9	96737564	NUT	2
10	96743182	SCREW	6
11	39155478	ELBOW	2
12	39199476	VALVE, REGULATOR	1
13	95930301	BUSHING, REDUCER	1
14	95946059	NIPPLE	2
15	54774302	VALVE, SOLENOID (NPT)	2
16	39127261	VALVE, SHUTTLE	1
17	39124813	TUBE	A/R
18	39155650	ELBOW	1
19	47643752001	ELBOW	1
20	47615015001	ADAPTER	1
21	39124821	TUBE	A/R
22	95837233	PLUG	1
23	95928230	PLUG	1
24	47598655001	SENSOR, TEMPERATURE (XE-50)	1
	47560490001	SENSOR, TEMPERATURE (XE-70)	
25	24314692	O-RING	1
26	24314718	RETAINING RING	1
27	47643753001	CABLE, ASSEMBLY 2ATT	1
28	49154016	TRANSDUCER, PRESSURE	2
29	39461868	BULKHEAD, FEMALE UNION	2
30	39875570	CABLE, TRANSDUCER	2
31	24068595	LABEL, CABLE 3APT	1
32	24068603	LABEL, CABLE 4APT	1
A/R	AS REQUIRED		

CONTROLS (VSD) - OPTION

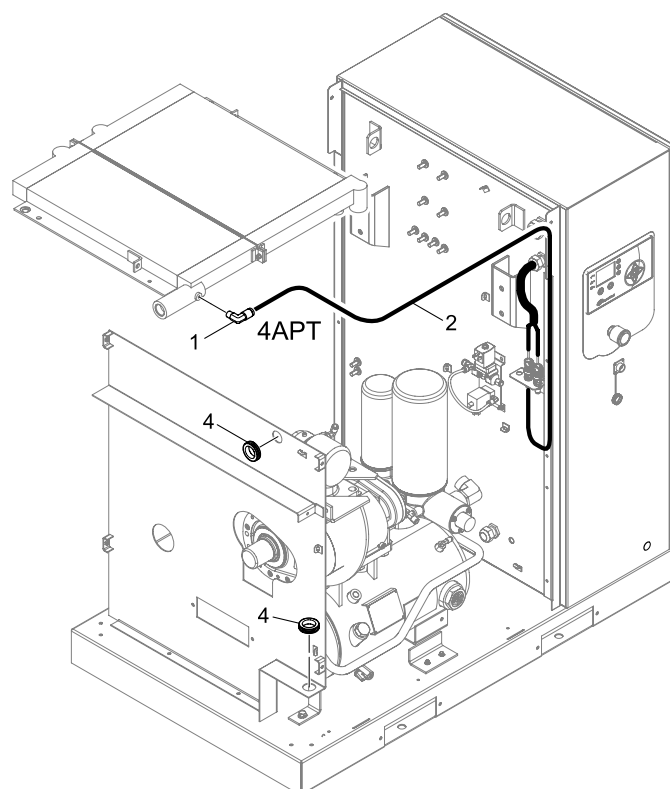


CONTROLS (VSD) - OPTION

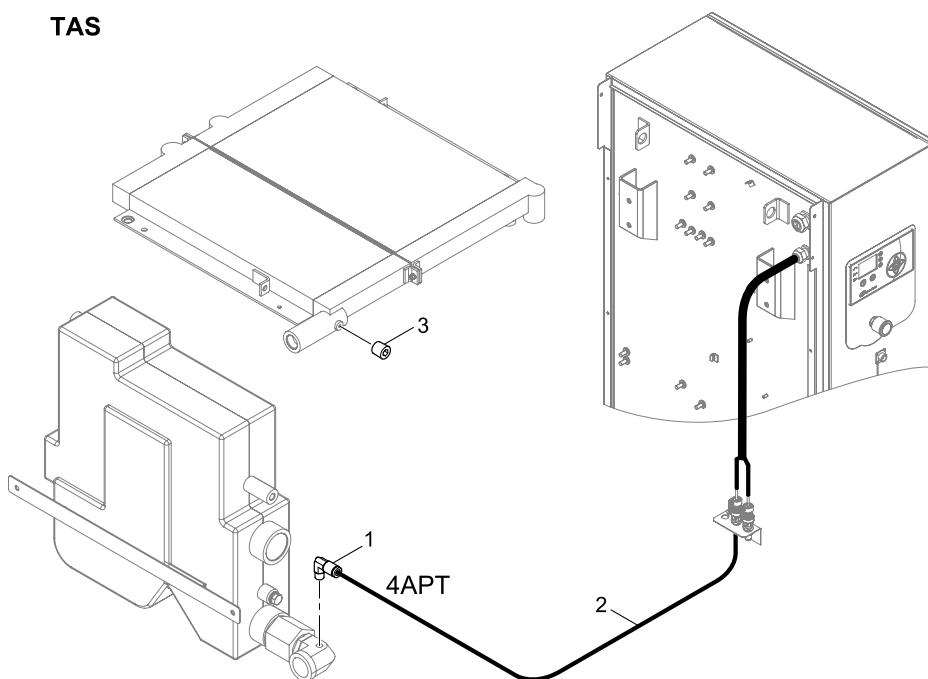
Item	Part No.	Description	Qty.
1	54755426	BRACKET	1
2	22055909	TEE	1
3	39156419	MALE CONNECTOR	1
4	96703756	NUT	2
5	96742754	SCREW	2
6	47624661001	VALVE, SOLENOID	1
7	39155577	ELBOW	2
8	54774302	VALVE, SOLENOID	1
9	96743182	SCREW	2
10	96737564	NUT	2
11	39155478	ELBOW	1
12	39155650	ELBOW	1
13	47615015001	ADAPTOR	1
14	47643752001	ELBOW	1
15	95837233	PLUG	1
16	95928230	PLUG	1
17	47560490001	SENSOR, TEMPERATURE	1
18	24314692	O-RING	1
19	24314718	RETAINING RING	1
20	49154016	TRANSDUCER, PRESSURE	2
21	39461868	BULKHEAD, FEMALE UNION	2
22	39875570	CABLE, TRANSDUCER	2
23	24068595	LABEL, CABLE 3APT	1
24	24068603	LABEL, CABLE 4APT	1
25	39124813	TUBE	A/R
26	39124821	TUBING	A/R
27	47621881001	CABLE, ASSEMBLY 2ATT	1
A/R	AS REQUIRED		

CONTROLS (VSD) - OPTION

NON-TAS



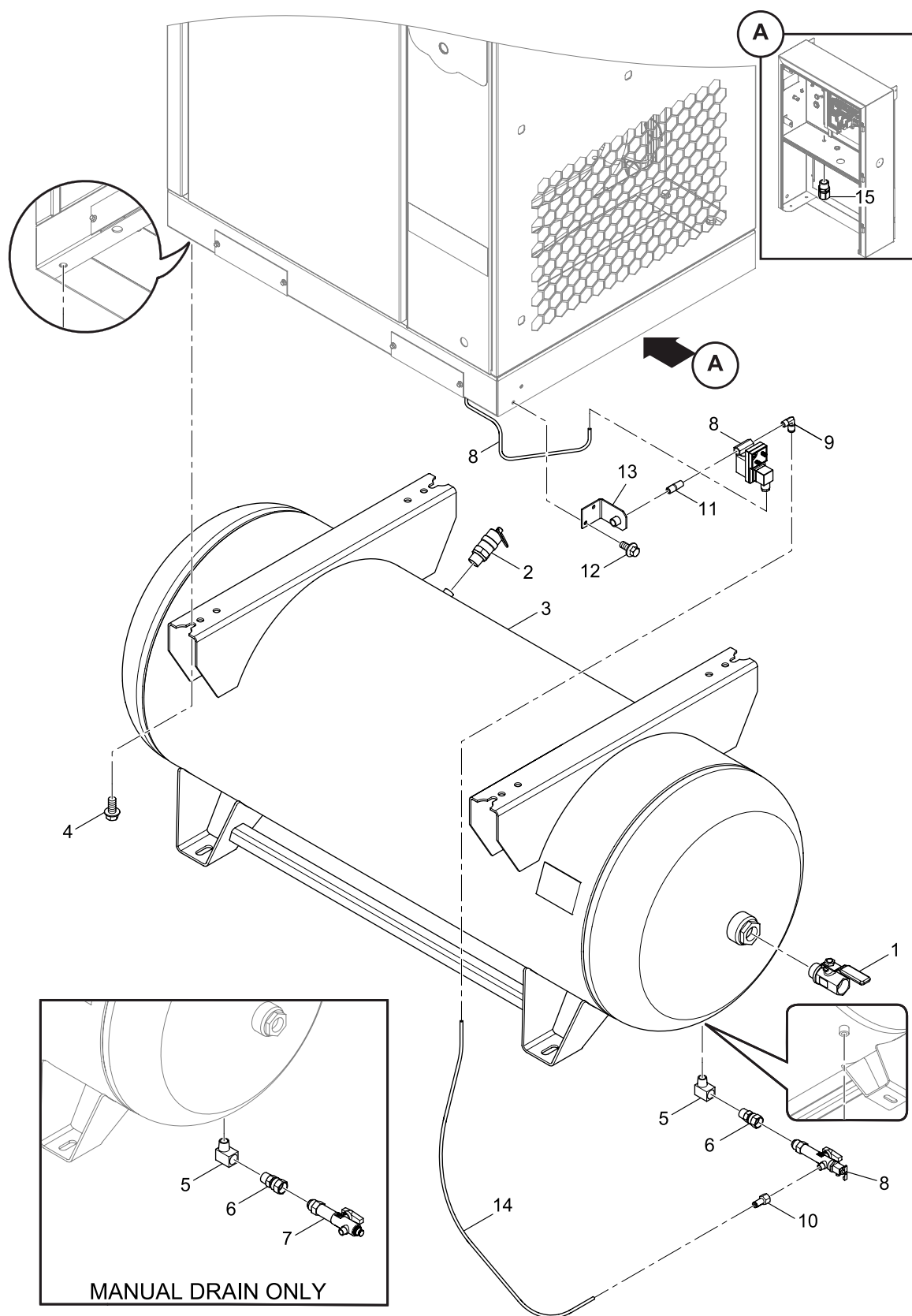
TAS



CONTROLS (VSD) - OPTION

Item	Part No.	Description	Qty.
1	39155577	ELBOW	1
2	39124813	TUBE	A/R
3	95837233	PLUG, SOCKET	1
4	54741608	GROMMET, INSULATION	2
A/R	AS REQUIRED		

RECEIVER TANK



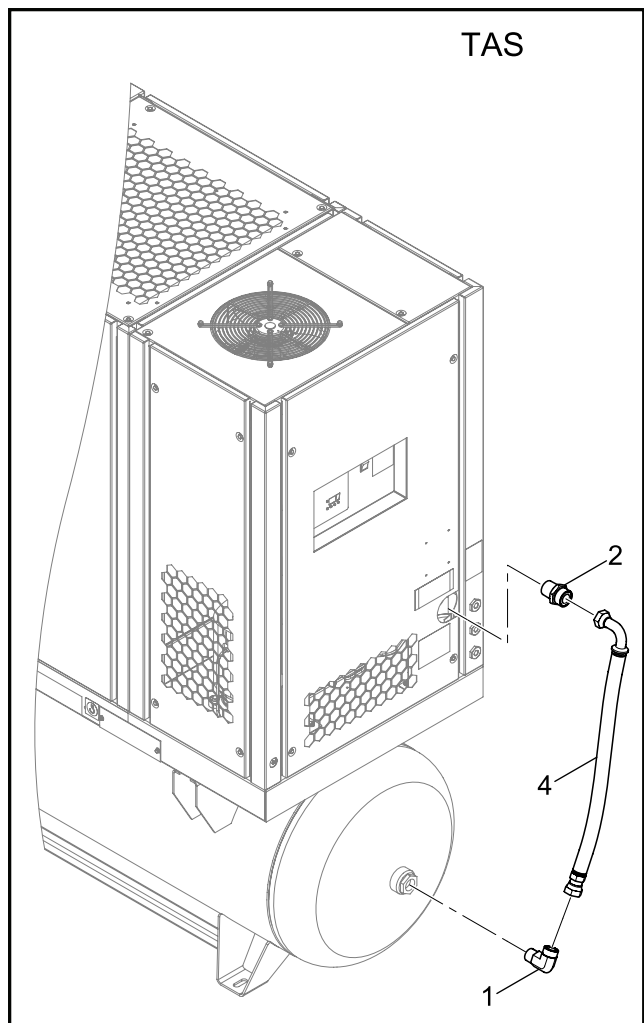
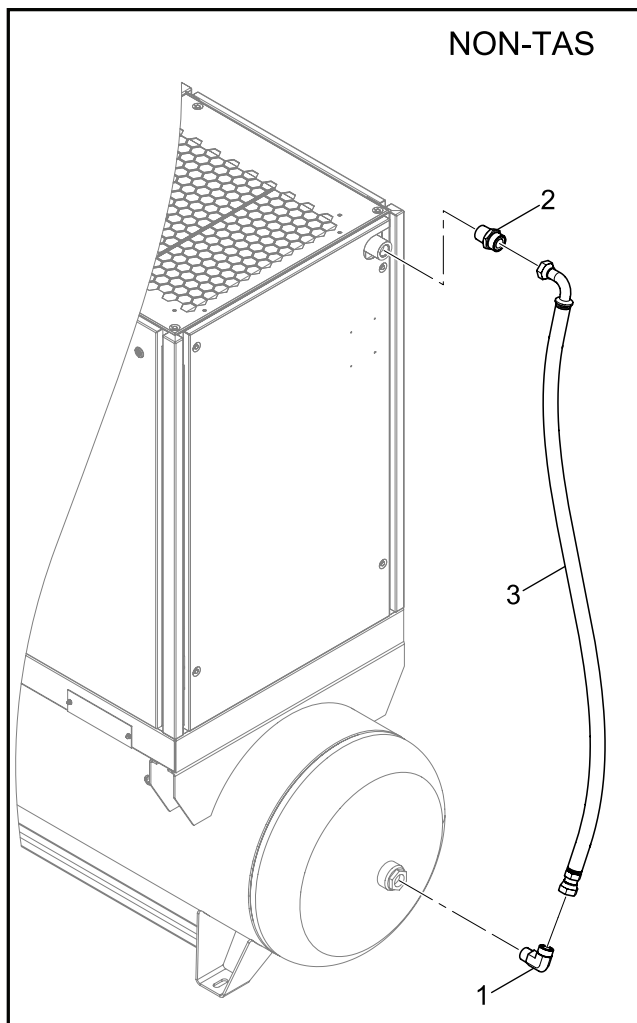
RECEIVER TANK

Item	Part No.	Description	Qty.
1	22055438	VALVE, BALL (NPT)	1
	22061386	VALVE, BALL (BSPT)	1
2	Table 15, p. 111	VALVE, PRESSURE SAFETY	1
3	Table 15, p. 111	TANK, RECEIVER	1
4	96704226	SCREW	4
5	16545998	ELBOW, MANUAL DRAIN (NPT)	1
	92354513	ELBOW, MANUAL DRAIN (BSPT)	1
6	95989638	CONNECTOR, MANUAL DRAIN (NPT)	1
	22062327	CONNECTOR, MANUAL DRAIN (BSPT)	1
7	47588992001	VALVE, MANUAL DRAIN	1
8	23462377	VALVE, DRAIN ELECTRIC - TIMER DRAIN	1
9	39155478	ELBOW, TIMER DRAIN	1
10	39156443	CONNECTOR, TIMER DRAIN	1
11	95242459	NIPPLE, TIMER DRAIN	1
12	96705058	SCREW	2
13	47630234001	BRACKET, TIMER DRAIN	1
14	39124813	TUBE, NYLON	A/R
15	39140785	PLUG (MANUAL DRAIN)	1
	22224976	CONNECTOR (TIMER DRAIN)	1
A/R	AS REQUIRED		

Table 15. Alternate Part Numbers

Application	Valve, Pressure Safety (#2) & (Qty.)	Tank, Receiver (#3) & (Qty.)
120 GALLON RECEIVER 200PSI	39588074 (1)	47623931001 (1)
120 GALLON RECEIVER 225 psi	22057210 (1)	47629526001 (1)
240 GALLON RECEIVER 200 PSI	39588074 (1)	47629533001 (1)
240 GALLON RECEIVER 225 psi	22057210 (1)	47629527001 (1)
500 LITRE RECEIVER 16BAR	22057954 (1)	47630215001 (1)
500 LITER RECEIVER 11 BAR	47637150001 (1)	47629528001 (1)
750 LITER RECEIVER 12 BAR	47637150001 (1)	47629529001 (1)
500 LITER RECEIVER 12 BAR	99291841 (1)	47618605001 (1)
500 LITER RECEIVER 16 BAR	99291866 (1)	47623929001 (1)
750 LITER RECEIVER 12 BAR	99291841 (1)	47629530001 (1)

RECEIVER TANK (TAS & NON-TAS)



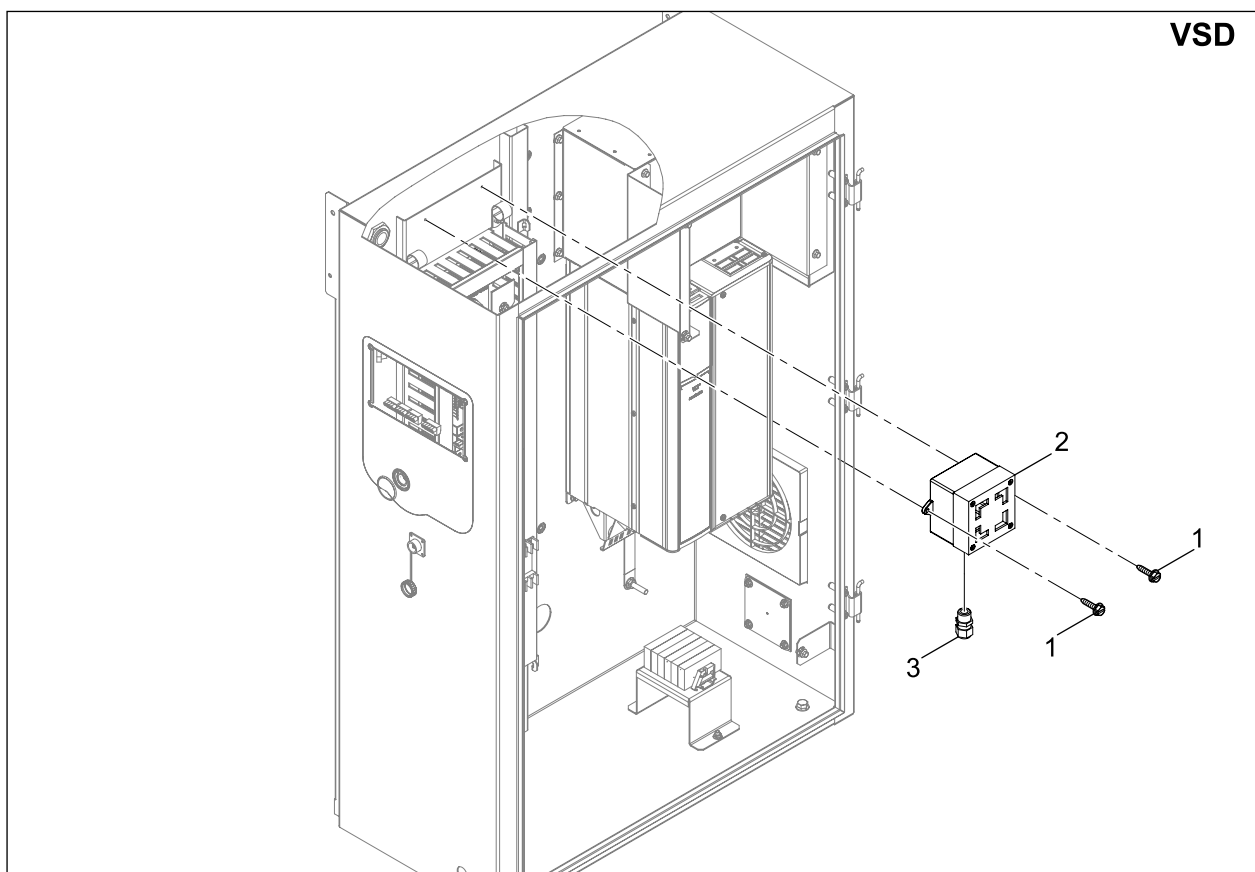
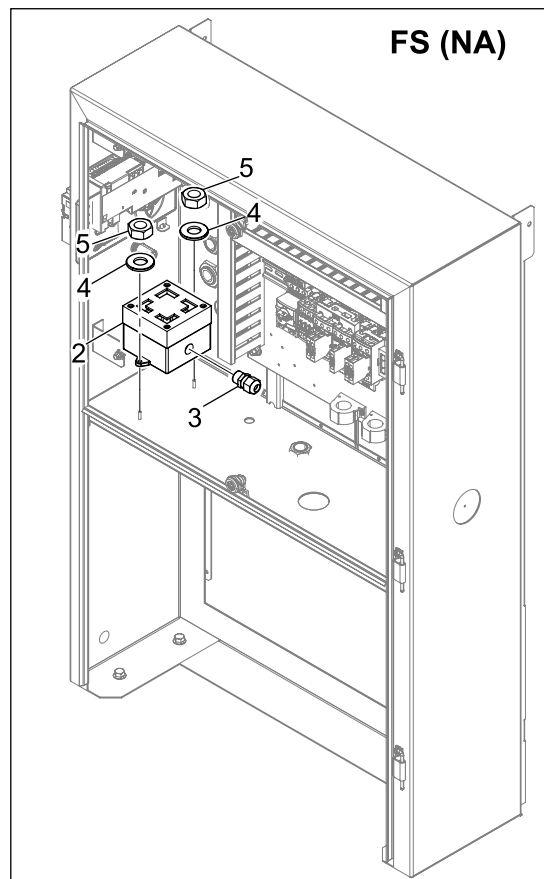
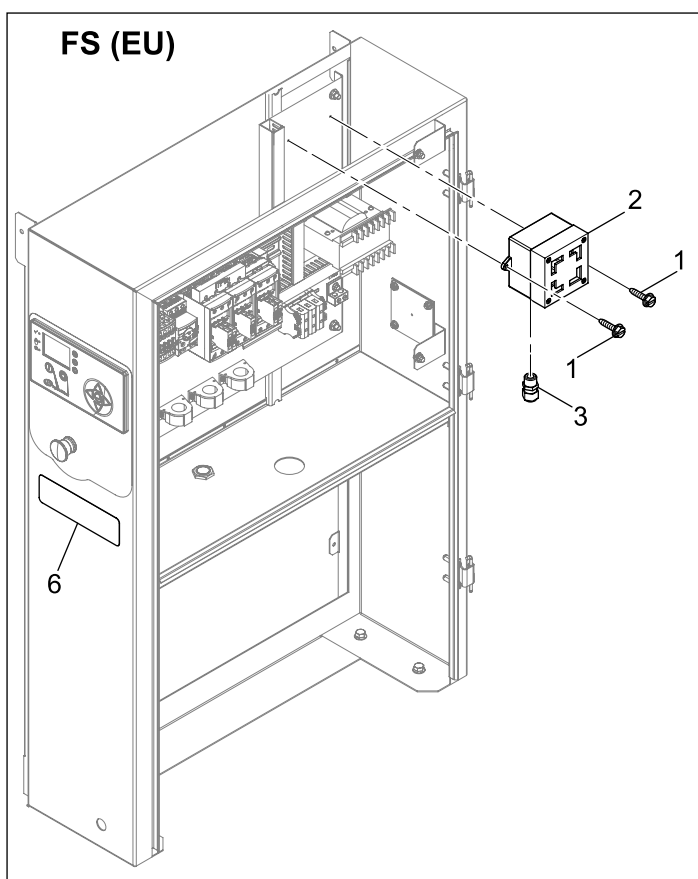
RECEIVER TANK (TAS & NON-TAS)

Item	Part No.	Description	Qty.
1	96967294	ELBOW (NPT)	1
	47566543001	ELBOW (BSPT)	1
2	96955398	CONNECTOR (NPT), ALL TAS UNITS	1
	47566539001	CONNECTOR (BSPT), NON TAS	1
3	Table 16, p. 113	HOSE, FS/VSD NON-TAS	1
4	Table 16, p. 113	HOSE, FS/VSD TAS	1

Table 16. Alternate Part Numbers

Receiver Capacity	HOSE, Non-TAS (#3)		HOSE, TAS (#4)	
	FS	VSD	FS	VSD
120G	85575256	85575256	85574937	85574937
240G	23416696004	23416696004	48662761	48662746
500L	23416696004	85575256	85574937	85574937
750L	23416696004	23416696004	48662746	48662746

OPTION - PORO (XE-70)



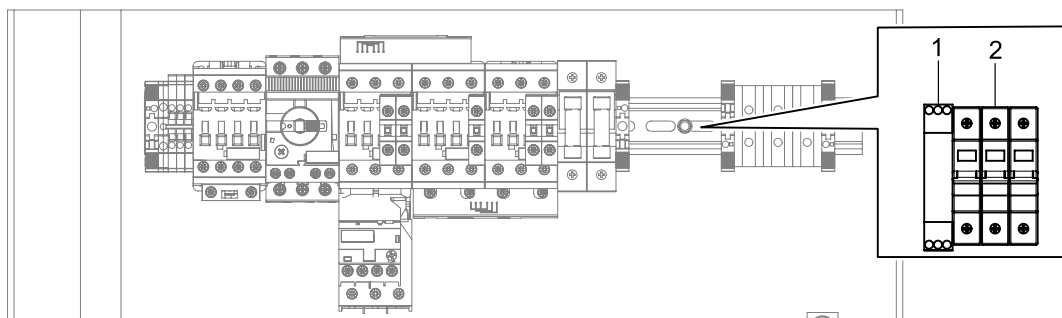
OPTION - PORO (XE-70)

Item	Part No.	Description	Qty.
1	35249721	SCREW	2
2	39100136	MODULE, ALRM	1
3	39265640	CONNECTOR, STRAIN RELIEF	1
4	96705165	WASHER	2
5	96703756	NUT	2
6	23550171	DECAL, PORO	1
**	47633837001	WIRE (FOR NA)	A/R
	47633836001	WIRE (FOR EU)	A/R

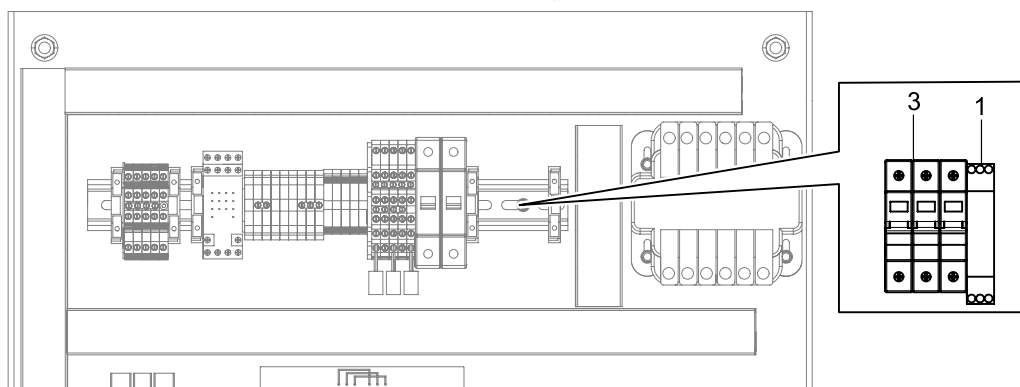
**	NOT ILLUSTRATED
A/R	AS REQUIRED

OPTION - PHASE MONITOR (XE-70)

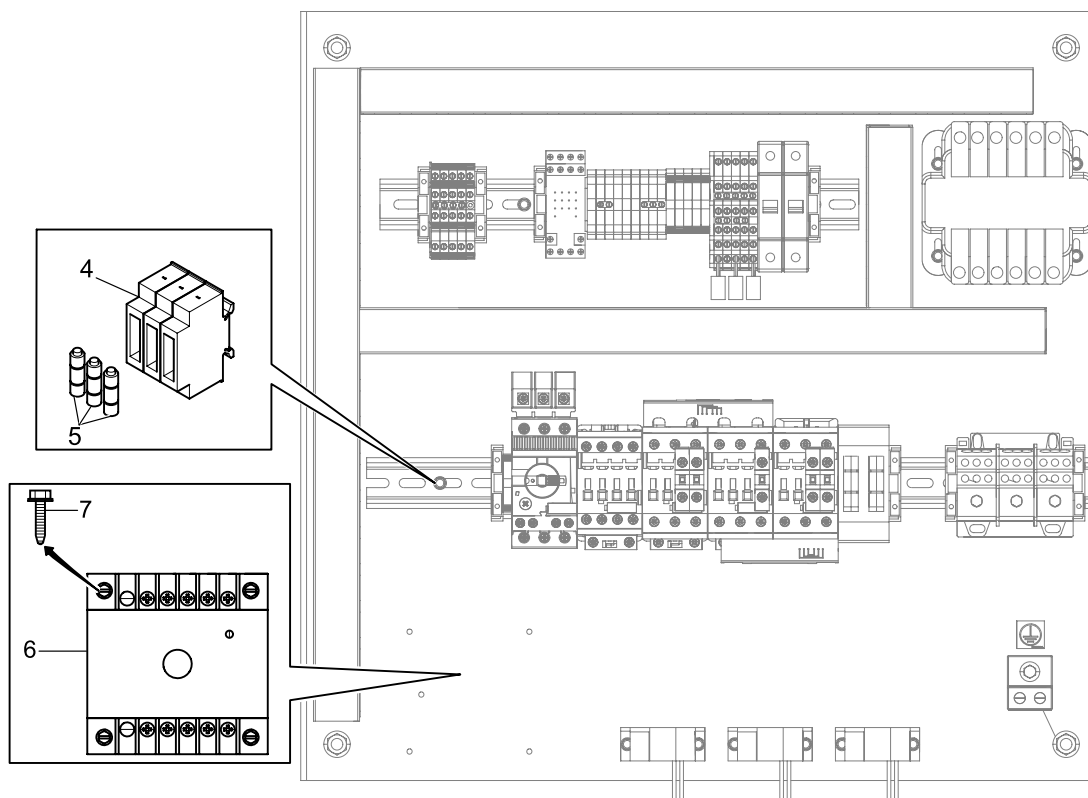
230-400V, 50Hz



208-480V, 60Hz



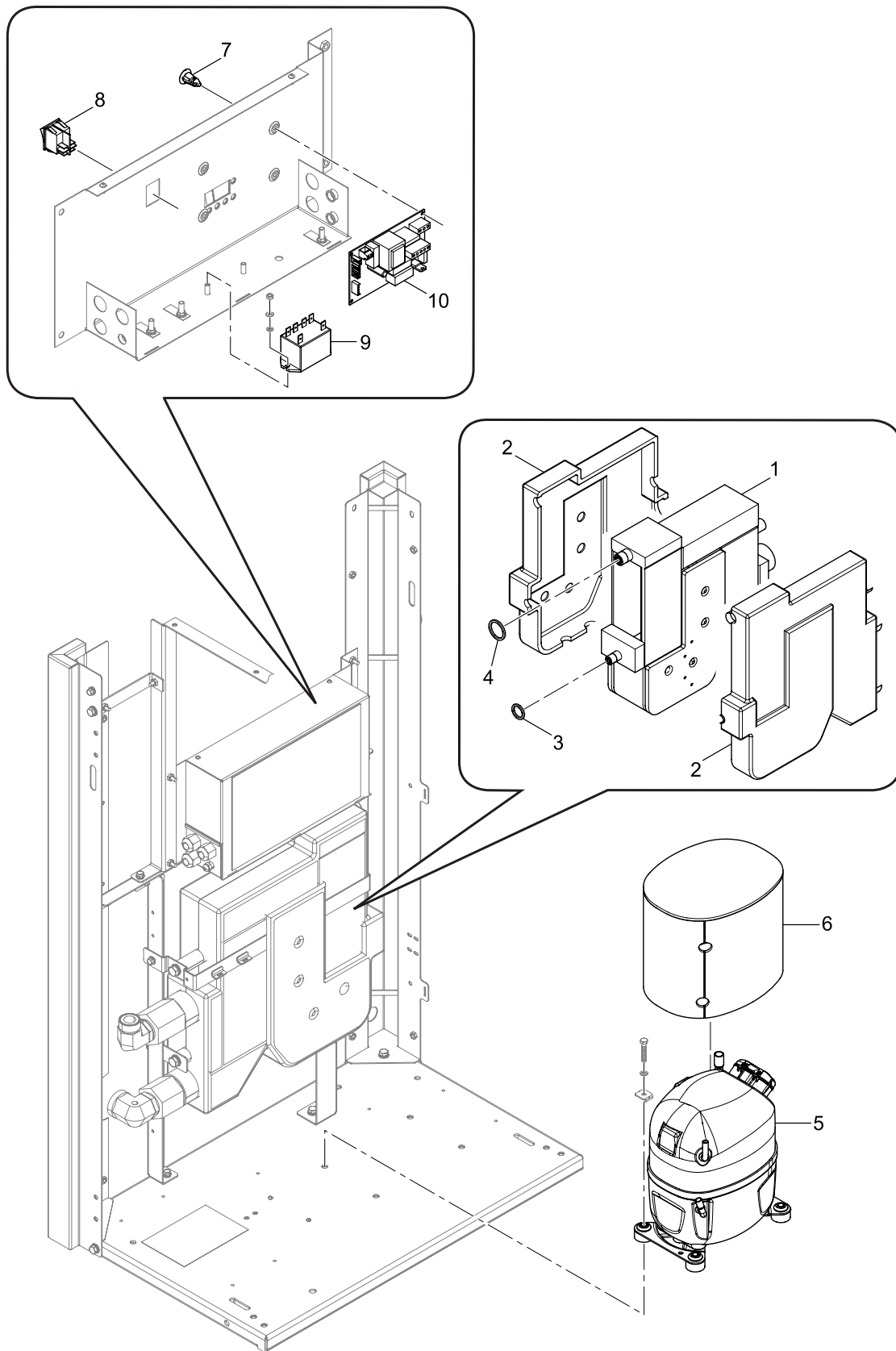
575V, 60Hz



OPTION - PHASE MONITOR (XE-70)

Item	Part No.	Description	Qty.
1	23083520	MONITOR, 3 PHASE	1
2	47605380001	BREAKER, 230/400V - 50Hz	1
3	47625359001	BREAKER, 208/480V - 60Hz	1
4	22344253	HOLDER, 3-POLE FUSE	1
5	47605751001	FUSE	3
6	39225479	MONITOR, 575V PHASE	1
7	35249721	SCREW	4
**	47633832001	WIRE (FOR EU)	A/R
**	47633833001	WIRE (FOR 208-480V NA)	A/R
**	47633834001	WIRE, PHASE MONITOR 575V	A/R
**	NOT ILLUSTRATED		
A/R	AS REQUIRED		

DRYER ASSEMBLY



DRYER ASSEMBLY

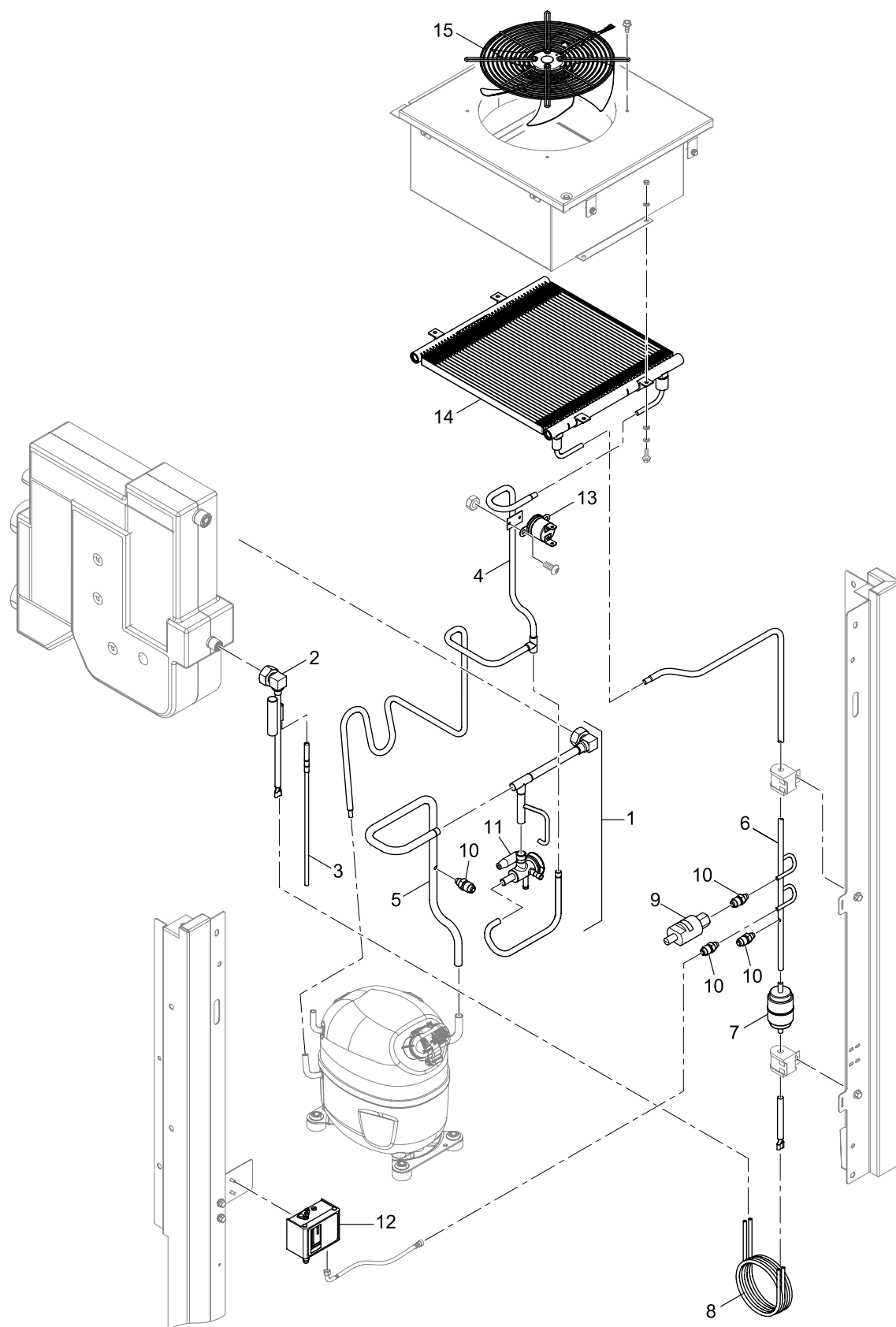
Item	Part No.	Description	Qty.
1	46841268	EVAPORATOR	1
2	49225816	SHELLS THERMOFORMED FOR EVAPORATOR	1
3	46840328	PAD ROTALOCK GASKET	1
4	46840336	PAD ROTALOCK GASKET	1
5	Table 17, p. 119	REFRIGERANT COMPRESSOR	1
6	47589781001	COMPRESSOR INSULATION	1
7	38057766	SPACER FOR ELECTRONIC CONTROLLER	4
8	38457826	SWITCH POWER FOR DRYER	1
9	Table 17, p. 119	SWITCH CONTACTOR	1
10	Table 17, p. 119	BOARD TIMED PC D180	1
**	22380364	REFRIGERANT, R134A, GRAM	A/L

**	NOT ILLUSTRATED
A/L	LABEL PRINT ON UNIT

Table 17. Alternate Part Numbers

Dryer CCN (TAS)	REFRIGERANT COMPRESSOR (#5) & (Qty.)	SWITCH CONTACTOR (#9) & (Qty.)	BOARD TIMED PC (#10) & (Qty.)
47623393001	47623822001 (1)	38459723 (1)	38459608 (1)
47623394001	47623823001 (1)	47637949001 (1)	38457404 (1)
47623395001	47623820001 (1)	38459723 (1)	38459608 (1)
47623396001	47623821001 (1)	47637949001 (1)	38457404 (1)

DRYER ASSEMBLY



DRYER ASSEMBLY

Item	Part No.	Description	Qty.
1	47582580001	HGBV & EVA OUTLET ASSEMBLY (BY PASS LINE)	1
2	Table 18, p. 123	EVA INLET TUBE	1
3	38459616	PROBE TEMPERATURE XREF	1
4	Table 18, p. 123	DISCHARGE TUBE	1
5	Table 18, p. 123	SUCTION TUBE	1
6	Table 18, p. 123	LIQUID LINE ASSEMBLY	1
7	47581637001	FILTER DRIER (SUB PART OF LIQUID LINE)	1
8	Table 18, p. 123	CAPILLARY TUBE	A/R
9	47631271001	HIGH PRESSURE SWITCH R134A	1
10	23617533	VALVE FREON CHARGE (SUB PART OF LIQUID LINE)	4
11	22363758	VALVE, REFRIGERANT HGBV SUB PART OF HGBV & EVA OUT ASSEMBLY)	1
12	18301622	SWITCH, FAN PRESSURE	1
13	18301671	THERMOSTAT (HIGH TEMPERATURE SWITCH)	1
14	Table 18, p. 123	MC CONDENSER ASSEMBLY	1
15	Table 18, p. 123	FAN MOTOR ASSEMBLY	1
A/R	AS REQUIRED		

DRYER ASSEMBLY

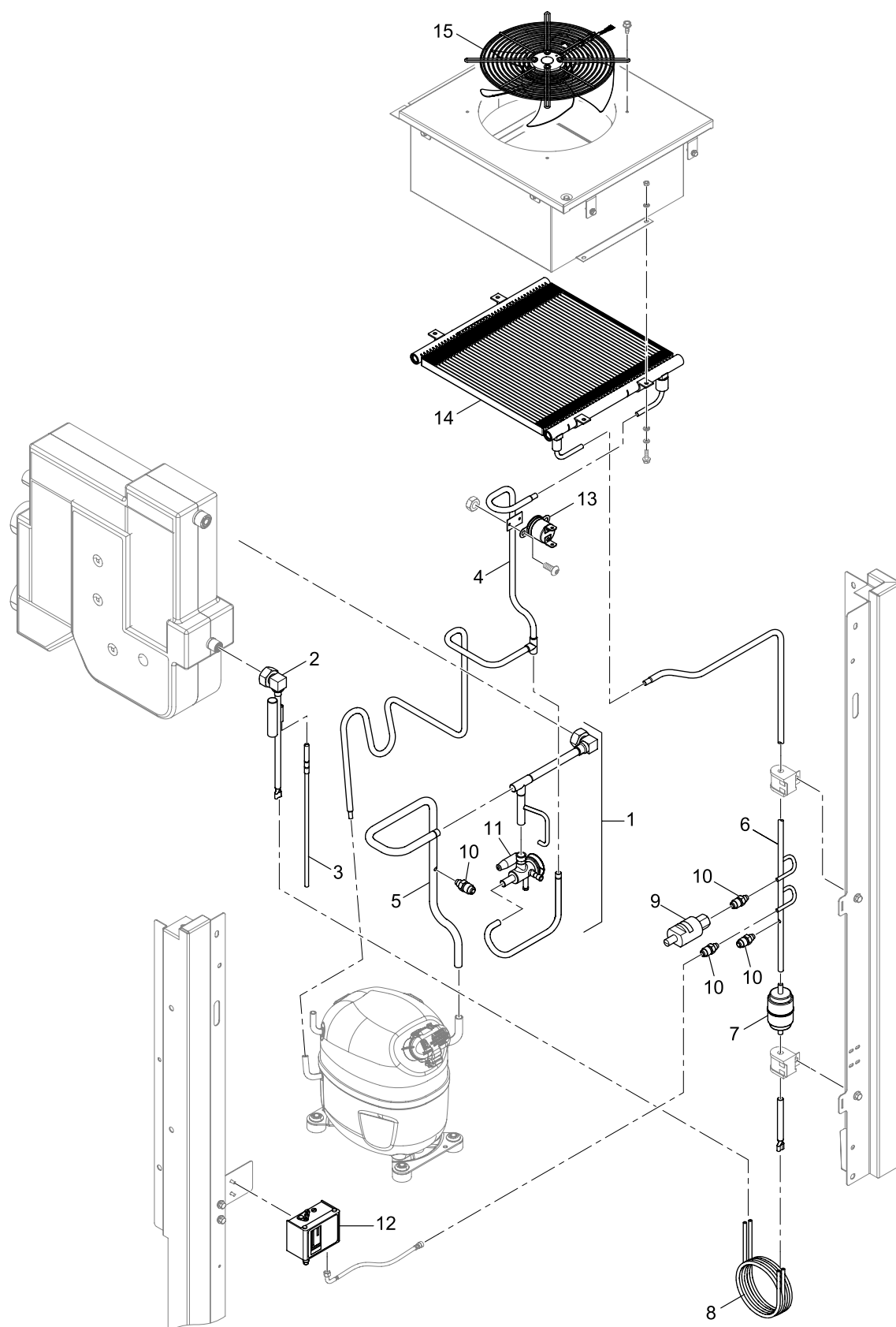


Table 18. Alternate Part Numbers

Dryer CCN (TAS)	EVA INLET TUBE (#2) & (Qty.)	DISCHARGE TUBE (#4) & (Qty.)	SUCTION TUBE (#5) & (Qty.)	LIQUID LINE ASSEMBLY(#6) & (Qty.)	CAPILLARY TUBE (#8) & (Qty.)	MC CONDENSER ASSEMBLY (#14) & (Qty.)	FAN MOTOR ASSEMBLY(#15) & (Qty.)
47623393001	47625501001 (1)	47581651001 (1)	47582581001 (1)	47582579001 (1)	47625272001 (2)	47566266001 (1)	47623824001 (1)
47623394001	47625501001 (1)	47591942001 (1)	47591941001 (1)	47582579001 (1)	47625272001 (2)	47566266001 (1)	47623825001 (1)
47623395001	47625273001 (1)	47591942001 (1)	47591941001 (1)	47591946001 (1)	47625271001 (1)	47566272001 (1)	47623824001 (1)
47623396001	47625273001 (1)	47591942001 (1)	47591941001 (1)	47591946001 (1)	47625271001 (1)	47566272001 (1)	47623825001 (1)

