



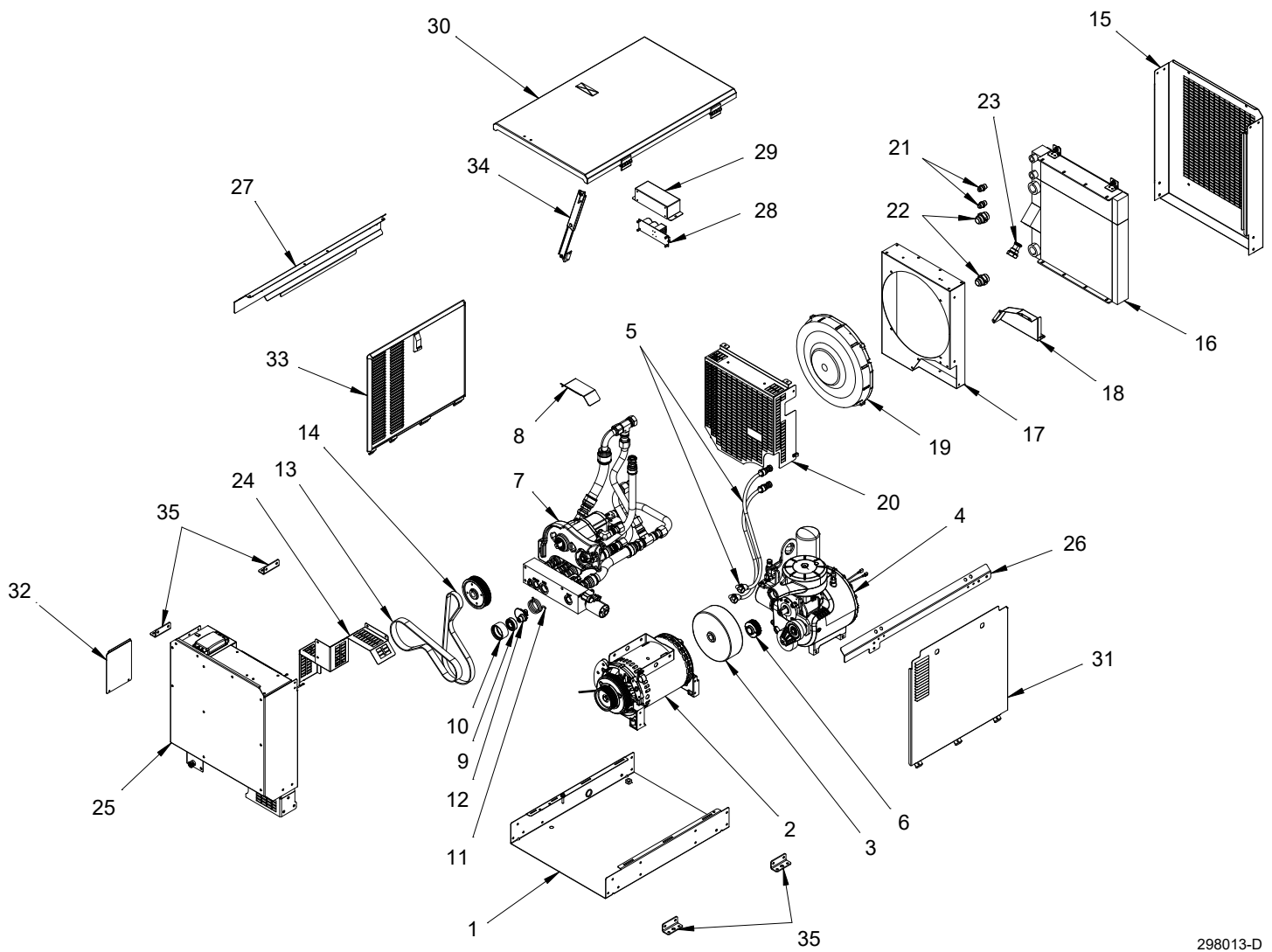
PM- 296664 A

HDI 265 and 325 Air Pak

Effective with Serial Number
NF031165R - 222ZZZZZR



PARTS MANUAL



298013-D

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		296462	Base	1
2			Generator Assembly (See following for subassembly information)	1
3		297810	Flywheel, Tapered Rotor	1
4			Air Compressor Assembly (See following for subassembly information)	1
5		297091	Hose, 3/8" Compressor Oil	2
/		297037	Bracket, Lift Eye	1
6		298211	Pulley, Compressor 3.18 Dia. (HDI 265 Only)	1
6		287414	Pulley, Compressor 2.62 Dia (HDI 325 Only)	1
7		400349	Assy, Motor/Manifold HDI 265 AP	1
7		400379	Assy, Motor/Manifold HDI 325 AP	1
8		298399	Guard, Manifold	1
9		287285	Bearing, 62/22 22 x 50 x 14 w/5k	1
10		287241	Pulley, Idler 2.5"	1
11		288580	Spring, Torsion 2.25" Od .187 Wire Dia	1
12		296378	Shaft, Tensioner	1
13		296473	Belt, Main Drive 8PK915	1
14		298212	Belt, Compressor 6PK1000 (HDI 265)	1
14		287273	Belt, Compressor 6pk975 (HDI 325)	1
15		299585	↓ Panel Assy, Rear (Service)	
/		296467	→ Panel, Rear	1
/		292927	→ Label, Warning External Hot Surfaces (Triling)	2
16		296472	Cooler, Hyd Comp Oil	1
17		296470	Shroud, Cooler Fan	1
18		297871	Insert, Cooler Shroud	1
19		281673	Fan, Engine Cooling (Electric)	1
/		142792	Tubing, Corrugated Plastic Slit .625 Dia x 10.000	1
20		298740	Guard, Fan	1
21		239094	Ftg, Adapter Stl 1/2Sae(M) x 1/2jic(M)	2
22		297087	Fitting, 1" Sae to Jic	2
23		298913	Valve, Cooler Hydraulic Check	1
24		296468	Guard, Belt	1
25			Front Panel HDI 265 Assembly (See following for subassembly information)	1
25			Front Panel HDI 325 Assembly (See following for subassembly information)	1
/		087318	Clamp, Stl Cush 1.000 Dia x .406 Mtg Hole	2
/		020279	Clamp, Stl Cush .687 Dia x .281 Mtg Hole	1
26		296464	Rail, Hinge Side	1
/		189975	Hinge, Door Access 180 Deg	2
27		296463	Rail, Door Side	1
28		293492	Circuit Card Assy, Excitation	1
29		296609	Cover, Exciter Board	1
/		297477	Edging, Exciter Board Cover	1
30		299317	↓ Cover Assy, Top HDI (Service)	
/		296465	→ Cover, Top	1

*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

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Main Assembly

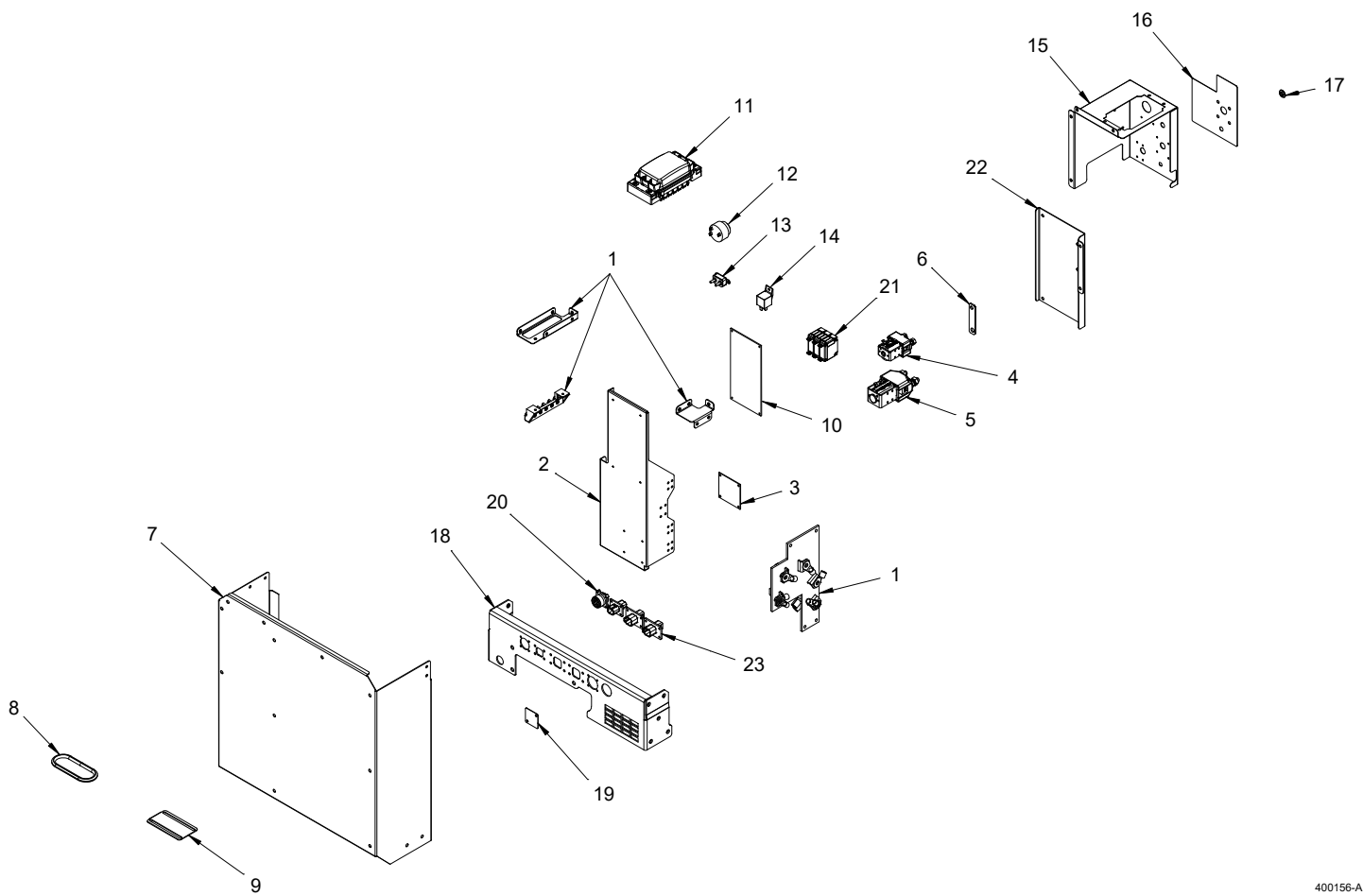
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		243021	→ Label, Wrng Mvng Prts Can Cause Injury 3in X	1
/		296943	→ Label, QR Code HDI AP	1
/		296933	→ Label, Maintenance HDI AP	1
/		297514	→ Ckt, HDI AP	1
/		289210	→ Label, Warning General Precautionary	1
/		194320	→ Latch, Lever Flush Trigger	1
31		299586	↓ Panel Assy, Side	
/		296953	→ Panel, Side	1
/		287336	→ Latch, 1/4 Turn Cam Slotted Zinc Powder Black	2
/		298563	→ Label, Miller Logo, HDI Door	1
/		243021	→ Label, Wrng Mvng Prts Can Cause Injury 3in X	1
/		287064	→ Label, Warning Electric Shock	1
32		288449	Panel, Cover-Electrical	1
33		299318	↓ Door Assy, Side (Service)	
/		296466	→ Door, Side	1
/		298563	→ Label, Miller Logo, HDI Door	1
/		243021	→ Label, Wrng Mvng Prts Can Cause Injury 3in X	1
/		289218	→ Label, Warning Unexpected Starting & Hot Oil	1
/		280750	→ Label, Warning Compressed Air	1
/		194320	→ Latch, Lever Flush Trigger	1
34		251862	Catch, Cover Telescoping Push Button	1
/		296608	Guard, Comp Belt	1
/		277339	Blank, Snap-In Nyl 1.250 Mtg Hole Black	1
/		210530	Blank, Snap-In Nyl 1.250 Mtg Hole Black	1
/		010493	Bushing, Snap-In Nyl .625 Id x .875 Mtg Hole	1
35		213668	Bracket, Mtg Unit	4
/		UI Assembly	(See following for subassembly information)	1
/		296986	Cable, Interconnecting Pwr 30 Ft 4/C w/Twisted Pair	1
/		244283	Cable, Interconnecting Power 30 Ft 6/C	1
/		Remote Panel Assembly (Weld Remote Panel)	(See following for subassembly information)	1
/		Remote Panel Assembly (Battery Charge)	(See following for subassembly information)	1
* /		299115	Kit, Label (907868)	
* /		299116	Kit, Label (907869)	

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400156-A

Front Panel HDI 265 Assembly

Front Panel HDI 265 Assembly

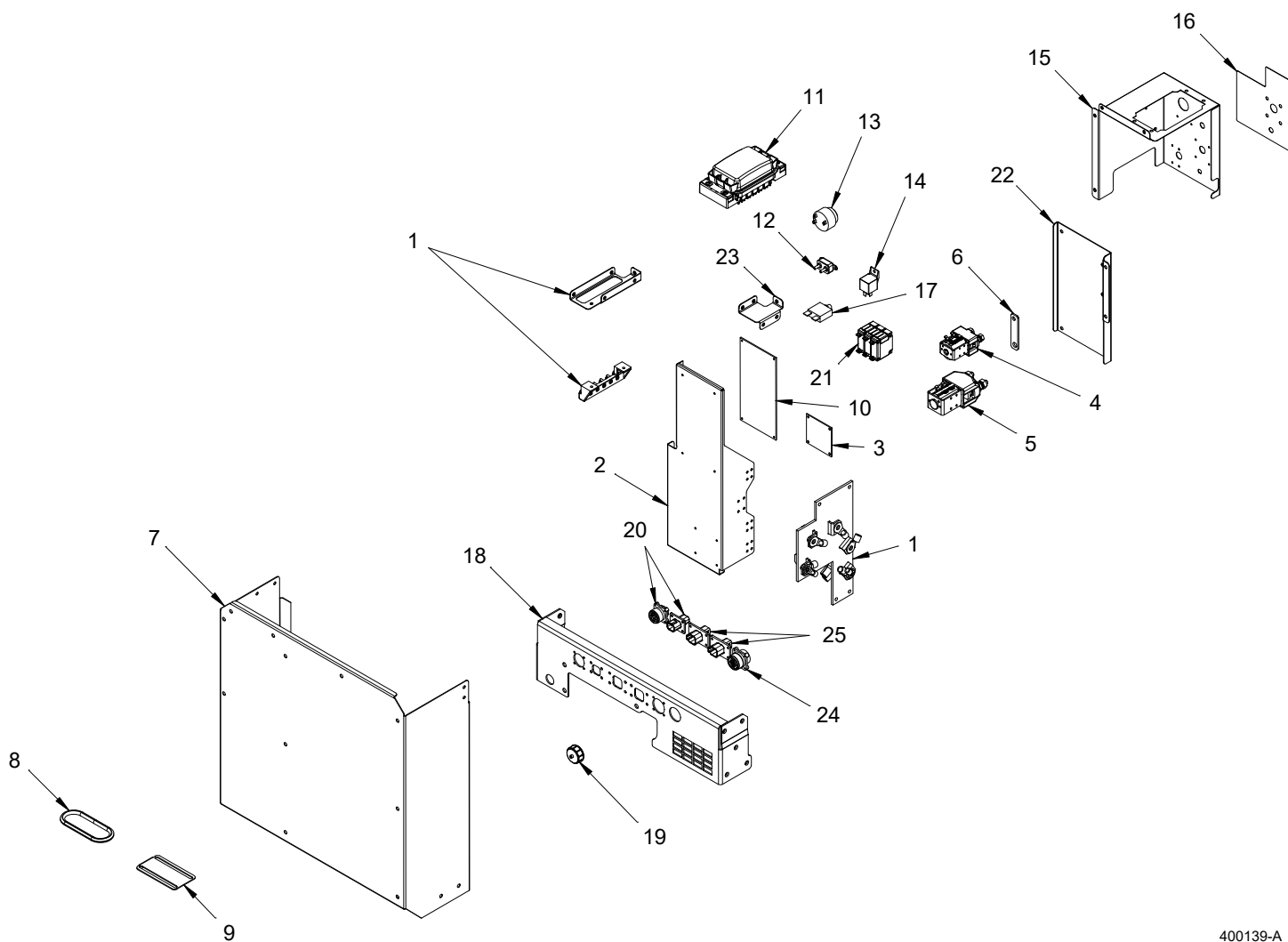
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		400156	↓ Panel Assy, Front w/Components (HDI 265 AP)	1
/		299320	→ Panel Assy, Front HDI 265 (Service 907868)	1
1		293419	→ Assy, Lead Control Panel	1
/		288448	→ Bus Bar, Connecting	3
2		285865	→ Bracket, Mtg Control Board	1
3	PC8	275464	→ Circuit Card Assy, Battery Charger Clamp Pcb	1
4	W1	274641	→ Contactor, 14DC Co Encl	1
5	W2	288400	→ Contactor, 14 Vdc	1
6		296955	→ Bus Bar, Contactor	1
/		299007	→ Harness, Voltage Feedback/Contator	1
7		287518	→ Panel, Front	1
8		275899	→ Trim, Edge Protector 12 In Lg	1
9		290206	→ Plate, Slide Back	1
10	PC3	296954	→ Circuit Card Assy, Control w/Program	1
/		296903	→ Module, Assy, Inverter Weld/BatchG	1
/		297169	→ Assy, Harness w/Bracket	1
11		286805	→ M odule, Fuse/Relay CPA 96 Pin	1
12		250930	→ A larm, Piezo Slow Pulse 4-16 Vdc 105/100 Db	1
13		190374	→ C ircuit Breaker, Auto Reset 12 Vdc 40 Amp	1
14		173069	→ R elay, Encl 12 Vdc Spdt 30A/20A 5 Pin Flange Mtg	1
15		285864	→ B rack, Fuse Block Holder	1
16		296507	→ H ole Layout, HDI AP Switch	1
17		298608	→ Blank, Snap-In Ldpe .375 Mtg Hole Black	1
18		296461	→ Bracket, Mtg End Component	1
/		202593	→ Tubing, Corrugated Plastic Slit .250 Dia x 6.000	1
19		298587	→ Plate, 14 Pin Hole Cover	1
/		173734	→ Link, Jumper	1
20		288188	→ Harness, Wrg 10 Pin Remote	1
/		283732	→ Cover, Protective Cap 10 Pin Rcpt	1
21	CB1	288399	→ Supplementary Protector, Man Reset 3P 40A 250Vac	1
/	CT3	277281	→ Xfmr, Current Sensing	1
/		204737	→ Cable Tie Mount, Winged Push	1
22		288450	→ Panel, Cover-Electrical Rear	1
23		288514	→ Conn, Deutsch 6P 2Row Rcpt Flange Mnt	2
/		287518	→ Panel, Front	1
/		296930	→ Label, HDI 265 Logo	2
/		298589	→ Label, Rating Card HDI 265 AP	1
/		296932	→ Label, Connections HDI AP	1
/		217395	→ Bumper, Door .500 Od x .250 High Nprn 70 Duro	4

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400139-A

Front Panel HDI 325 Assembly

Front Panel HDI 325 Assembly

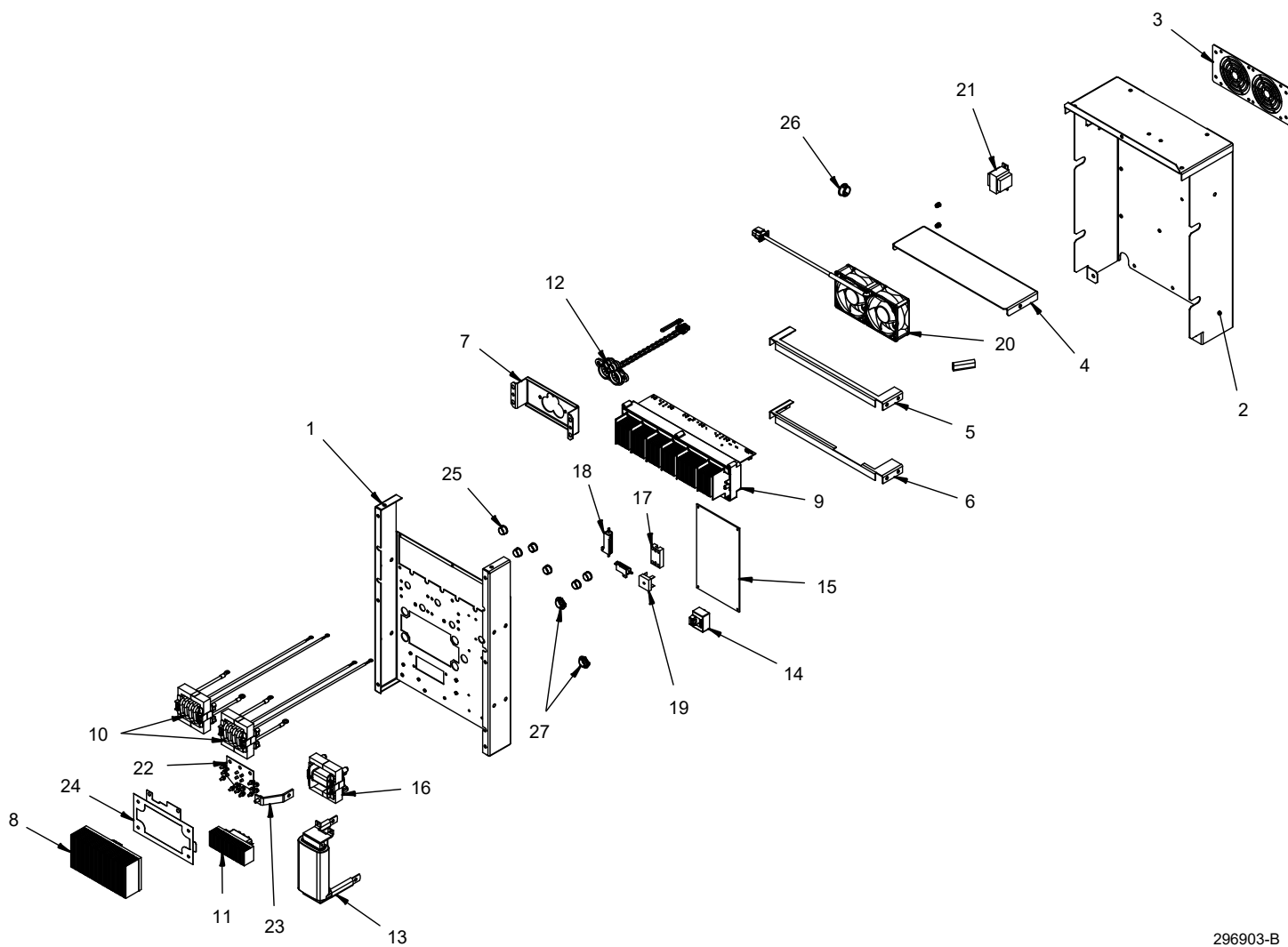
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		400139	↓ Panel Assy, Front w/Components (HDI 325 AP)	
/		299319	→ Panel Assy, Front HDI 325 (Service 907869)	1
1		293419	→ Assy, Lead Control Panel	1
/		288448	→ Bus Bar, Connecting	3
2		285865	→ Bracket, Mtg Control Board	1
3	PC8	275464	→ Circuit Card Assy, Battery Charger Clamp Pcb	1
4	W1	274641	→ Contactor, 14DC Co Encl	1
5	W2	288400	→ Contactor, 14 Vdc	1
6		296955	→ Bus Bar, Contactor	1
/		299007	→ Harness, Voltage Feedback/Contator	1
7		287518	→ Panel, Front	1
8		275899	→ Trim, Edge Protector 12 In Lg	1
9		290206	→ Plate, Slide Back	1
10	PC3	296954	→ Circuit Card Assy, Control w/Program	1
/		296903	→ Module, Assy, Inverter Weld/BatchG	1
/		297169	→ Assy, Harness w/Bracket	1
11		286805	→ M Module, Fuse/Relay CPA 96 Pin	1
12		190374	→ C Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1
13		250930	→ A Alarm, Piezo Slow Pulse 4-16 Vdc 105/100 DbA	1
14		173069	→ R Relay, Encl 12 Vdc Spdt 30A/20A 5 Pin Flange Mtg	1
15		285864	→ B Bracket, Fuse Block Holder	1
16		297337	→ L Label, HDI AP Switch	1
17		298514	→ Harness List, Front Panel (HDI 265 AP)	1
18		296461	→ Bracket, Mtg End Component	1
/		294259	→ Jumper, Enpak HDI 325 Identifier	1
19		291712	→ Assy, Cap 14 Pin	1
/		173734	→ Link, Jumper	1
20		288188	→ Harness, Wrg 10 Pin Remote	1
/		283732	→ Cover, Protective Cap 10 Pin Rcpt	1
21	CB1	288399	→ Supplementary Protector, Man Reset 3P 40A 250Vac	1
/	CT3	277281	→ Xfmr, Current Sensing	1
/		204737	→ Cable Tie Mount, Winged Push	1
22		288450	→ Panel, Cover-Electrical Rear	1
23		288446	→ Bracket, Elect Bottom	1
24		134735	→ Conn, Circ Ms/Cpc 14skt Size 20 Rcpt Panel Pushin	1
25		288514	→ Conn, Deutsch 6P 2Row Rcpt Flange Mnt	2
/		400163	→ Hardware List, Front Panel (HDI 265 AP)	1
/		287518	→ Panel, Front	1
/		298564	→ Label, HDI 325 Logo	2
/		296929	→ Label, Rating Card HDI 325 AP	1
/		296932	→ Label, Connections HDI AP	1
/		217395	→ Bumper, Door .500 Od x .250 High Nprn 70 Duro	4

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296903-B

Weld Module Assembly

Weld Module Assembly

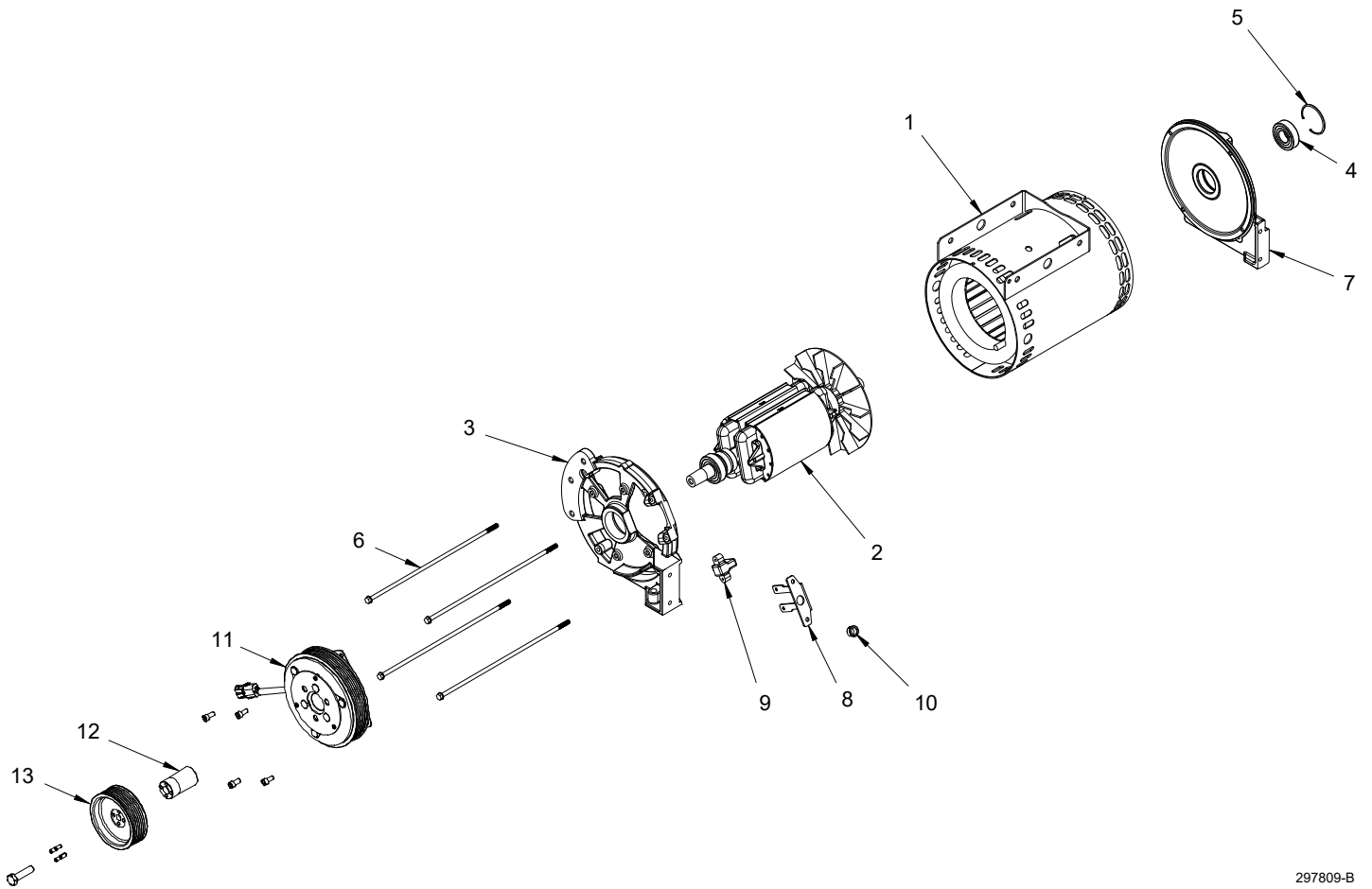
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		296903	↓ Module, Assy, Inverter Weld/BatchG	
1		287475	→ Bracket, Back (PMA)	1
2		296904	→ Bracket, Inverter Enclosure Front	1
3		296905	→ Bracket, Inverter Fan	1
4		288439	→ Bracket, Baffle Fan Mtg	1
5		288984	→ Bracket, Baffle Upper	1
6		288440	→ Bracket, Baffle Lower	1
7		287476	→ Bracket, Inner (PMA)	1
8	SR1	284777	→ Assy, Input Rectifier	1
9		284779	→ Assy, Primary Power	1
10	T1, T2	284769	→ Xfmr, Hf E80 T1 T2 15p, 4 Sec Litz/Litz	2
11	D1, D2, D3	284778	→ Assy, Output Rectifier	1
/	RT2	288923	→ Thermistor, NTC 30K Ohm at 25 °C 10.00 IN 2500V	1
12	CT1, CT2	287681	→ Ct/Bushing Assembly (8" Leads)	1
13	L2	298790	→ Output Inductor, HDI	1
14	HD1	278986	→ Transducer, Current 400A Module Supply V +/- 15V	1
15	PC1	298125	→ Circuit Card Assy, Control w/Program	1
16		284764	→ Inductor, Input 180uh, 70 Amps, E80 x 20 40u Xflux, 43T	1
17		288778	→ Assembly, Resistor	1
18		288203	→ Filter, Output And Voltage Feedback	1
/	R6	289979	→ Resistor, WW 2k Ohm 5% Chasis Mount	1
19		35704	→ Rectifier, Integ Bridge 40. Amp 800V	1
20	FM2, FM3	297167	→ Dual Fan, Muffin 12 Vdc 14900 Rpm 180 Cfm	1
21	T3	296250	→ Xfmr, 24 Volt	1
22		288437	→ Plate, Bus Secondary	1
23		288438	→ Bus Bar, Output	1
24		288436	→ Insulator, Mylar Secondary	1
25		216366	→ Bushing, Snap-In Nyl .500 Id x .625 Mtg Hole	6
26		30170	→ Bushing, Snap-In Nyl .750 Id x 1.000 Mtg Hole	1
27		289879	→ Bushing, Snap In Rubber .66 Id x .75 Mtg Hole	2

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297809-B

Generator Assembly

Generator Assembly

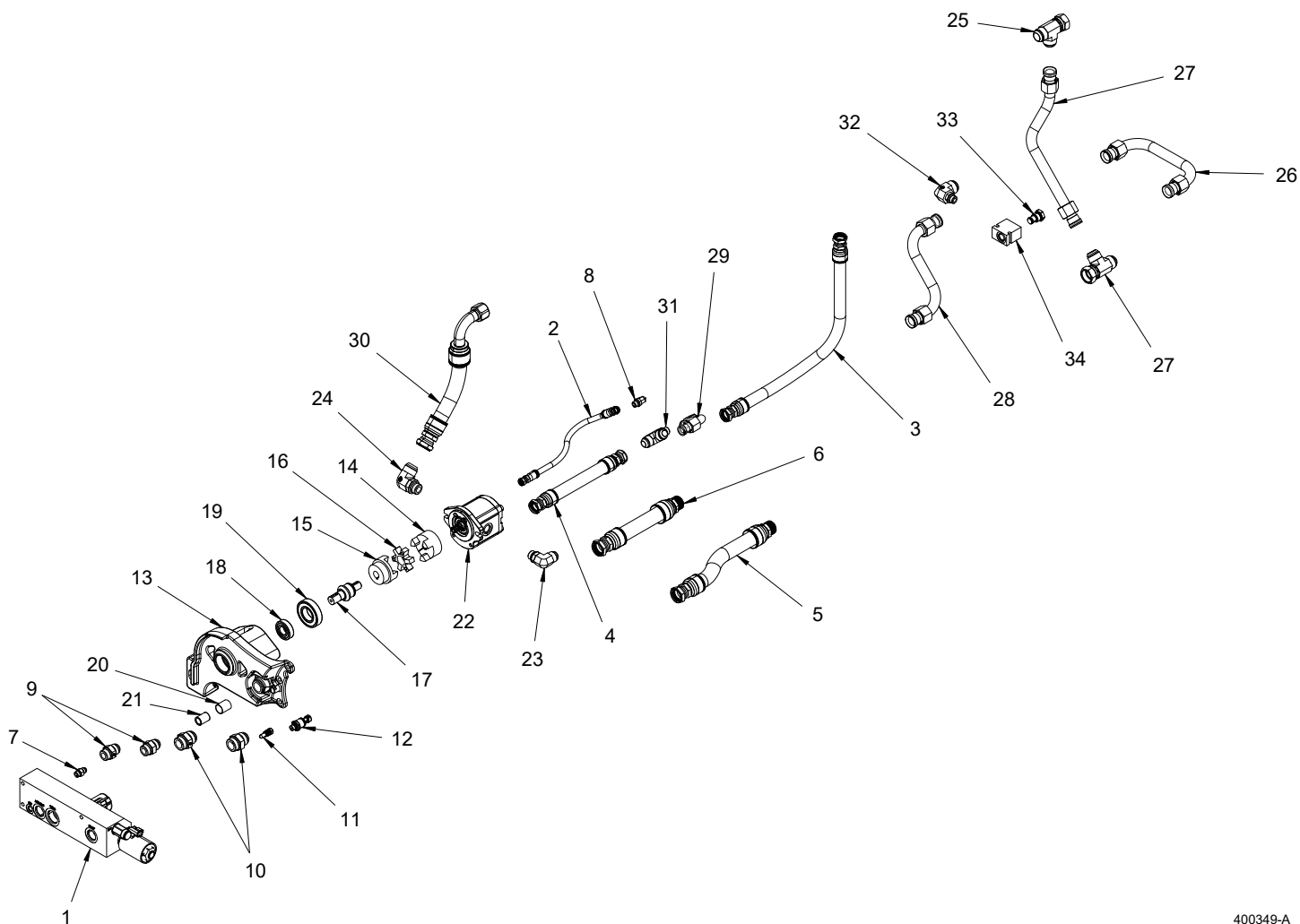
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		297809	↓ Assy, Generator	1
1		298420	→ Stator, Generator	1
2		297808	→ Rotor, Generator	1
/		209004	→ Fan, Rotor Gen	
/		287285	→ Bearing, 62/22 22 x 50 x 14 w/5k	
3		287249	→ Endbell, W/Clutch Mount	1
4		287285	→ Bearing, 62/22 22 x 50 x 14 w/5k	1
5		207323	→ Ring, Rtnng Int 2.000 Groove Dia x .064 Thk	1
6		289214	→ Screw, .250-20 x 1.200 Hexwhd Gr5 Pld	4
7		287272	→ Support, Generator Bearing	1
/		157043	→ Tubing, Corrugated Plastic Slit .250 Dia x 12.000	1
/		288890	→ Tubing, Corrugated Plastic Slit .250 Dia x 24.000	1
/		299365	→ Tubing, Corrugated Plastic Slit .625 Dia x 37.000	1
8		288913	→ Bracket, Mtg Brush Holder	1
* 9		493509	→ Brushholder Assy, Generator	1
10		216366	→ Bushing, Snap-In Nyl .500 Id x .625 Mtg Hole	1
* 11		261014	Clutch, Electro Magnetic 12 Vdc w/6.25 Dia Pulley	1
12		287240	Coupler, Clutch Shaft	1
13		287239	Pulley, 8 Rib Clutch-Mounted	1
13		287337	Pulley, 8 Rib Main Drive Cast Iron	1
/		293515	Key, Stl .250 x .250 x .750 Form A Class 2 Fit	1

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400349-A

Hydraulic System Assembly (265 and 325)

Hydraulic System Assembly (265 and 325)

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		400379	↓ Assy, Motor/Manifold HDI 325 AP	
/		400349	↓ Assy, Motor/Manifold HDI 265 AP	
1		296927	→ Assy, Hydraulic Manifold	1
2		299474	→ Hose, 3/8" Case Drain	1
3		298709	→ Hose, 3/4" Compressor Air	1
4		298691	→ Hose, 3/4" Motor Pressure	1
5		298899	→ Hose, 1" Bypass	1
6		297558	→ Hose, 1" Cooler Return	1
7		299472	→ Fitting, 3/8" Sae to Jic	1
8		299473	→ Fitting, 3/8" Sae to Jic Elbow	1
9		297086	→ Fitting, 3/4" Sae to Jic	2
10		297087	→ Fitting, 1" Sae to Jic	4
11		296950	→ Thermistor, Temp Wire Lead 1/4 Npt	1
12		287248	→ Sensor, Pressure 0 5k Psi	1
13		298675	→ Bracket, Motor Mount Bearing Housing	1
14		298682	→ Coupler, Spline Bore 3 Jaw	1
15		298685	→ Coupler, Key Bore 3 Jaw	1
16		298687	→ Spider, Hytrel 3 Jaw Coupler	1
/		298693	→ Key, Stl .187 x .187 x 1.000	1
17		298692	→ Shaft, Drive Pulley Coupler	1
/		143220	→ O-Ring, 2.859 Id x .139 Cs 70 Duro Viton	1
18		287285	→ Bearing, 62/22 22 x 50 x 14 w/5k	1
19		53390	→ Bearing, Ball Rdl Sgl Row 35 x 72 x 17	1
20		288786	→ Bearing, Solid Plastic 22mm Id 30mm Long	1
21		288844	→ Sleeve, Tensioner Shaft	1
22		299476	→ Motor, 19cc Case Drain Gear (HDI 325)	1
22		299475	→ Motor, 14CC Case Drain Gear (HDI 265)	1
23		297088	→ Fitting, 5/8" Sae to 3/4" Jic Elbow	1
24		297089	→ Fitting, 3/4" Sae to 1" Jic Elbow	1
25		297090	→ Fitting, 1" Jic T	2
26		297085	→ Oil Line, 1" Cooler Return Steel	1
27		298688	→ Oil Line, 3/4" Motor Pressure Steel	1
28		297084	→ Oil Line, 1" Upper Bypass Steel	1
29		298689	→ Oil Line, 1" Bypass Steel	1
30		298690	→ Hose, 1" Motor Return	1
31		298915	→ Fitting, 1/2" Sae to 3/4" Jic Tee	1
32		298916	→ Fitting, 1/2" Sae to 1" Jic 90 Elbow	1
33		298914	→ Valve, Anti-Cav Check	1
34		298917	→ Body, Valve 08 3-Way	1
/		286721	→ Screw, .437-14 x 1.00 Hex Flange Hd .93D Gr8 Pld	2
/		296476	→ Ring, Rtng Int 72mm Dia x 2.5mm Thk	1

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Air Compressor Assembly

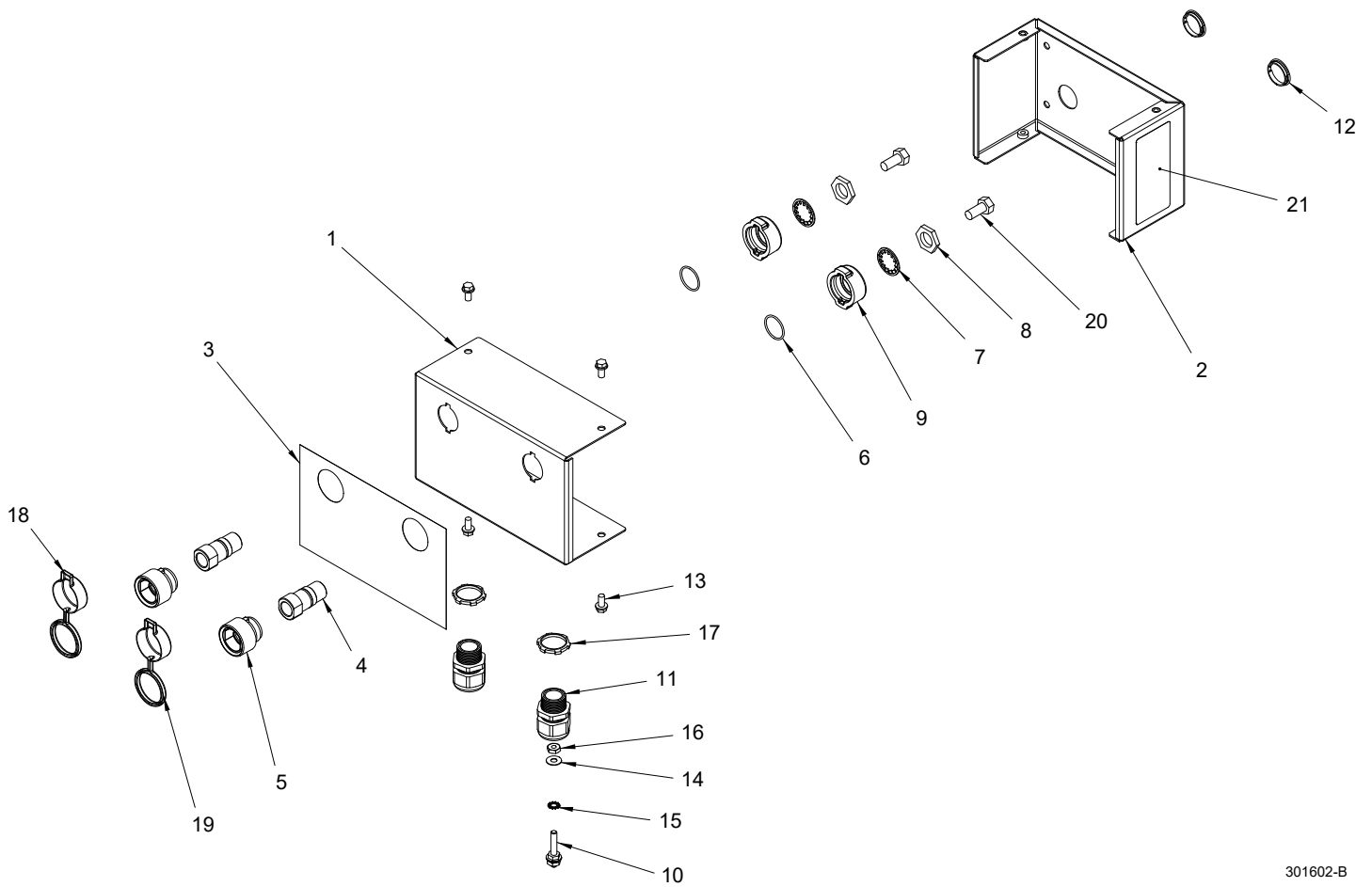
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		296744	Assy, Compressor EVO2-NK ALM	1
/		265971	Filter Assy, Compressor w/Element (Service)	1
* /		279123	↓ Filter/Separator Kit, Compressor w/Oil (Service)	1
* /		262573	→ Filter, Inlet Air Air Compressor (Service)	1
* /		276620	→ Oil, Air Compressor Rotary Screw (Synthetic) (Quart)	1
* /		232207	→ Filter, Oil Air Compressor	1
* /		232209	→ Separator, Oil/Air Rotary Screw Compressor	1
/		278384	Kit, Thermostat (Service)	1
/		278377	Valve, KD Intake (Service)	1
* /		275402	Valve, Minimum Pressure Check	1
/		242850	Cap, Oil Fill Compressor (Service)	1
/		290769	Compressor, Blow Down Solenoid (Service)	1
/		290919	O-Ring, Compressor Endplate (Service)	1
/		290770	Compressor, End Plate (Service)	1
/		286169	Kit, Shaft Seal Replacement (Service)	1
/		265971	Filter Assy, Compressor w/Element (Service)	1
/		296744	↓ Assy, Compressor EVO2-NK ALM	
1		296743	→ Compressor, Air Rotary Screw EVO2-NK Alm	1
2		287296	→ Plate, Mtg Tensioner	1
3		261020	→ Tensioner, Belt w/Pulley 6 Rib	1
4		287294	→ Valve, Proportional	1
5		261094	→ Gauge, Pressure 1-1/2 0-300 Psi 1/8 Npt Rear Mt	1
6		274545	→ Valve, Pressure Relief 1/8 In Inlet 225 Psi	1
7		281876	→ Transducer, Pressure 200 Psi	1
8		281875	→ Thermistor, Temp Wire Lead 1/4 Fast-On M10 x 1.0	1
9		229830	→ Ftg, Adapter Stl 3/8 Bspp (M) x 1/2 Jic 37 Deg	3
10		290247	→ Ftg, Stl 90 Deg 1/2 Bspp(M/S) X Jic 12(M)	1
11		249370	→ Ftg, Adapter Stl 1/4 Bspp (M) x 1/8 Npt (F) w/Seal	1
12		272683	→ Ftg, Pipe Brs Elbow 90 Deg Street 1/8 Npt	1
/		288992	→ Hose Assy, Compressor Drain	1
13		289279	→ Screw, 010-32 x .50 Soc Hd-Hex Gr8 Zinc	2
14		262438	→ Screw, M10-1.5 x 16 Soc Btn Hs Pln 88	1
15		89679	→ Screw, M10-1.5 x 55 Hex Hd-Pln 8.8 Pld	1
16		602203	→ Washer, Lock .193 Id x 0.334 Od x 0.47T Stl Pld Split #10	2
17		299183	→ Washer, Flat Bonded Seal SS .275 Id / .75 Od	1
18		271506	→ Washer, Flat Bonded Seal 3/8 Bspp	1
19		270205	→ Washer, Flat Bonded Seal 1/2 Bspp	1
20		83883	→ Washer, Lock .402 Id x 0.709 Od x .087T Stl Pln Split 10mm	1
21		602243	→ Washer, Flat Stl Std .375	1
/		279814	→ Tubing, Corrugated Plastic Slit .250 Dia x 4.000	1
22		297408	→ Assy, Cartridge Heater w/Connector	1
23		119493	→ Screw, 006-32 x .37 Rnd Hd-Phl Stl Pld	2
24		290336	→ Assy, Immersion Heater w/Con. Plug	1

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+ When ordering a component originally displaying a precautionary label, the label should also be ordered.

Hardware is common and not available unless listed.

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301602-B

Remote Panel Assembly (Weld Remote Panel)

Remote Panel Assembly (Weld Remote Panel)

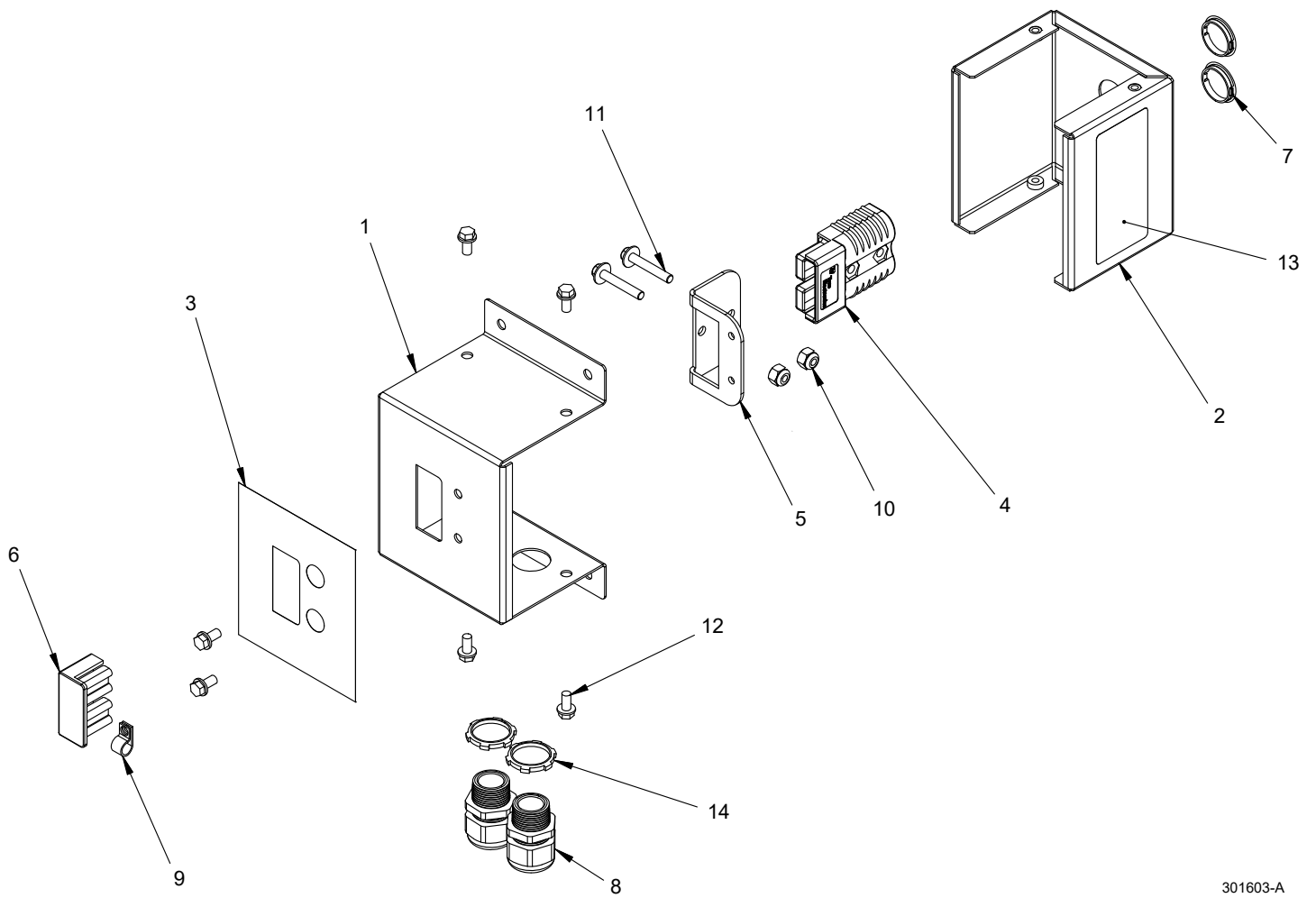
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		301602	Assy, Remote Panel	
1		285205	Panel, Front Remote Weld	1
2		285206	Box, Remote Weld	1
3		288706	Label, Nameplate Remote Weld	1
4		267366	Receptacle, Twist Lock Tweco .890 Od w/O-Ring	2
5		250037	Insulator, Bulkhead Front .890 Od	2
6		185718	O-Ring, 0.989 Id x 0.070H	2
7		185714	Washer, Tooth 22mm Id x 31.5mm Od 1.310-1mmT Intern	2
8		185717	Nut, M20-1.5 1.00Hex .19H Brs Locking	2
9		250039	Insulator, Bulkhead Rear .890 Od	2
10		197203	Grounding Stud Assy, Brass	1
11		201155	Bushing, Strain Relief .450/.709 Id x 1.068 Mtg Hole	2
12		272495	Blank, Snap In Nyl 1.093 Mtg Hole Black	2
13		602154	Screw, .250-20 x .50 Hexwhd .50D Stl Pld Slffmg Tap-Rw	4
14		010915	Washer, Flat .257 Id x 0.640 Od x .031T Brs	1
15		602208	Washer, Tooth .256 Id x 0.510 Od x .028T Stl Pld Ext .250 A	1
16		601836	Nut, .250-20 50 Hex .19H Brs	1
17		198245	Nut, Conduit .750 Npt Pld 1.388 Od x .150 Thk	2
18		278306	Cover, Tweco (Red)	1
19		278307	Cover, Tweco (Black)	1
20		229333	Screw, M10 - 15 x 20 Hex Hd-Pln 8.8 Pld Sems	2
21		287064	Label, Warning Electric Shock	1

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301603-A

Remote Panel Assembly (Battery Charge)

Remote Panel Assembly (Battery Charge)

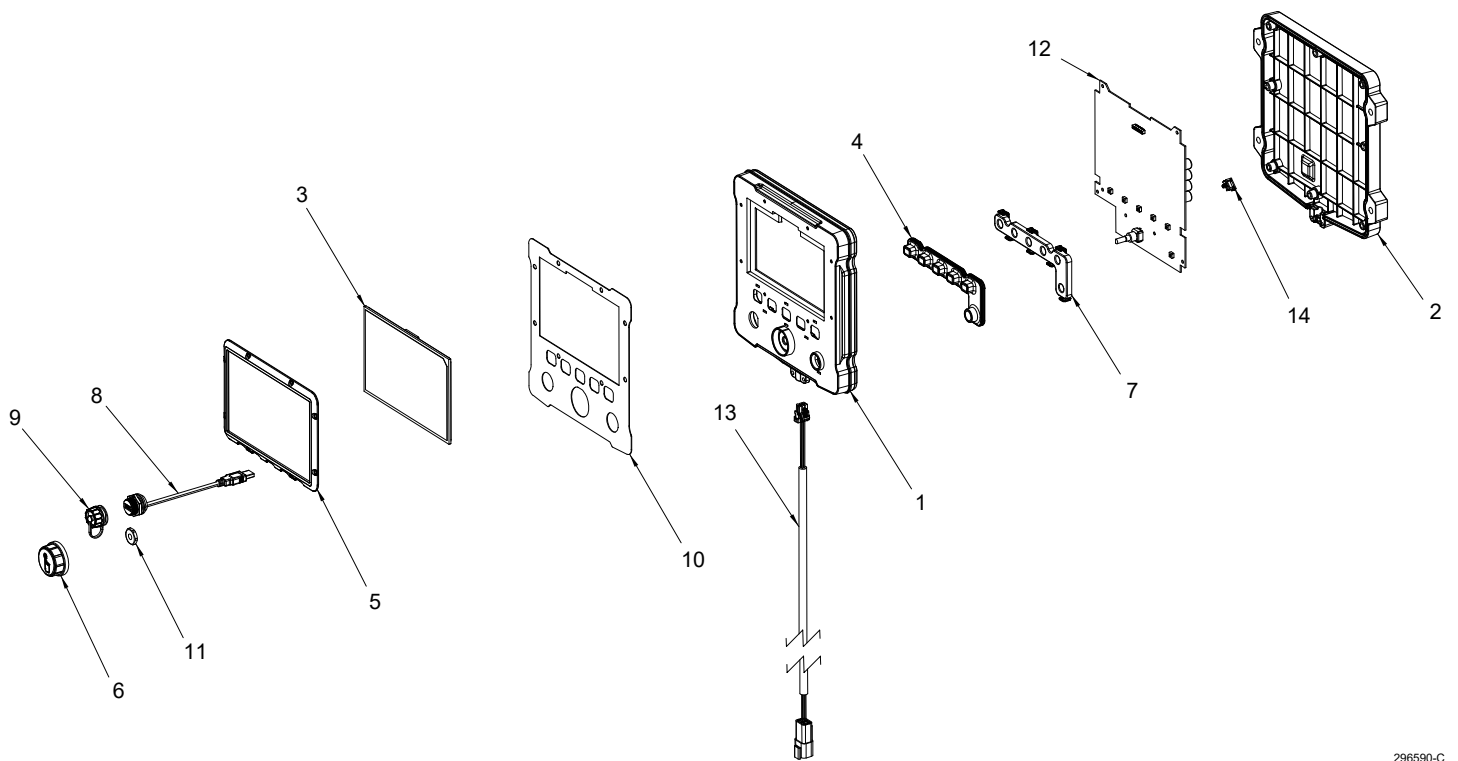
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		301602	Assy, Remote Panel	
1		288663	Panel, Front Remote Battery Charge	1
2		288664	Box, Remote Battery Charge	1
3		288705	Label, Nameplate Remote Battery Charge	1
4		231162	Housing, Rcpt Battery Charger 175 Amp Black	1
5		231447	Bracket, Mtg Battery Charger Rcpt	1
6		231927	Dust Cover, 2 Pole Housing	1
7		272495	Blank, Snap In Nyl 1.093 Mtg Hole Black	2
8		201155	Bushing, Strain Relief .450/.709 Id x 1.068 Mtg Hole	2
9		260506	Clamp, Stl Cush .375 Dia x .281 Mtg Hole	1
10		604318	Nut, .250 20 50Hex 39H Stl Pld Elastic Stop Nut	2
11		108943	Screw, .250-20 x 1.50 Hedwhd.61D GR5 Pld	2
12		602154	Screw, .250-20 x .50 Hexwhd .50D Stl Pld Slffmg Tap-Rw	6
13		287064	Label, Warning Electric Shock	1
14		198245	Nut, Conduit .750 Npt Pld 1.388 Od x .150 Thk	2

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296590-C

UI Assembly

UI Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		296590	↓ Assy, User Interface LCD	
1		296591	→ Enclosure, Remote Control Panel, Front	1
2		296592	→ Enclosure, Remote Control Panel, Rear	1
3		291551	→ Display, LCD	1
4		290780	→ Button, LCD	1
5		290781	→ Trim, Display LCD	1
6		287770	→ Knob, Encod 1.670 D x .250 Id Push On w/Spring	1
7		290782	→ Frame, Button Mtg	1
8		291466	→ Cable, Usb 2.0 A-A Male 200mm Panel-Mount Ip-67	1
9		286625	→ Cable, Usb Cap Panel-Mount Ip-67	1
10			→ Nameplate, Remote Control Panel (Order by Model and Serial No.)	1
/		294247	→ Screw, KA30 x 12 Pan Hd Phillips Type Pt Black	8
/		145217	→ Screw, K40 x 12 Pan Hd-Phl Stl Pld Pt Thread Forming	4
/		136343	→ Screw, K50 x 20 Pan Hd-phl Stl Pld Pt Thread Forming	8
11		287951	→ Nut, M8 x .75 .750 Hex .17h Brs	1
/		217934	→ Screw, K40 x 20 Pan Hd-Trx Stl Pld Pt Thread Forming	2
12	PC7	296501	→ Circuit Card Assy, Interface Lcd w/o Gnd w/Program	1
13		296987	→ Harness, UI LCD	1
14		292568	→ Clamp, Releasable .236 x .354, .138 Dia Mounting	1

*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

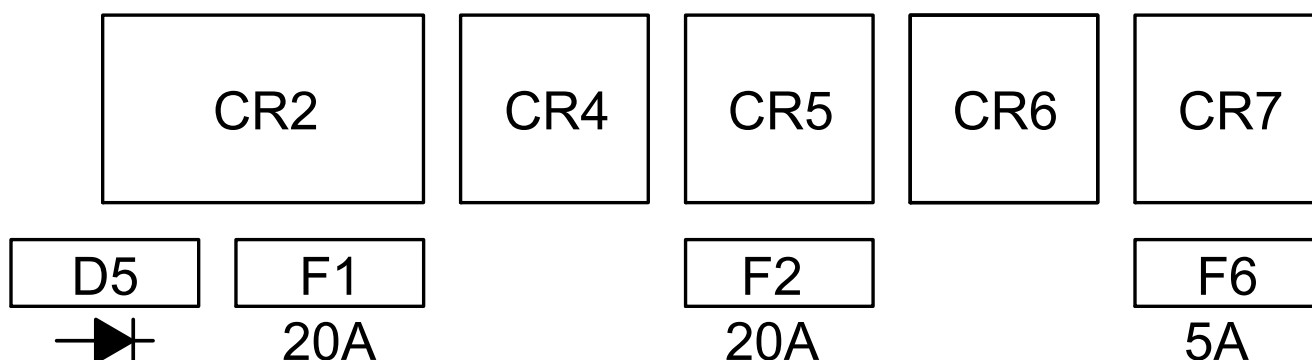
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CR2 - Engine Speed Relay
 CR4 - Comp Clutch Relay
 CR5 - Valve/Gen/Clutch Control
 CR6 - Weld Module Relay
 CR7 - Safety Interlock Relay

D5 - Blocking Diode
 F1 - Battery Supply
 F2 - Battery Supply
 F6 - Can Bus Power



298590-A

Fuse Block

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		285864	Bracket, Fuse Block Holder	1
/	CR4-CR7	281755	Relay, Encl 12 Vdc Spst 20A Skt Mtg	4
* /	F1, F2	281760	Fuse, Mini Blade Atm 20. Amp 32 Volt	2
* /	F6	281758	Fuse, Mini Blade Atm 5. Amp 32 Volt	1
/	CR2	283807	Relay, Encl 12 Vdc Nc/No 20A/14 Vdc Skt Mtg	1
/	D5	286804	Diode, Mini Blade	1

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		296722	↓ Harness, Wrg Unit	1
/		286805	→ Module, Fuse/Relay CPA 96 Pin	1
/		215432	→ Seal, Cable Plug Packard	4
/		237888	→ Seal, Conn Weather Pack Green	57
/		253060	→ Seal, Cavity Plug Weather Pack Green	35
/		298698	→ Lead Assy, Elect	1
/		298700	→ Lead Assy, Elect	1
/		298107	→ Lead Assy, Twisted Pair	1
/		298109	→ Lead Assy, Twisted Pair	1
/		299400	→ Lead Assy, Twisted Pair	1
/		299150	→ Lead List, Large	1
/	CR8	173069	→ Relay, Encl 12 Vdc Spdt 30A/20A 5 Pin Flange Mtg	1
/		282225	→ Conn, Male (Service Kit 295850)	1
/		282227	→ Gasket, Seal 4-5 (mm)	2
/		282228	→ Gasket, Seal 16-22 (mm)	1
/		281475	→ Conn, Rect Mini Tpa2 6Pin 2Row Rcpt Blk Cable Lkg (Service Kit 293753)	1
/	PLG89	237887	→ Conn, Body 2 Pin Weather Pack (No Service Kit)	1
/		212116	→ Conn, Deutsch 2P 1Row Female Plug (Service Kit 246948)	3
/		212117	→ Conn, Deutsch Wedge Lock 2 Position	3
/	PLG83, 85	240032	→ Conn, Body 150 Series 3 Pos M/P Female Terms Sealed(No Service Kit)	2
/		240033	→ Conn, Skt 150 Series M/P 18-20Ga .08-.10 Od	6
/	RC86	290139	→ Conn, Deutsch 4P 2Row Rcpt Flange Mnt (No Service Kit)	1
/	RC37	239441	→ Conn, Deutsch 4P 2Row Rcpt (No Service Kit)	1
/		239442	→ Conn, Deutsch Wedge Lock 4 Position	2
/	RC87-88	288514	→ Conn, Deutsch 6P 2Row Rcpt Flange Mnt (No Service Kit)	2
/		239115	→ Conn, Deutsch Wedge Lock 6 Position	2
/		215343	→ Seal, Plug Deutsch 12-16 Size	12
/		238028	→ Conn, Deutsch 6P 2Row Female Plug (284615)	2
/		238029	→ Conn, Deutsch Wedge Lock 6 Position	2
/		281485	→ Clip, Retainer Mini Tpa2 Nat 2 Ckt Housing	2
/		281451	→ Conn, Rect Mini Tpa2 8skt 2Row Plug Blk Cable Lkg (Service Kit 293987)	2
/		281487	→ Clip, Retainer Mini Tpa2 Nat 4 Ckt Housing	5
/		281449	→ Conn, Rect Mini Tpa2 4skt 2Row Plug Blk Cable Lkg (Service Kit 293985)	1
/		281448	→ Conn, Rect Mini Tpa2 2skt 2Row Plug Blk Cable Lkg (Service Kit 293984)	2
/		281484	→ Clip, Retainer Mini Tpa2 Nat 1 Ckt Housing	4
/		281470	→ Conn, Rect Mini Tpa2 4skt 1Row Plug Blk Cable Lkg (Service Kit 293991)	1
/		281453	→ Conn, Rect Mini Tpa2 12skt 2Row Plug Blk Cable Lkg (Service Kit 293989)	1
/		281489	→ Clip, Retainer Mini Tpa2 Nat 6 Ckt Housing	2
/	PLG32	294273	→ Conn, Rect Mini Tpa2 14skt 2row Plug Blk Cable Lkg (No Service Kit)	1
/	PLG36	294275	→ Conn, Rect Mini Tpa2 16skt 2row Plug Blk Cable Lkg (No Service Kit)	1
/		279170	→ Plug, Cable (Comes On 274509 & 279286)	1
/		288309	→ Alarm, Piezo Slow Pulse 12Vdc Fast-On Tabs	1
/		281486	→ Clip, Retainer Mini Tpa2 Nat 3 Ckt Housing	2

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		282230	→ Term, Female Fast-On	1
/		234626	→ Conn, Pushin Skt 14-16 Ga	2
/		282226	→ Term, Female Fast-On	2
/		215418	→ Term, Skt 3.0 M/P Feml Sealed	2
/		286807	→ Module, Fuse/Relay Tpa	6
/		192169	→ Conn, Rect 250 1skt 1Row Plug Cable Lkg	1
/		270219	→ Wire, Strd 16Ga Wht 600V 150C 26 x 30 Xlpe .119 Od	8.667
/	RC212	168844	→ Conn, Rect Univ 084 4P/S 1row Rcpt Cable/Panel Lkg (No Service Kit)	1
/	PLG21	114063	→ Conn, Rect Univ 084 4P/S 1Row Plug Cable Lkg (Service Kit 136810)	1
/		200303	→ Cable Tie, .750-1.500 Bundle Dia Reel	40
/		294271	→ Clip, Retainer Mini Tpa2 Nat 7 Ckt Housing	2
/	RC81	113634	→ Conn, Rect Univ 084 6P/S 3Row Rcpt Cable/Panel Lkg (Service Kit 116045)	1
* /	F1, F2	281760	→ Fuse, Mini Blade Atm 20. Amp 32 Volt	2
* /	F6	281758	→ Fuse, Mini Blade Atm 5. Amp 32 Volt	1
/		294272	→ Clip, Retainer Mini Tpa2 Nat 8 Ckt Housing	2
/		284781	→ Harness, Wrg Unit Inverter	1
/		288190	→ Lead List, Small	1
/		117865	→ Conn, Rect Mini 045 14skt 2row Plug Cable Lkg (Service Kit 131056)	1
/		281452	↓ Conn, Rect Mini Tpa2 10skt 2Row Plug Blk Cable Lkg (Service Kit 293988)	1
/		281488	→ Clip, Retainer Mini Tpa2 Nat 5 Ckt Housing	2
/	PLG68	281450	→ Conn, Rect Mini Tpa2 6skt 2Row Plug Blk Cable Lkg (Service Kit 293986)	1
/		281486	→ Clip, Retainer Mini Tpa2 Nat 3 Ckt Housing	2
/		200303	→ Cable Tie, .750-1.500 Bundle Dia Reel	2

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