



PM- 215234 4425D

Big Blue 400D and Big Blue 500 X Deutz



PARTS MANUAL



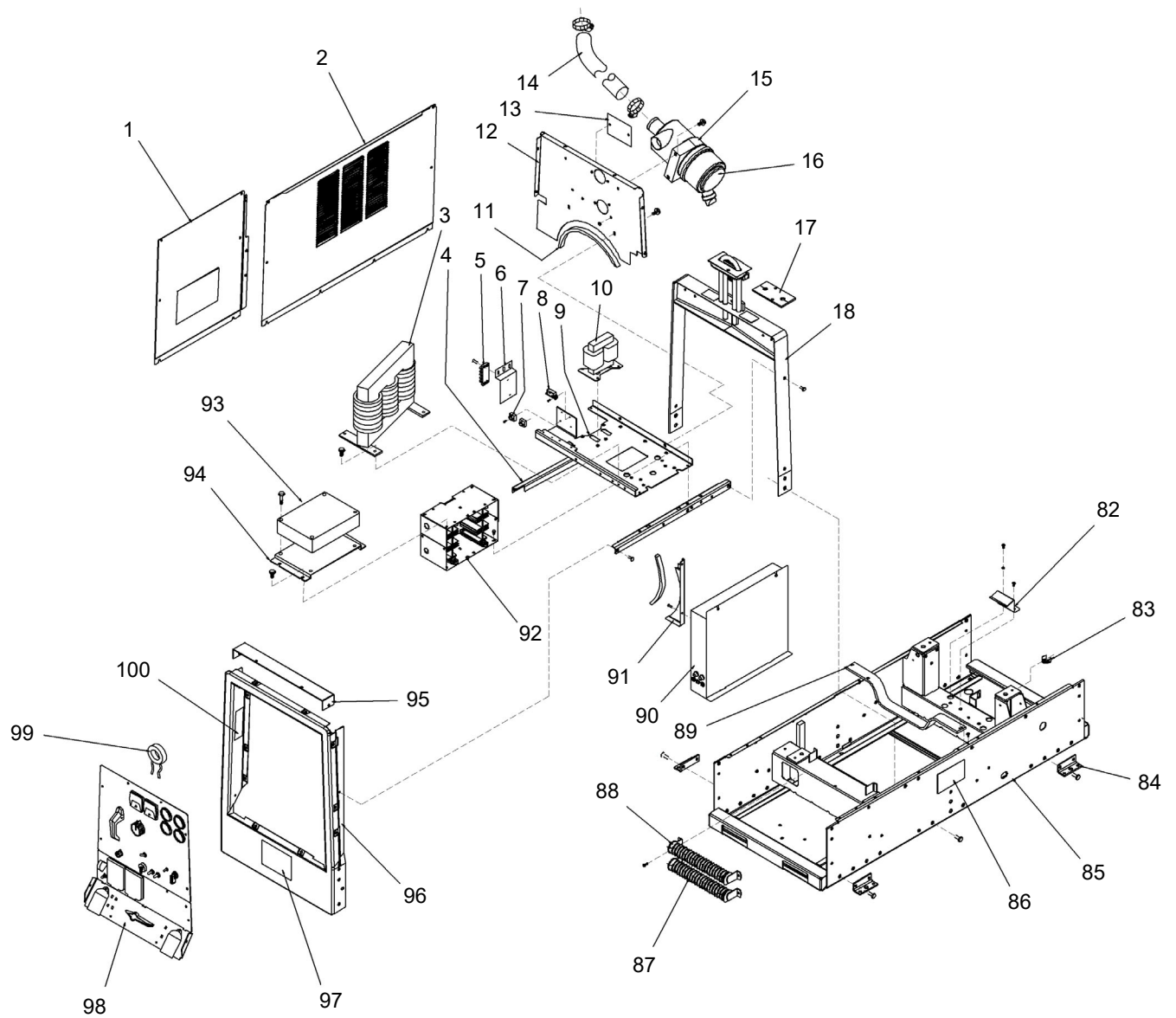
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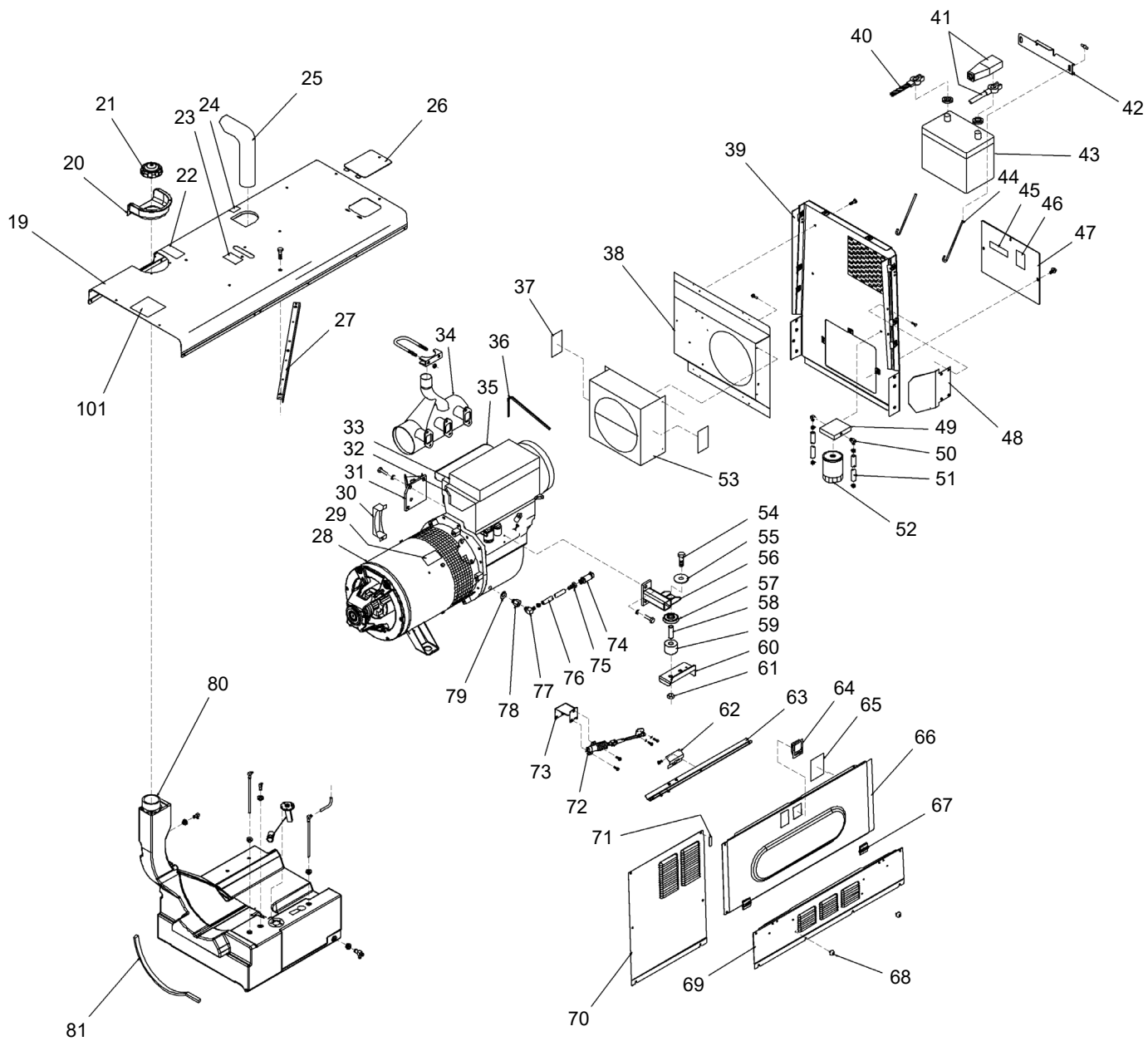
Effective with Serial Number
LE028711 - MG060004E



PARTS MANUAL



Main Assembly



Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		189824	Panel, Gen Lh	1
1		~ 199294	Panel, Gen Lh Ss	1
2		+ 189828	Panel, Engine Side	1
2		+ 252811	Panel, Engine Side	1
2		+~199301	Panel, Engine Side Ss	1
3	Z1	214972	Reactor, Ac (CC)	1
3	Z1	214964	Reactor, Ac (CV)	1
4		206352	Brace, Front To Center Upright	2
5	1T	038621	Block, Term 30A 4 Pole Frict Term Str	1
/		038620	Link, Jumper Term Blk 30A	2
6		081499	Bracket, Mtg Strip Terminal	1
7	SR4, SR5	035704	Rectifier, Integ Bridge 40. Amp 800V	2
8	CB4	045061	Circuit Breaker, Auto Reset 24 Vdc 7 Amp	1
9		201697	Pan, Reactor And Rectifier	1
10	T1	201613	Transformer w/Bracket	1
* 10	T1	~ 205636	Transformer w/Bracket (Environmental Coating)	1
11		263422	Extrusion, Rubber Clamp/Bulb 21.000 Lg (Order by Ft)	3
12		189708	Firewall, Top	1
13		191307	Cover, Blank	1
14		191829	Hose, Air Intake	1
15		189763	Bracket, Mtg Air Cleaner	1
16		189764	Air Cleaner, Intake	1
* /		192938	Filter, Air Element Primary	1
* /		~ 192939	Filter, Air Element Safety	1
17		189464	Seal, Weather Lift Eye	1
/		173909	Hose, Sae .312 Id x .560 Od x 24.000 (Order by Ft)	2
18		201658	Upright, Center Assy	1
19		+ 201934	Cover, Top	1
19		+ 263316	Cover, Top	1
19		+~202640	Cover, Top Ss	1
20		189052	Grommet, Plastic Neck Filler Fuel	1
21		254678	Cap, Tank Screw-on 3.500 In w/Vent w/Lanyard 8 In	1
22		192041	Label, Use Diesel Fuel Only	1
22		272338	Label, Use Diesel Fuel Only (En/Fr-Sym)	1
23		108487	Label, Warning Falling Equipment	2
23		222513	Label, Warning Falling Equipment Can Cause Serious	2
23		272339	Label, Warning Falling Equipment (En/Fr/Sp-Sym)	2
24		176230	Label, Warning Hot Exhaust	1
24		269515	Label, Warning Hot Parts	1
24		272333	Label, Warning Hot Parts (En/Fr/Sp-Sym)	1
25		105734	Pipe, Muffler Extension Elbow 1.750 Od	1
25		201592	Pipe, Exhaust (Export Models)	1
/		010875	Clamp, Muffler 2.000 Dia U Pld	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
26		201851	Cover, Radiator Access	1
26		234509	Cover, Radiator Access	1
27		191354	Support, Cover	1
27		202633	Support, Cover E-Coat	1
28		Generator	(See following for subassembly information)	1
29		013367	Label, Warning Moving Parts	2
29		225120	Label, Warning Moving Parts Can Cause Injury	2
29		272334	Label, Warning Moving Parts (En/Fr/Sp-Sym)	2
30		191577	Guard, Starter Deutz	1
31		197370	Bracket, Mtg Engine Lh F3L1011	1
32		190951	Edge Trim, Style T1750-B2 x 1/16 Black w/Clips 1.625	1
33		197639	Baffle, Air	1
34		200731	Manifold, Exhaust Muffler	1
35		213878	Engine, Deutz Dsl Elec F3L2011	1
35		237004	Engine, Deutz Dsl Elec D2011L03i	1
35		251366	Engine, Deutz Dsl Elec D2011I03i	1
35		261639	Engine, Deutz Dsl Elec D2011L03i (Flex)	1
* /		067265	Oil Filter	1
* /		192744	Filter, Fuel Spin-On	1
* /		066217	Filter, Fuel Secondary (Deutz F4L2011 engine)	1
* /		195745	Switch, Oil Pressure	1
* /		195746	Sender, Coolant	1
/		~ 207847	Heater, Oil Pan 120V 300W 22mm x 15 Metric Thd	1
/		289162	Holder, Fuse Mega Flex	1
/		289161	Fuse, 80 Amp	1
/		179561	Extrusion, Rubber Clamp/Bulb 2250 Lg	1
/		179562	Extrusion, Rubber Clamp/Bulb 3000 Lg	1
* 36		216959	Belt, Blower	1
37		147923	Label, Warning Moving Parts	2
37		225120	Label, Warning Moving Parts Can Cause Injury	2
37		272334	Label, Warning Moving Parts (En/Fr/Sp-Sym)	2
38		201714	Box, Air Intake	1
39		201748	Upright, Rear Air Cooled	1
39		~ 202638	Upright, Rear Ss	1
40		190206	Cable, Bat Neg 42.000 No 1 Awg w/Clamp & .400 Rng	1
41		190207	Cable, Bat Pos 45 In Lg No 1 Awg w/Clamp & .400 Rng	1
42		261852	Bracket, Battery Holddown	1
42		266385	Bracket, Battery Holddown	1
43	BATT		Battery, Stor 12v 650crk 110rsv Gp 24	1
44		201006	Bolt, J Stl .312-18 x 8.500 Pld	2
/		208041	Spacer, Stl .323 Id x .625 Od x .141 Thk	2
/		264924	Bracket, Battery Locator Adj	1
45		168385	Label, Warning Battery Explosion Can Blind	1

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Item No.	Dia. Mkgs.	Part No.	Description		Qty
45		272341	Label, Warning Battery Explosion (En/Fr/Sp-Sym)	MF510042E - MG060004E	1
46		147923	Label, Warning Moving Parts	LE028711 - LF310973	2
46		225120	Label, Warning Moving Parts Can Cause Injury	LF310974 - MF510041E	2
46		272334	Label, Warning Moving Parts (En/Fr/Sp-Sym)	MF510042E - MG060004E	2
47		+ 201183	Cover, Battery Access		1
47		202639	Cover, Battery Access Ss		1
48		+ 215252	Guard, Belt		1
49		206297	Base, Fuel Filter Assy		1
50		145282	Fitting, Hose Brs Barbed Elbow M 5/16Tbg x 1/4Npt		2
51		196465	Hose, Sae .312 Id x .560 Od x 23.00		1
/		200032	Hose, Sae .312 Id x .560 Od x 38.000		1
* 52		192744	Filter, Fuel Spin-On		1
53		+ 201715	Box, Air Intake Extension		1
54		199849	Screw, .625-11 x 4.00 Hex Hd-pln Gr5 Pld		4
55		071731	Washer, Flat .656 Id x 2.250 Od x .187T Stl Pld		4
56		197366	Bracket, Mtg Engine Rh Deutz F3L1011		1
57		071890	Retainer, Mount Eng/Gen		4
58		071730	Tubing, Stl .875 Od x 12Ga Wall x 2.500		4
59		083476	Mount, Eng/Gen Nprn .875 Id x 2.500 Od x 2.000 60 Dur		4
60		197373	Bracket, Support Base Rh F3L1011		1
61		135205	Nut, .625-11 .94 Hex .77H Stl Pld Elastic Stop Nut		4
62		190992	Keeper, Latch Engine Access Door		1
63		190076	Channel, Stiffener Engine Access		1
63		~ 202635	Channel, Stiffener Engine Access E-Coat		1
64		245362	Latch, Paddle Series 20 (Black) (400 Pro Models)		1
65		215233	Label, Diesel Engine Maintenance Deutz (Wordless Label)	LE028711 - LJ150080E	1
65		237352	Label, Maintenance Big Blue Deutz Series	LJ150081E - MG060004E	1
66		+ 200989	Door, Engine Access		1
66		+ 210736	Door, Engine Access Ss		1
67		189975	Hinge, Door Access 180 Deg		2
68		208141	Stop, Door	LE028711 - MC250041E	2
68		254634	Bumper	MC250042E - MG060004E	2
69		269531	Panel, Rocker		1
69		199298	Panel, Rocker Ss		1
70		189827	Panel, Gen Rh		1
70		199300	Panel, Gen Rh Ss		1
71		191626	Bumper, Door Access Engine		2
72	TS1	~ 297316	Idle, Solenoid Assy		1
73		173929	Bracket, Mtg Solenoid	LE028711 - LE132785	1
73		219229	Bracket, Mtg Solenoid (Deutz F4L2011 engine)	LE132786 - ME390145E	1
73		269216	Bracket, Mtg Solenoid	ME390146E - MG060004E	1
/		199505	↓ Hose, Oil Drain 32.000 Lg		1
74		165271	→ Valve, Oil Drain 3/8-18Nptf		1

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Item No.	Dia. Mkgs.	Part No.	Description	Qty
75		176529	→ Fitting, Hose Brs Barbed Fem 1/2Tbg x 3/8 Npt	1
76		269052	→ Hose, Nitrile .500Id x .765 Od x Roll Blk Brd (Order by Ft)	2666
77		176528	Fitting, Hose Brs Barbed Elbow Fem 1/2 Tbg x 1/2 Npt	1
78		173336	Fitting, Adapter Oil Drain	1
79			Washer, Oil Drain (Available Through Engine Manufacturer)	1
80		259019	↓ Kit, Field Fuel Tank	1
/		257007	→ Tank, Fuel	1
/		258232	→ Fuel Line Assy, w/Clamps 42.000 In	1
/		218086	→ Bracket, Holddown Fuel Tank	1
81		263420	Extrusion, Rubber w/Adhesive 41.000 Lg (Order by Ft)	6
82		196220	Bracket, Holddown Fuel Tank Rear	1
83		192362	Bracket, Mtg Nyl 1/2 Conduit	1
84		191897	Bracket, Mtg Unit	4
85		+ 262408	Base	1
85		+~203382	Base E-Coat	1
86		200864	Label, Warning Do Not Weld On Base	2
86		224266	Label, Warning Do Not Weld On Base LE028711 - MF510041E	2
86		272342	Label, Warning Do Not Weld On Base (En/Fr/Sp-Sym) MF510042E - MG060004E	2
87	R2	189699	Resistor, WW Tap 375 W 10 Ohm w/Mtg Bkt (CC)	1
88	R3	189699	Resistor, WW Tap 375 W 10 Ohm w/Mtg Bkt	1
89		191512	Bracket, Hold Down Fuel Tank LE028711 - LE028733	1
89		218086	Bracket, Holddown Fuel Tank LE028734 - MG060004E	1
90			Control Box Assembly - CC/CV Models (See following for subassembly information)	1
90			Control Box Assembly - CC Models (See following for subassembly information)	
91		189731	Firewall, Bottom	1
92			Main Rectifier Assembly (See following for subassembly information)	1
93	PC1	189143	Module, Field Current Regulator (CV)	1
94		193453	Bracket, Mtg Box Fcr (CV)	1
95		191448	Cover, Top Front Upright	1
95		~ 199305	Top, Cover Front Upright Ss	1
96		+ 201750	Upright, Front	1
96		+~202637	Upright, Front Ss	1
97		134792	Label, Warning General Precautionary LE028711 - LH170024E	1
97		233953	Label, Warning General Precautionary CSA (Domestic) LH170025E - MF510041E	1
97		272343	Label, Warning General Precautionary (En/Fr/Sp-Sym) MF510042E - MG060004E	1
98			Panel, Front w/Components - CC/CV Models (See following for subassembly information)	1
98			Panel, Front w/Components - CC Models (See following for subassembly information)	
99		202130	Xfmr, Current Sensing	1
100		212944	Label, Stick Overlap Weld Ranges	1
101		233088	Label, Danger Using A Generator Indoors Can Kill LH170025E - MF510041E	1
101		272340	Label, Danger Using Generator Indoor (En/Fr/Sp-Sym) MF510042E - MG060004E	1
/		190058	Nut, .250-20 U-Nut Multi-Thread	19
/		049525	Nut, 312-18 U-nut Multi-Thread	32

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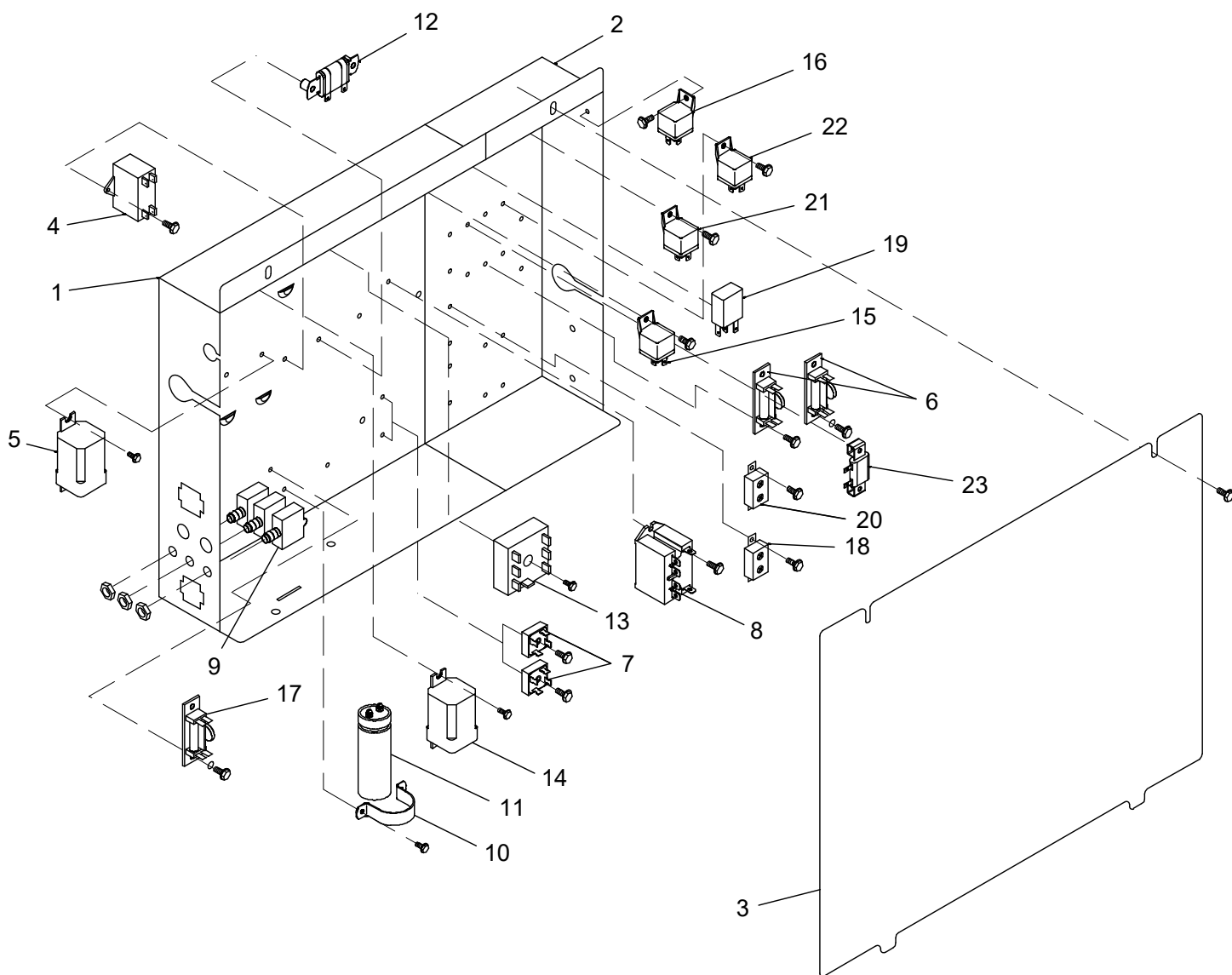
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		237013	Label, Hour/Fuel Meter Usage LE028711 - LJ350166E	1
/		238650	Label, Hour/Fuel Meter Usage LJ350167E - MG060004E	1
/		192505	Kit, Label (Includes Safety & Informational Labels) LE028711 - LF310973	1
/		201062	Kit, Label (Includes Safety & Informational Wordless Labels) (Export Models)	
/			LE028711 - LF310973	1
/		215217	Kit, Label (Includes Safety & Informational Labels) (CC Models) LF310974 - MF510041E	1
/		215240	Kit, Label (Includes Safety & Informational Labels) (CC/CV Models) LF310974 - MF510041E	1
/		216987	Kit, Label (Includes Safety & Informational Labels) (CC Export Models)	
/			LF310974 - MF510041E	1
/		216986	Kit, Label (Includes Safety & Informational Labels) (CC/CV Export Models)	
/			LF310974 - MF510041E	1

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Control Box Assembly - CC Models

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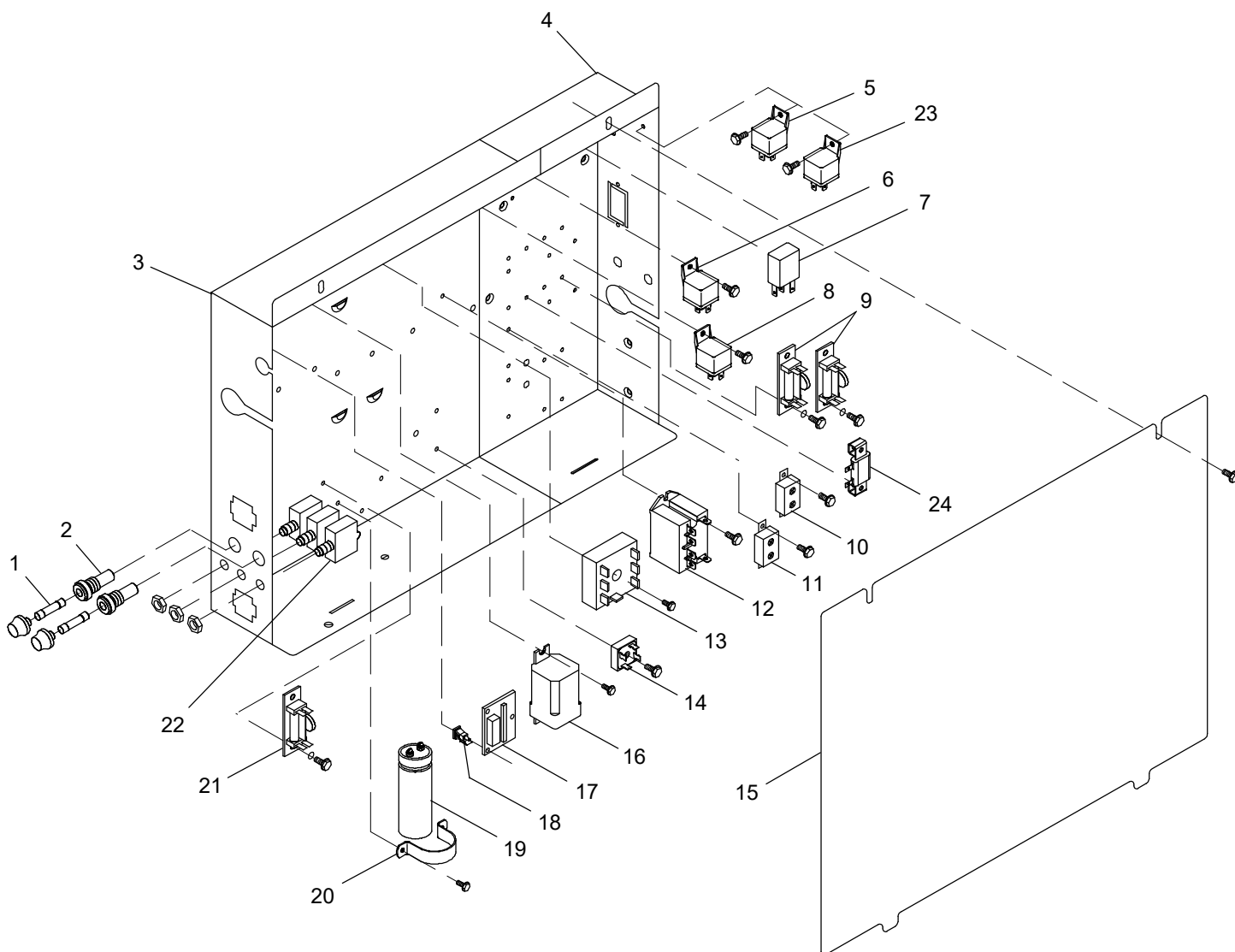
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		402132	↓ Kit, Fuse Holder BB500-800	1
* /	F1, F2	085874	→ Fuse, Mintr Cer Slo-Blo 10. Amp 250 Volt	2
1		201077	Control Box, Lh	1
2		201078	Control Box, Rh	1
3		201079	Cover, Control Box	1
4	C12	291014	Capacitor, Polyp Met Film 10. Uf 250 Vac 10%	1
5	CR7	188636	Relay, Ocv Control	1
6	D8/C8	189701	Diode/Capacitor Board	1
7	SR1, SR2	035704	Rectifier, Integ Bridge 40. Amp 800V	2
8	CR5	199999	Relay, Encl 12 Vdc Spst 30A/15 Vdc	LE028711 - LF310973 1
8	CR5	223710	Relay, Encl 12 Vdc Dpst-No 25A 6Pin Flange	LF310974 - MG060004E 1
9	CB11,12,13	139266	Supplementary Protector, Man Reset 1p 15A 250 Vac	3
10		177136	Clamp, Capacitor 1.375 Dia	1
11	C9	087110	Capacitor, Elctlt 240 uF 200 Vdc Can 1.39 Di	1
12	R6	141424	Resistor, Ww Fxd 30 W 25 Ohm Faston Te	1
13	PC7	~ 195706	Module, Pull To Idle, Two Output, 7 Pin	1
14	CR4	~ 113247	Relay, Encl 12 Vdc Dpdt 20A/120 Vac 8Pin Flange Mtg	1
15	CR6	~ 090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	1
16	CR3	~ 090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	1
17	D1/C1	189701	Diode/Capacitor Board	1
18	CB10	190374	Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1
19	CR1	214876	Relay, Encl 6 Vdc Spst 35A/14 Vdc 5 Pin	LE028711 - MB460062E 1
19	CR1	252053	Relay, Encl 12 Vdc Spst 35A/14 Vdc 5 Pin	MB460063E - MG060004E 1
20	CB14	~ 205927	Circuit Breaker, Auto Reset 12 Vdc 12 Amp	1
21	CR8	~ 197325	Relay, Encl 12 Vdc Spst 70A 4Pin Flange Mtg	1
/	TD1	214928	Timer, Delay On Make/Break Open 30 Sec 12 Vdc	LE028711 - LJ110095E 1
22	CR9	090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg (Export Models)	LH023056 - MA340014E 1
/				
23	R7	235250	Resistor, Hsc 30 W 3 Ohm (Export Models)	LH023056 - MA340014E 1
/				

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Control Box Assembly - CC-CV Models

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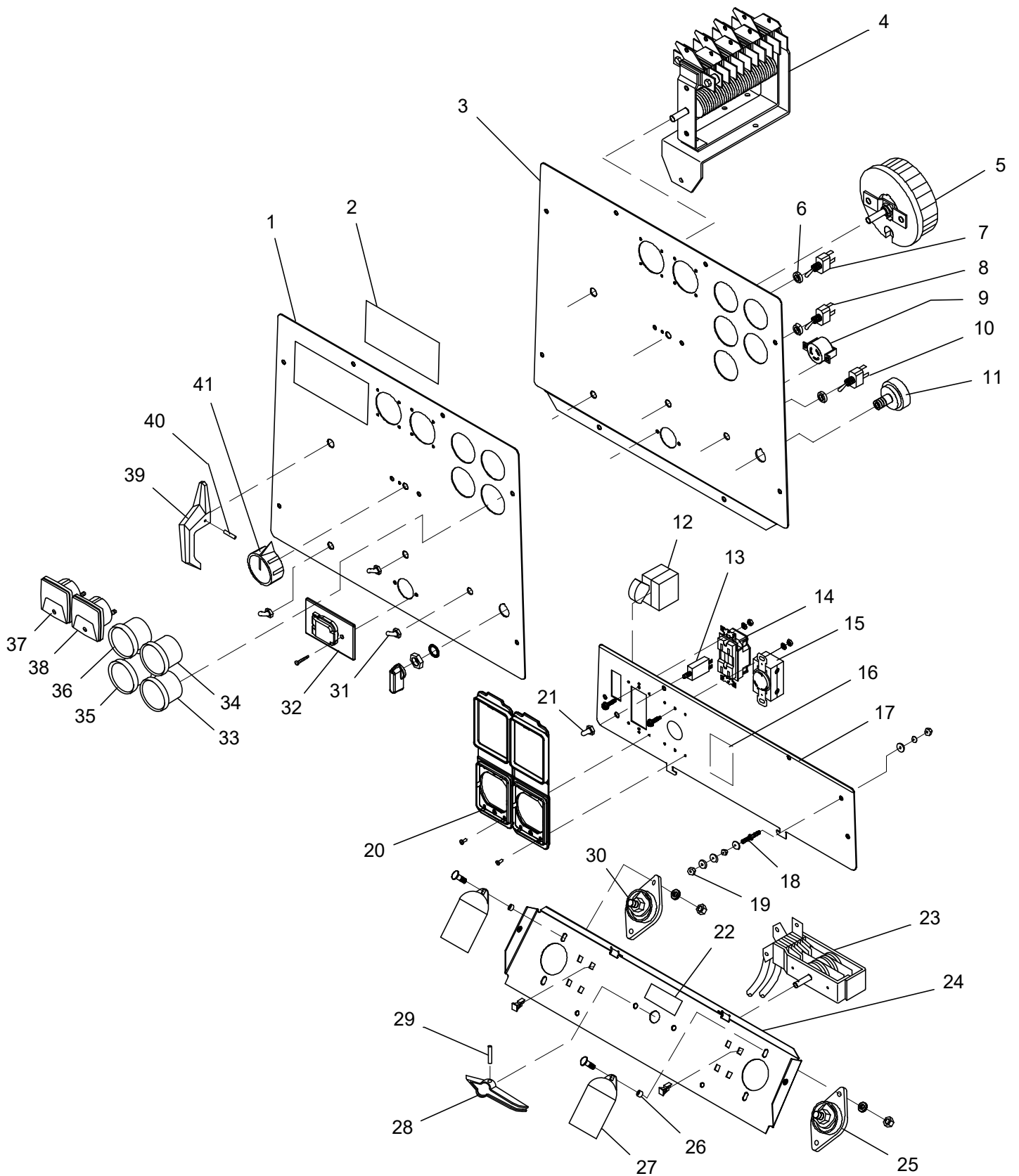
Item No.	Dia. Mkgs.	Part No.	Description	Qty
* 1	F1, F2	085874	Fuse, Mintr Cer Slo-Blo 10. Amp 250 Volt	2
2		046432	Holder, Fuse Mintr .250 x 1.250 Panel Mtg	2
3		201077	Control Box, Lh	1
4		201078	Control Box, Rh	1
5	CR3	~ 090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	1
6	CR8	~ 197325	Relay, Encl 12 Vdc Spst 70A 4Pin Flange Mtg	1
7	CR1	214876	Relay, Encl 6 Vdc Spst 35A/14 Vdc 5 Pin	LE028711 - MB460062E 1
7	CR1	252053	Relay, Encl 12 Vdc Spst 35A/14 Vdc 5 Pin	MB460063E - MG060004E 1
8	CR6	~ 090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	1
9	D8/C8	189701	Diode/Capacitor Board	1
10	CB14	~ 205927	Circuit Breaker, Auto Reset 12 Vdc 12 Amp	1
11	CB10	190374	Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1
12	CR5	199999	Relay, Encl 12 Vdc Spst 30A/15 Vdc	LE028711 - LF310973 1
12	CR5	223710	Relay, Encl 12 Vdc Dpst-No 25A 6Pin Flange	LF310974 - MG060004E 1
13	PC7	~ 195706	Module, Pull To Idle, Two Output, 7 Pin	1
14	SR1	035704	Rectifier, Integ Bridge 40. Amp 800V	1
15		201079	Cover, Control Box	1
16	CR4	~ 113247	Relay, Encl 12 Vdc Dpdt 20A/120 Vac 8Pin Flange Mtg	1
17	PC9	192224	Circuit Card Assy, Display	1
18		134201	Stand-Off Support, Pc Card No. 6 Screw	3
/	TD1	214928	Timer, Delay On Make/Break Open 30 Sec 12 Vdc	LE028711 - LJ110095E 1
19	C9	087110	Capacitor, Elctlt 240 uF 200 Vdc Can 1.39 Di	1
20		177136	Clamp, Capacitor 1.375 Dia	1
21	D1/C1	189701	Diode/Capacitor Board	1
22	CB11,12,13	139266	Supplementary Protector, Man Reset 1p 15A 250 Vac	3
23	CR9	090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg (Export Models)	
/			LH023056 - MA340014E	1
24	R7	235250	Resistor, Hsc 30 W 3 Ohm (Export Models)	
/			LH023056 - MA340014E	1

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Panel, Front with Components - CC Models

Panel, Front with Components - CC Models

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		215070	Plate Screened, Ident Control Rating	1
/			(When ordering this item, the nameplate should also be ordered)	
1		236971	Plate Screened, Ident Control Rating	1
/			(When ordering this item, the nameplate should also be ordered)	
1		240162	Plate Screened, Ident Control Rating	1
/			(When ordering this item, the nameplate should also be ordered)	
2			Nameplate, Screened (Order by Model and Serial No.)	1
3		215014	Panel, Engine/Weld Control	1
3		236608	Panel, Engine/Weld Control	1
3		238616	Panel, Engine/Weld Control	1
3		~ 220544	Panel, Engine/Weld Control Ss	1
4	S3	208278	Switch, Range/Changeover	1
/		192558	↓ Harness, Range	1
/	RC6	148389	→ Conn, Rect Univ 084 4P/S 1row Rcpt Cable/Panel Lkg	1
5	R1	188635	Rheostat, WW 300w 34 Ohm	3
6		202209	Spacer, Nylon .805 Od x .510 Id x .220 Lg	1
7	S6	011622	Switch, Tgl Dpdt 15A 125 Vac (Included In Control Box Harness)	1
8	S5	011609	Switch, Tgl Spdt 15A 125 Vac On-None-On Spd Term Chr	1
9	RC13	032897	Receptacle, Twlk Grd 2p3w 15A 125V	1
10	S2	021467	Switch, Tgl Spst 3A 250V Off-None-(On) Spd Term	1
11	S1	212436	Switch, Ignition 4 Position w/Handle	1
11	S1	217680	Switch, Ignition 4 Position w/Out Handle	1
/		207073	Lever, Ignition Switch	1
/		201244	Washer, Tooth .728 Id x 1.166 Od x .050T Stl Pld Int .688	1
/		805259-A	Auxiliary Power Group, Export	
/		215365	↓ Auxiliary Power Group, Domestic	1
12	CB1	201083	→ Supplementary Protector, Man Reset 2p 20A 250 Vac	1
/		201553	→ Clip, Retaining Circuit Breaker	1
13	CB2	093996	→ Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	1
14	GFCI1	246865	→ Rcpt, Str Dx Grd 2p3w 20A 125V *5-20r Gfi	1
15	RC1	147632	→ Rcpt, Tw Lk Grd 2p3W 30A 250V *L6-30r	1
16		190861	→ Label, Warning, Electric Shock And Moving Parts Etc	1
17		+ 215347	→ Panel, AuxPwr	1
17		+~215045	→ Panel, Gen Pwr Ss	1
18		083030	→ Stud, Brs .250-20 x 1.750 w/Hex Collar	3
19		601836	→ Nut, .250-20 50 Hex .19H Brs	2
20		209056	→ Cover, Receptacle w/Gasket	1
21		206795	→ Boot, Circuit Breaker Clear Hex Nut	1
22		~ 196073	Label, Do Not Switch While Welding	1
23	S12	~ 195825	Switch, Polarity	1
23	S12	~ 220491	Switch, AC/Polarity	1
24		201125	Panel, Mtg Terminal Pwr Output	1
24		~ 199303	Panel, Mtg Terminal Pwr Output Ss	1

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Panel, Front with Components - CC Models

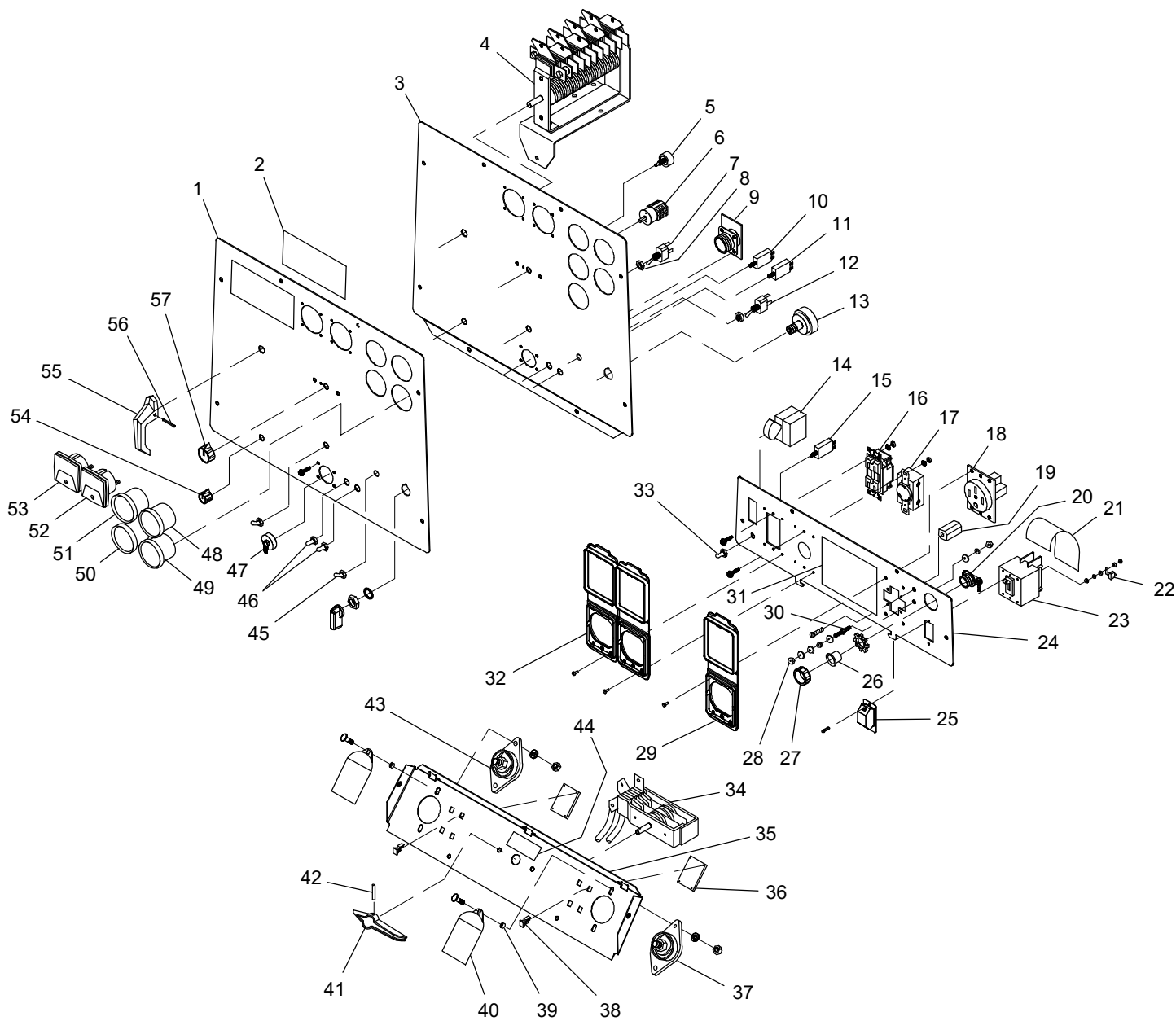
Item No.	Dia. Mkgs.	Part No.	Description	Qty	
25		241433	Terminal, Pwr Output Black	2	
/		180735	Washer, Output Stud	2	
26		181169	Spacer, Output Stud	2	
27		186621	Boot, Generic Output Stud	1	
28		~ 059773	Handle, Switch	1	
29		~ 010647	Pin, Spring Cs .156 x 1.250	1	
30		241432	Terminal, Pwr Output Red	1	
31		021385	Boot, Toggle Switch Lever	1	
32		201045	Cover, Receptacle Twistlock	1	
33		~ 193228	Meter, Volt Dc 8-18 Scale 2.250	1	
34	FUEL	192265	Gauge, Fuel Elec Switch w/o Sensor	LE028711 - LJ110095E	1
34	FUEL/HM	232113	Gauge, Fuel Elec/Hour Meter	LJ110096E - MG060004E	1
/	HM	210424	Meter, Hour 12-24 Vdc 225 Dia	LE028711 - LJ110096E	1
35		217084	Gauge, Coolant Temp 0-300 Deg F		1
/		195746	Sender, Coolant		1
36		217083	Gauge, Pressure Oil 0-100 Psi		1
/		195745	Switch, Oil Pressure		1
37		~ 164874	Volt Meter, w/Leads		1
38		~ 164873	Ammeter, w/Leads		1
39		189161	Handle, Switch Range		1
40		010647	Pin, Spring Cs .156 x 1.250		1
41		019602	Knob, Pointer		1
/		024103	Blank, Snap-In Nyl .750 Mtg Hole Black		1

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Panel, Front with Components - CC-CV Models

Panel, Front with Components - CC-CV Models

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		215158	Plate Screened, Ident Control (When ordering this item, the nameplate should also be ordered)	1
1		236970	Plate Screened, Ident Control (When ordering this item, the nameplate should also be ordered)	1
1		240163	Plate Screened, Ident Control (When ordering this item, the nameplate should also be ordered)	1
2			Nameplate, Screened (Order by Model and Serial No.)	1
3		215014	Panel, Engine/Weld Control	1
3		236608	Panel, Engine/Weld Control	1
3		238616	Panel, Engine/Weld Control	1
3		~ 220544	Panel, Engine/Weld Control Ss	1
4	S3	208278	Switch, Range/Changeover	1
5	R1	193118	Pot, Cp Flat 1t 2w 1k Ohm Linear	1
6	S6	193234	Switch, Rotary 6 Position Gold Contacts (Included In Control Box Harness)	1
/		196603	Seal, Switch 6 Position Rotary 250 Shaft	1
7	S5	011609	Switch, Tgl Spdt 15A 125 Vac On-None-On Spd Term Chr	2
8		202209	Spacer, Nylon .805 Od x .510 Id x .220 Lg	1
9	PC6	242944	Circuit Card Assy, Connector/Receptacle	1
10	CB5	139266	Supplementary Protector, Man Reset 1p 15A 250 Vac	1
11	CB6	083432	Supplementary Pro, Man Reset 1P 10A 250 Vac Frict	1
12	S2	021467	Switch, Tgl Spst 3A 250V Off-None-(On) Spd Term	1
13	S1	212436	Switch, Ignition 4 Position w/Handle	1
13	S1	217680	Switch, Ignition 4 Position w/Out Handle	1
/		207073	Lever, Ignition Switch	1
/		201244	Washer, Tooth .728 Id x 1.166 Od x .050T Stl Pld Int .688	1
/			Motor And Wire Drive Assy	
/		215437	↓ Auxiliary Power Group, Domestic	1
14	CB1	201083	→ Supplementary Protector, Man Reset 2p 20A 250 Vac	1
/		201553	→ Clip, Retaining Circuit Breaker	1
15	CB2	093996	→ Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	1
16	GFCI1	246865	→ Rcpt, Str Dx Grd 2p3w 20A 125V *5-20r Gfi	1
17	RC1	147632	→ Rcpt, Tw Lk Grd 2p3W 30A 250V *L6-30r	1
18	RC5	~ 182954	→ Rcpt, Str 3p4w 50A 125/250V Flush Mtg 14-50	1
19		~ 025248	→ Stand-off, Insul .250-20 x 1.250 Lg x .437 Thd	1
20		~ 604102	→ Conn, Clamp Cable 1000	1
21		~ 197527	→ Guard, Circuit Breaker	3
22		~ 197363	→ Terminal, Ring Tng Screw Clamp	1
23	CB7	~ 214926	→ Supplementary Protector, Man Reset 3p 50A 250 Vac	1
24		+ 215347	→ Panel, AuxPwr	1
24		+~215363	→ Panel, Generator Power (Full Kva Option)	1
25		~ 214927	→ Boot, Circuit Breaker 1 Pole	1
26		~ 197508	→ Plug, Protective	1
27		~ 077440	→ Bushing, Conduit 1 In	3

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Panel, Front with Components - CC-CV Models

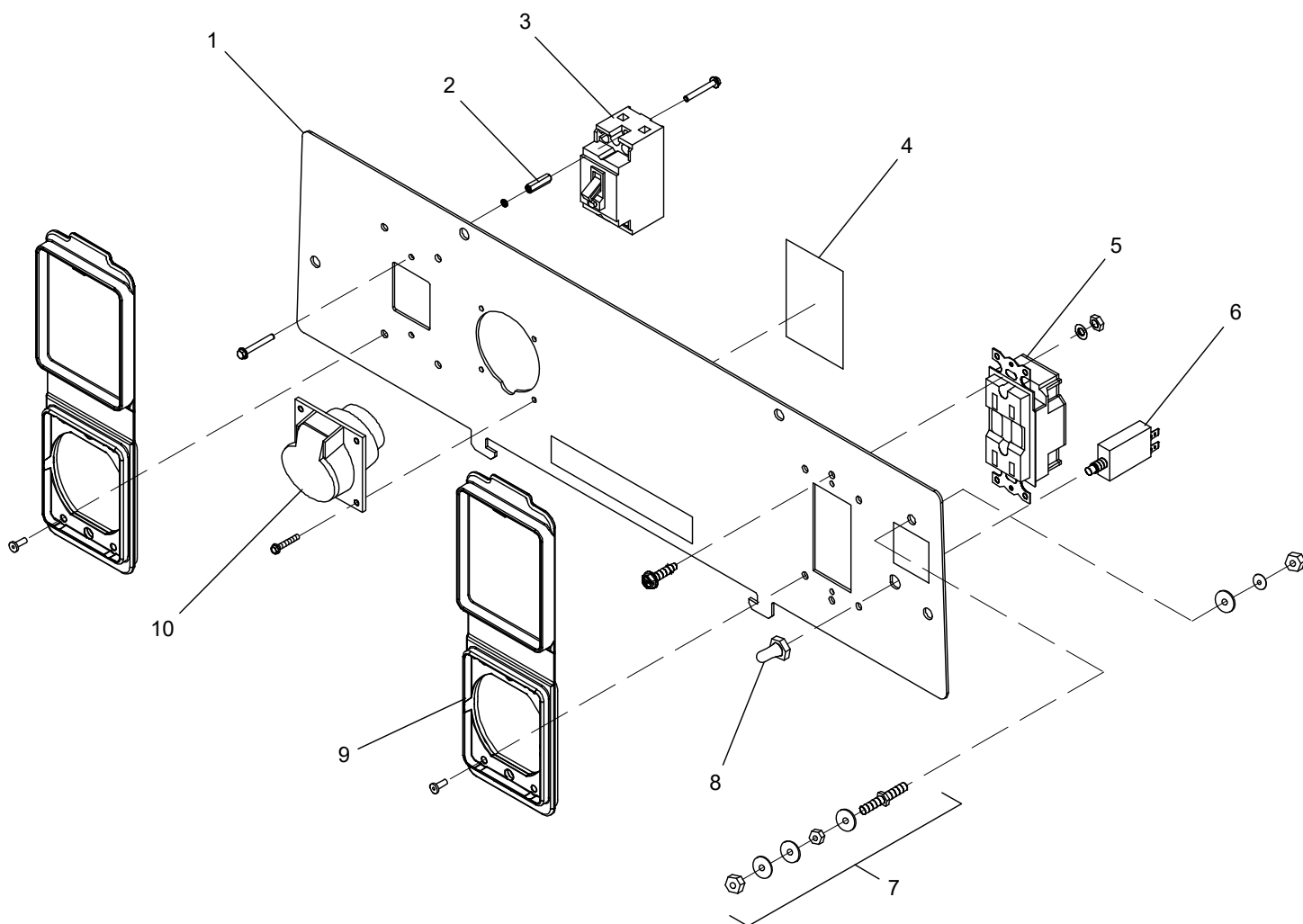
Item No.	Dia. Mkgs.	Part No.	Description	Qty
28		601836	→ Nut, .250-20 50 Hex .19H Brs	1
29		~ 209056	→ Cover, Receptacle w/Gasket	1
30		083030	→ Stud, Brs .250-20 x 1.750 w/Hex Collar	1
/	CT2	~ 197433	→ Transformer, Current Sensing	1
31		190861	→ Label, Warning, Electric Shock And Moving Parts Etc	1
31		~ 197399	→ Label, Warning 3 Ph Generator Power	2
32		209056	→ Cover, Receptacle w/Gasket	1
33		206795	→ Boot, Circuit Breaker Clear Hex Nut	1
34	S12	~ 195825	Switch, Polarity	1
/	S12	~ 220491	Switch, AC/Polarity	1
35		201125	Panel, Mtg Terminal Pwr Output	2
36	PC4, PC5	242935	Circuit Card Assembly, Filter Hf	1
37		241433	Terminal, Pwr Output Black	2
/		180735	Washer, Output Stud	12
38		134201	Stand-Off Support, Pc Card No. 6 Screw	2
39		181169	Spacer, Output Stud	2
40		186621	Boot, Generic Output Stud	1
41		~ 059773	Handle, Switch	1
42		~ 010647	Pin, Spring Cs .156 x 1.250	1
43		241432	Terminal, Pwr Output Red	1
44		~ 196073	Label, Do Not Switch While Welding	1
45		021385	Boot, Toggle Switch Lever	2
46		190323	Boot, Circuit Breaker Clear Hex Nut	1
47		170391	Conn, Circ Ms Protective Cap Size 20 Nylon	1
48	HM	210424	Meter, Hour 12-24 Vdc 225 Dia	LE028711 - LJ110095E 1
48	FUEL/HM	232113	Gauge, Fuel Elec/Hour Meter	LJ110096E - MG060004E 1
/	FUEL	192265	Gauge, Fuel Elec Switch w/o Sensor	LE028711 - LJ110096E 1
49		~ 193228	Meter, Volt Dc 8-18 Scale 2.250	1
50		217084	Gauge, Coolant Temp 0-300 Deg F	1
/		195746	Sender, Coolant	1
51		217083	Gauge, Pressure Oil 0-100 Psi	1
/		195745	Switch, Oil Pressure	1
52		~ 164873	Ammeter, w/Leads	1
53		~ 164874	Volt Meter, w/Leads	1
54		207080	Knob, Pointer 1.125 Dia	1
/		230337	↓ Switch Handle w/Pin	1
55		189161	→ Handle, Switch Range	1
56		010647	→ Pin, Spring Cs .156 x 1.250	1
57		097926	Knob, Pointer 2.375 Dia x .250 Id	1
/		024103	Blank, Snap-In Nyl .750 Mtg Hole Black	1
/		120304	Blank, Snap-In Nyl .250 Mtg Hole Black	2

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Auxiliary Power Group, Export

Auxiliary Power Group, Export

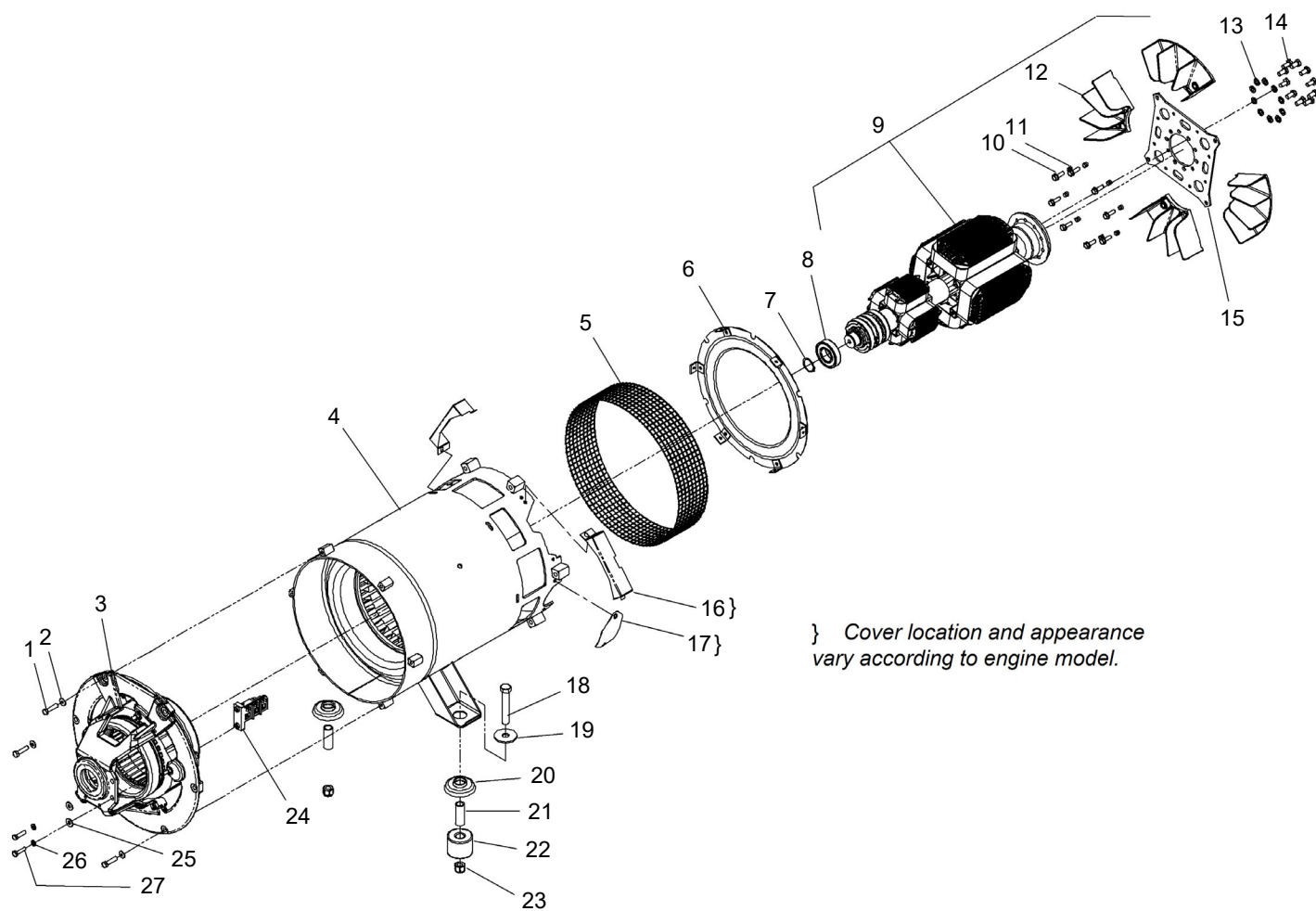
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		+ 223121	Panel, Aux Power (Export)	1
2		144844	Stand-off, No 6-32 x .875 Lg 250 Hex Al Fem	2
3	ELCB1	222991	Circuit Breaker, Elcb 16A 220V 0.030A Trip	1
4		200910	Label, Warning Electric Shock And Moving Parts Ce LE028711 - MF510041E	1
4		272330	Label, Warning Electric Shock/Moving Parts (Sym) MF510042E - MG060004E	1
5	GFCI1	246614	Receptacle, GFCI 15/20A	1
6	CB2	093996	Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	1
7		083030	Stud, Brs .250-20 x 1.750 w/Hex Collar	1
/		601836	Nut, .250-20 50 Hex .19H Brs	3
8		190323	Boot, Circuit Breaker Clear Hex Nut	1
9		209056	Cover, Receptacle w/Gasket	2
10	RC1	176355	Rcpt, Str 2p3w 16A 220V Flange Mtg	1

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Generator

Generator

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		132053	Screw, .375-16 x 1.50 Hex Hd-Pln Gr5 Pld Blk	6
2		183387	Washer, Cone .380 Id x .860 Od x .109T Stl Pld 4000 Lbs	6
Prior to Serial No. MD230076E,				
- The entire Endbell w/Exciter Stator assembly (264056) must be ordered.				
Eff w/MD230076E,				
- Components may be ordered individually.				
3		264056	↓ Endbell w/Exciter Stator	1
/		264058	→ Stator, Exciter/Aux Power MD230076E - MG060004E	1
/		604538	→ Washer, Flat .344 Id x 0.688 Od x .065T Stl Pld Ansi .312 MD230076E - MG060004E	4
/		172684	→ Nut, .312-18 .50 Hex .27H Stl Pld Sem Cone Wshr .76D MD230076E - MG060004E	4
/		257974	→ ↓ Kit, Endbell w/O-ring MD230076E - MG060004E	1
/		203635	→ → Endbell, Gen MD230076E - MG060004E	1
/		143220	→ → O-Ring, 2.859 Id x .139 Cs 70 Duro Viton MD230076E - MG060004E	1
/		604537	Nut, .312-18 .50Hex .28h Stl Pld	4
/		604538	Washer, Flat .344 Id x 0.688 Od x .065T Stl Pld Ansi .312	4
/		261463	Screw, .312-18 x 4.50 Hex Hd-pln Stl Gr5 Pld Full	4
4		+ 215011	Stator, Weld/Power Assy Complete	1
4		+ ~216318	Stator, Weld/Power Assy Complete (Full Kva Option)	1
5		190197	Guard, Generator Wire Mesh	1
/		172674	Spring, Ext .240 Od x .041 Wire x 3.500 Pld	2
6		039207	Baffle, Air Gen	1
/		172555	Screw, M10-1.5 x 50 Hex Hd-Pln 8.8 Pld	6
7		024617	Ring, Rtnng Ext 1.375 Shaft x .050 Thk	1
8		053390	Bearing, Ball Rdl Sgl Row 1.370 x 2.830 x .6	1
9		212996	Rotor, Generator	1
10		080389	Screw, .312-18 x 1.00 Hexwhd .66D Stl Pld Slffmg Tap-Rw	8
11		083883	Washer, Lock .402 Id x 0.709 Od x .087T Stl Pln Split 10mm	8
12		206242	Fan, Rotor Segmented Assy Gen	4
13		083883	Washer, Lock .402 Id x 0.709 Od x .087T Stl Pln Split 10mm	10
14		049026	Screw, M10-1.5 x 25 Hex Hd-Pln 8.8 Pln	10
15		210332	Plate, Flex Hubmount	1
16		191579	Cover, Starter Hole Perkins/Continental	1
17		191580	Cover, Starter Hole Deutz	1
/		199849	Screw, .625-11 x 4.00 Hex Hd-pln Gr5 Pld	3
18		071731	Washer, Flat .656 Id x 2.250 Od x .187T Stl Pld	2
19		071890	Retainer, Mount Eng/Gen	2
20		071730	Tubing, Stl .875 Od x 12Ga Wall x 2.500	2
21		083476	Mount, Eng/Gen Nprn .875 Id x 2.500 Od x 2.000 60 Dur	2
22		135205	Nut, .625-11 .94 Hex .77H Stl Pld Elastic Stop Nut	2
23		602159	Screw, .312-18 x .75 Hexwhd .66D Stl Pld Slffmg Tap-Rw	6
24		189142	Brushholder, Generator	1
* /		190823	Brush, Contact Elect .250 x .500 x 1.250 Grd Ay	3
/		208469	Clip, Spring	3

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Generator

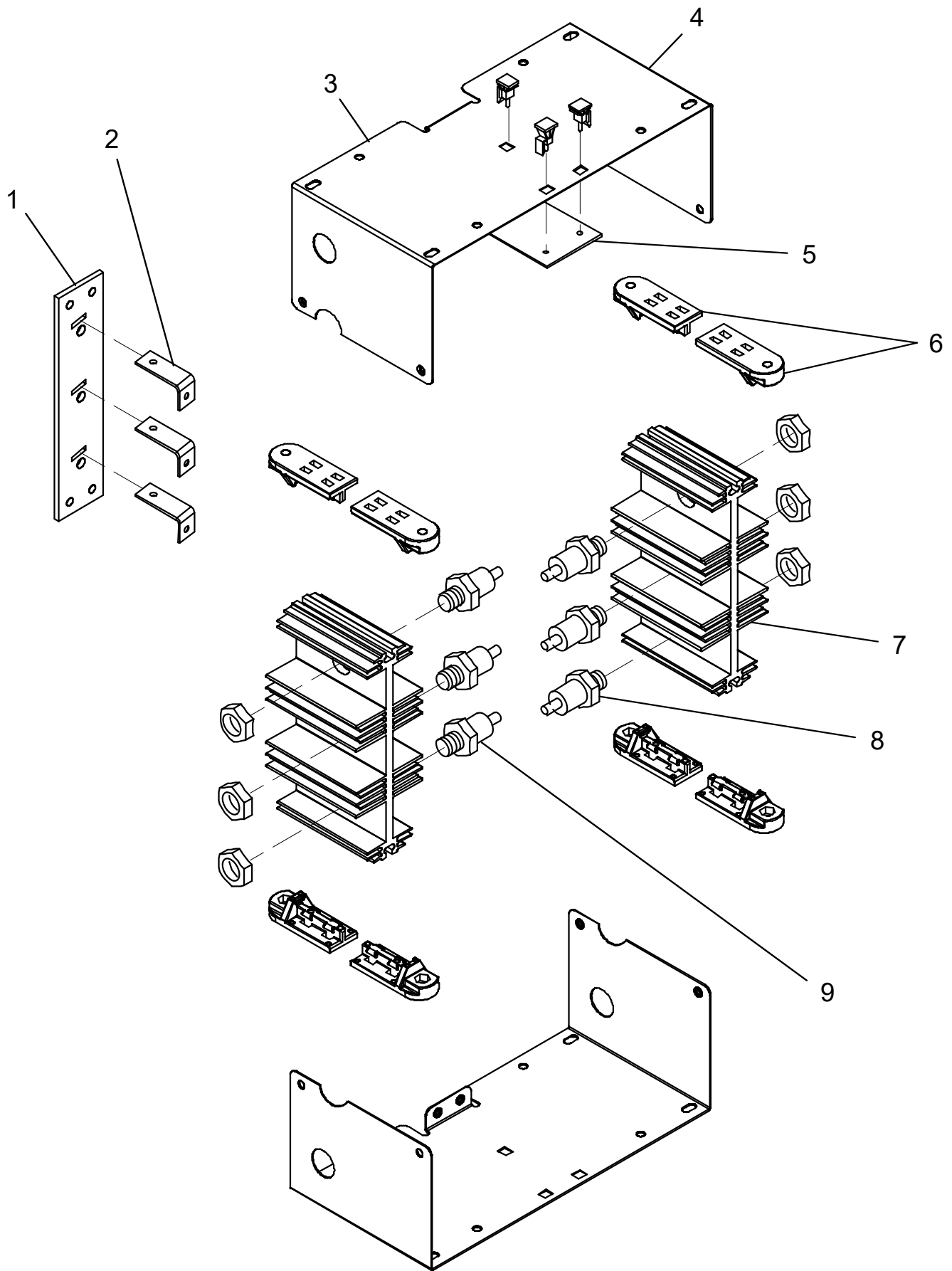
Item No.	Dia. Mkgs.	Part No.	Description	Qty
25		602242	Washer, Flat .375 Id x 0.875 Od x .083T Stl Pld Blk	2
26		602211	Washer, Lock .318 Id x 0.586 Od x .078T Stl Pld Split .312	2
27		604534	Screw, .312-18 x 1.25 Hex Hd-Pln Gr5 Pld	2

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Main Rectifier Assembly

Main Rectifier Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/	SR3	239784	↓ Rectifier	1
1		188137	→ Connection Board, Rectifier Ac	1
2		188517	→ Bus Bar, Connection Board	3
3		188135	→ Enclosure, Rectifier	2
4		134201	→ Stand-Off Support, Pc Card No. 6 Screw	3
5	PC3	269140	→ Circuit Card Assy, Protection	1
6		188136	→ Insulator, Heat Sink	8
7		188493	→ Heat Sink, Rectifier Al	2
8	D3, D5, D7	037956	→ Diode, Rect 275A 300V LE028711 - LH002537	3
8	D3, D5, D7	208334	→ Diode, Rect 275A 300v Sp LH002538 - MA080187E	3
8	D3, D5, D7	245097	→ Diode, Rect 300A 500V Do-9 (Straight) Modified MA080188E - MG060004E	3
9	D2, D4, D6	037957	→ Diode, Rect 275A 300v Rp LE028711 - LH002537	3
9	D2, D4, D6	208335	→ Diode, Rect 275A 300v Rp LH002538 - MA080187E	3
9	D2, D4, D6	245096	→ Diode, Rect 300A 500V Do-9 (Reverse) Modified MA080188E - MG060004E	3

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		215054	↓ Harness, Control Box, Weld Control	1
/		236606	↓ Harness, Control Box, CC Weld Control	1
/		238763	↓ Harness, Control Box, CC Weld Control	1
/	SR1, SR2	035704	→ Rectifier, Integ Bridge 40. Amp 800V	2
/	D1/C1	189701	→ Diode/Capacitor Board	1
/	RC4	047483	→ Conn, Rect Univ 084 15P/S 3Row Rcpt Cable/Panel Lkg	1
/	CB11, CB12, CB13	139266	→ Supplementary Protector, Man Reset 1p 15A 250 Vac	3
/	CR7	188636	→ Relay, Ocv Control	1
/		148850	→ Socket, Relay 5 Pin	1
/	S6	011622	→ Switch, Tgl Dpdt 15A 125 Vac (Included In Control Box Harness)	1
/	S5	011609	→ Switch, Tgl Spdt 15A 125 Vac On-None-On Spd Term Chr	1
/		211292	→ Conn, Pack 4p 1row Female	1
/		211293	→ Conn, Pack Terminal Position Assurance(Lock)	1
/		164617	→ Clip, Wiring Straight	3
/	S2	021467	→ Switch, Tgl Spst 3A 250V Off-None-(On) Spd Term	1
/		150316	→ Conn, Rect Univ 039 6P/S 3row Plug Cable Lkg	5
/	RC3	158466	→ Conn, Rect Univ 084 12P/S 3row Rcpt Cable/Panel Lkg	1
/	RC1	135133	→ Conn, Rect Univ 084 9p/S 3row Rcpt Cable/Panel Lkg	1
/		215377	↓ Harness, Control Box, CV Weld Control	1
/		236603	↓ Harness, Control Box, CV Weld Control	1
/		238683	↓ Harness, Control Box, CV Weld Control	1
/	CB11, CB12, CB13	139266	→ Supplementary Protector, Man Reset 1p 15A 250 Vac	3
/	SR1	035704	→ Rectifier, Integ Bridge 40. Amp 800V	1
/		148850	→ Socket, Relay 5 Pin	1
/	RC4	047483	→ Conn, Rect Univ 084 15P/S 3Row Rcpt Cable/Panel Lkg	1
/	RC3	158466	→ Conn, Rect Univ 084 12P/S 3row Rcpt Cable/Panel Lkg	1
/	RC1	135133	→ Conn, Rect Univ 084 9p/S 3row Rcpt Cable/Panel Lkg	1
/		150316	→ Conn, Rect Univ 039 6P/S 3row Plug Cable Lkg	6
/	S6	193234	→ Switch, Rotary 6 Position Gold Contacts (Included In Control Box Harness)	1
/		021467	→ Switch, Tgl Spst 3A 250V Off-None-(On) Spd Term	1
/	S5	011609	→ Switch, Tgl Spdt 15A 125 Vac On-None-On Spd Term Chr	1
/	D1/C1	189701	→ Diode/Capacitor Board	1
/		193183	→ Conn, Rect Cinch 18 Pin	1
/		196602	→ Plug, Cavity 18,30 Position Cinch Connector	4
/		196603	→ Seal, Switch 6 Position Rotary 250 Shaft	1
/		141450	→ Conn, Rect Metrmate 10Skt 1Row Plug Cable Lkg	1
/		093995	→ Supplementary Pro, Man Reset 1P 15A 250 Vac Frict	2
/		211292	→ Conn, Pack 4p 1row Female	1
/		211293	→ Conn, Pack Terminal Position Assurance(Lock)	1
/		215013	↓ Harness, Unit Weld Control	1
/	PLG3	158465	→ Conn, Rect Unit 084 12P/S 3row Plug Cable Lkg	1
/		187654	→ Seal, Wire Univ 12p/S 3row	1
/	PLG6	114063	→ Conn, Rect Univ 084 4P/S 1Row Plug Cable Lkg	1

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty	
/		215207	↓ Harness, Unit Weld Control - CV	1	
/	PLG6	114063	→ Conn, Rect Univ 084 4P/S 1Row Plug Cable Lkg	1	
/	PLG8	193184	→ Conn, Rect Cinch 30 Pin	1	
/	PLG13	147992	→ Connector, Rect Univ 0.39 10P/S 2 Row Plug Cable	1	
/	PLG3	158465	→ Conn, Rect Unit 084 12P/S 3row Plug Cable Lkg	1	
/		187654	→ Seal, Wire Univ 12p/S 3row	1	
/		196602	→ Plug, Cavity 18,30 Position Cinch Connector	6	
/		215659	↓ Harness, Engine Control	1	
/	D10/C10, D11/C11	189701	→ Diode/Capacitor Board	2	
/	CB10	190374	→ Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1	
/	CR1	090104	→ Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	LE028711 - MC190037E	1
/	CR1	252053	→ Relay, Encl 12 Vdc Spst 35A/14 Vdc 5 Pin	MC190038E - MG060004E	1
/		148850	→ Socket, Relay 5 Pin		1
/	PLG4	114062	→ Connector, Rect Univ 084 15P/S 3 Row Plug Cable Lkg		1
/		212116	→ Conn, Deutsch 2P 1Row Female Plug		3
/		212117	→ Conn, Deutsch Wedge Lock 2 Position		3
/	CR8	197325	→ Relay, Encl 12 Vdc Spst 70A 4Pin Flange Mtg		1
/		192558	↓ Harness, Range		1
/	RC6	148389	→ Conn, Rect Univ 084 4P/S 1row Rcpt Cable/Panel Lkg		1
/		201109	↓ Harness, Generator Power		1
/	GFCI1	246865	→ Rcpt, Str Dx Grd 2p3w 20A 125V *5-20r Gfi		1
/	CB2	093996	→ Supplementary Pro, Man Reset 1P 20A 250 Vac Frict		1
/		201053	↓ Harness, Generator Power (European Receptacle)	LE028711 - LJ005954	1
/		223132	↓ Harness, Receptacle Auxiliary Power	LJ005955 - MG060004E	1
/	GFCI1	246614	→ Receptacle, GFCI 15/20A		1
/	CB3	139266	→ Supplementary Protector, Man Reset 1p 15A 250 Vac		1
/	CB2	093996	→ Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	LE028711 - LJ005954	1
/		190259	↓ Harness, Brush		1
/	PLG1	135134	→ Conn, Rect Univ 084 9p/S 3row Plug Cable Lkg		1
/		187651	→ Seal, Wire Univ 9p/S 3row		1
/	RC1	147632	→ Rcpt, Tw Lk Grd 2p3W 30A 250V *L6-30r		1
/		235251	↓ Harness, Fuel Shutdown Solenoid	LH023056 - MA340014E	1
/		148850	→ Socket, Relay 5 Pin		1
/	R7	235250	→ Resistor, Hsc 30 W 3 Ohm		1

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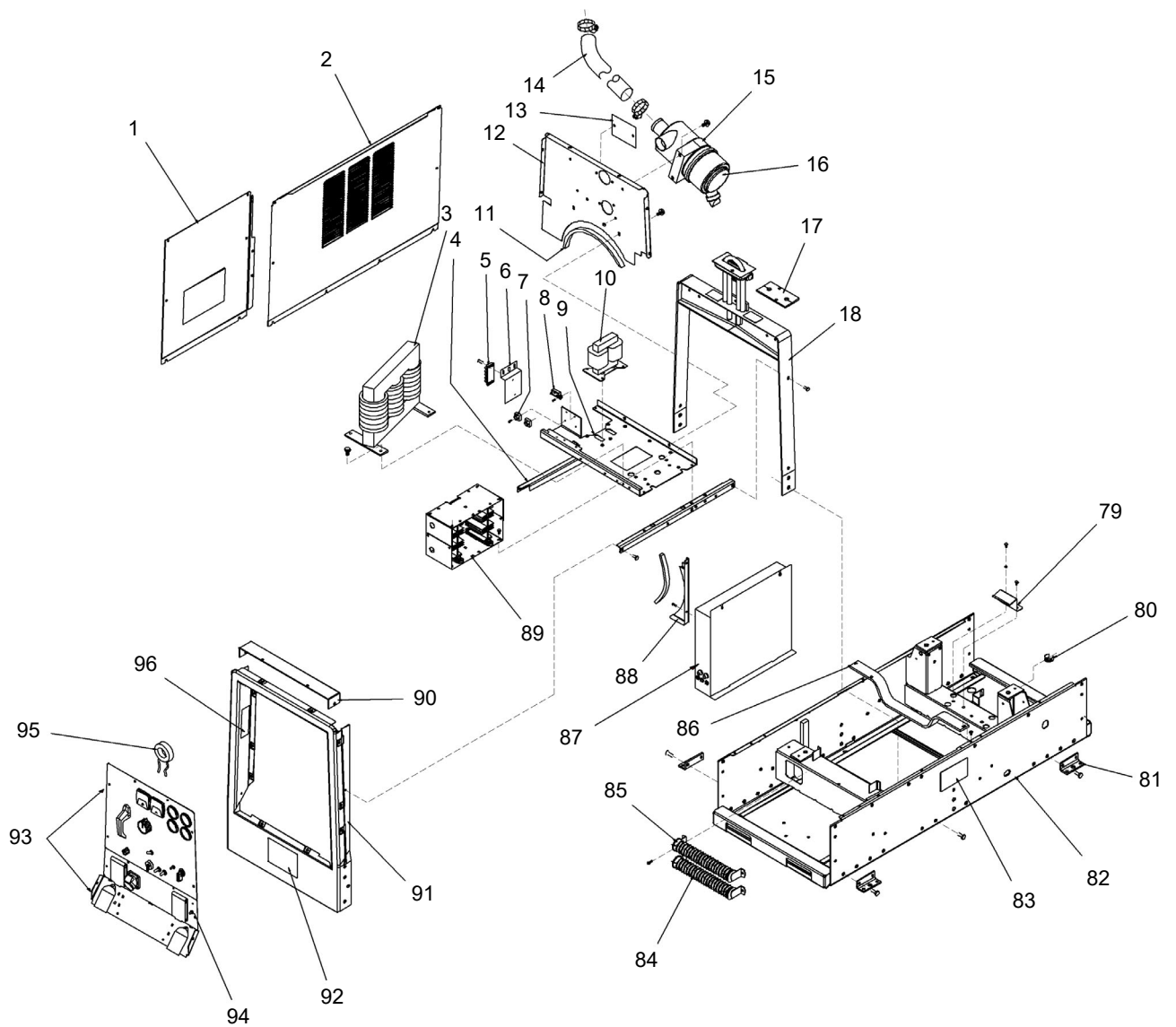
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Big Blue 500 X

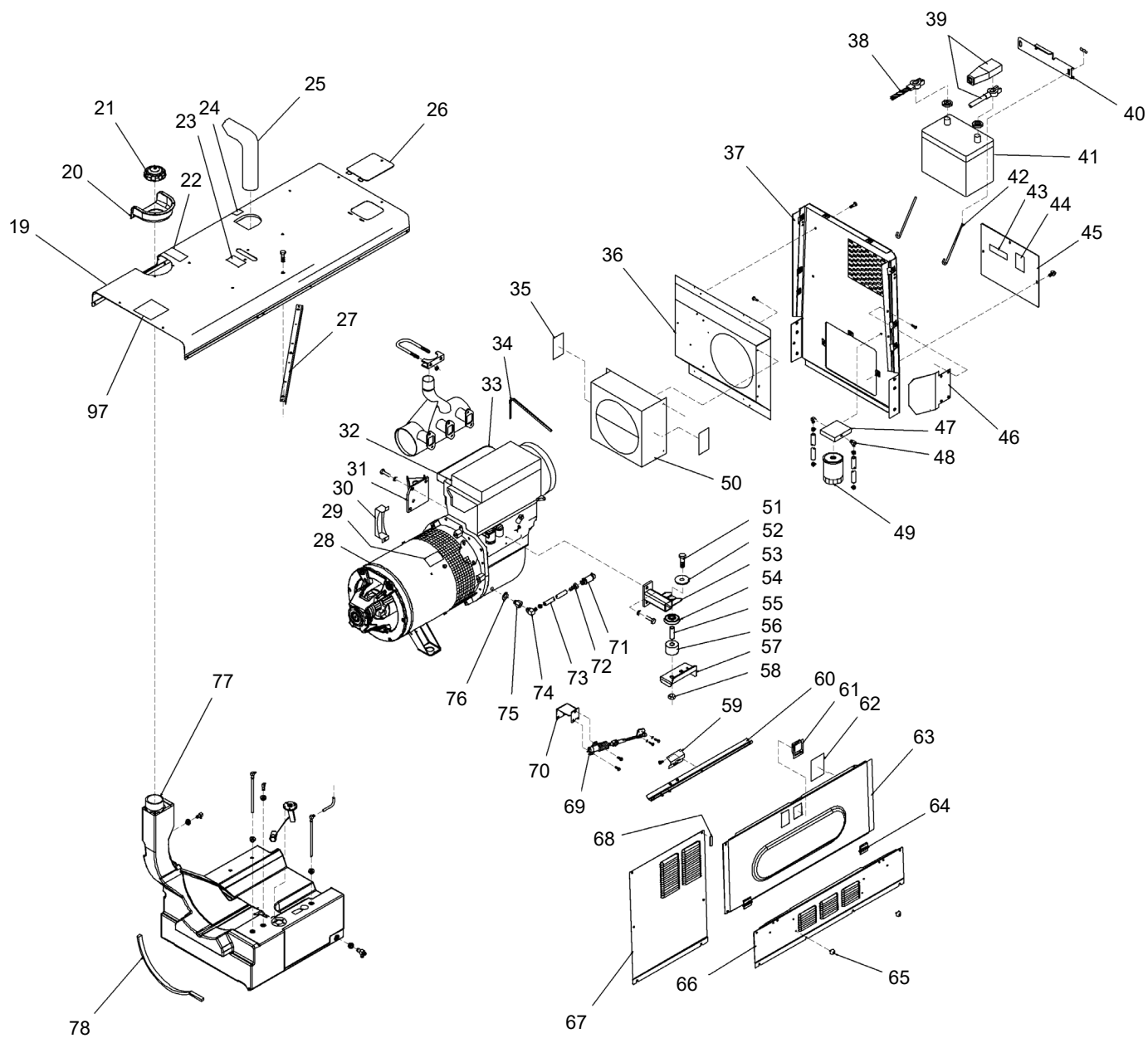
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MG060005E - ZZ222222R



PARTS MANUAL



Main Assembly



Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		189824	Panel, Gen Lh	1
2		+ 252811	Panel, Engine Side	1
3	Z1	214972	Reactor, Ac	1
4		206352	Brace, Front To Center Upright	2
5	1T	038621	Block, Term 30A 4 Pole Frict Term Str	1
/		038620	Link, Jumper Term Blk 30A	2
6		081499	Bracket, Mtg Strip Terminal	1
7	SR4, SR5	035704	Rectifier, Integ Bridge 40. Amp 800V	2
8	CB4	045061	Circuit Breaker, Auto Reset 24 Vdc 7 Amp	1
9		201697	Pan, Reactor And Rectifier	1
10	T1	201613	Transformer w/Bracket	1
11		263422	Extrusion, Rubber Clamp/Bulb 21.000 Lg (Order by Ft)	1
12		189708	Firewall, Top	1
13		191307	Cover, Blank	1
14		191829	Hose, Air Intake	1
15		189763	Bracket, Mtg Air Cleaner	1
16		189764	Air Cleaner, Intake	1
* /		192938	Filter, Air Element Primary	1
* /		~ 192939	Filter, Air Element Safety	1
17		189464	Seal, Weather Lift Eye	1
/		173909	Hose, Sae .312 Id x .560 Od x 24.000 (Order by Ft)	2
18		201658	Upright, Center Assy	1
19		+ 263316	Cover, Top	1
20		189052	↓ Grommet, Plastic Neck Filler Fuel	1
21		254678	→ Cap, Tank Screw-on 3.500 In w/Vent w/Lanyard 8 In	1
22		272338	Label, Use Diesel Fuel Only (En/Fr-Sym) MG060005E - MH060317R	1
22		227728	Label, Warning Use Diesel Fuel Only (Trilingual) MH060318R - ZZ222222R	2
23		272339	Label, Warning Falling Equipment (En/Fr/Sp-Sym)	1
24		272333	Label, Warning Hot Parts (En/Fr/Sp-Sym)	1
25		105734	Pipe, Muffler Extension Elbow 1.750 Od	1
25		201592	Pipe, Exhaust (Export Models)	1
/		010875	Clamp, Muffler 2.000 Dia U Pld	1
26		234509	Cover, Radiator Access	1
27		191354	Support, Cover	1
28		Generator	(See following for subassembly information)	1
29		272334	Label, Warning Moving Parts (En/Fr/Sp-Sym)	2
30		191577	Guard, Starter Deutz	1
31		197370	Bracket, Mtg Engine Lh F3L1011	1
32		197639	Baffle, Air	1
33		261639	Engine, Deutz Dsl Elec D2011L03i (Flex)	1
* /		067265	Oil Filter	1
* /		192744	Filter, Fuel Spin-On	1
* /		066217	Filter, Fuel Secondary (Deutz F4L2011 engine)	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
* /		195745	Switch, Oil Pressure	1
* /		195746	Sender, Coolant	1
/		~ 207847	Heater, Oil Pan 120V 300W 22mm x 15 Metric Thd	1
/		289162	Holder, Fuse Mega Flex	1
/		289161	Fuse, 80 Amp	1
* 34		216959	Belt, Blower	1
35		272334	Label, Warning Moving Parts (En/Fr/Sp-Sym)	2
36		201714	Box, Air Intake	1
37		201748	Upright, Rear Air Cooled	1
38		190206	Cable, Bat Neg 42.000 No 1 Awg w/Clamp & .400 Rng	1
39		190207	Cable, Bat Pos 45 In Lg No 1 Awg w/Clamp & .400 Rng	1
40		266385	Bracket, Battery Holddown	1
41	BATT		Battery, Stor 12V 650Crk 110Rsv Gp 24	1
42		201006	Bolt, J Stl .312-18 x 8.500 Pld	2
/		208041	Spacer, Stl .323 Id x .625 Od x .141 Thk	2
/		264924	Bracket, Battery Locator Adj	1
43		272341	Label, Warning Battery Explosion (En/Fr/Sp-Sym)	1
44		272334	Label, Warning Moving Parts (En/Fr/Sp-Sym)	2
45		+ 201183	Cover, Battery Access	1
46		+ 215252	Guard, Belt	1
47		206297	Base, Fuel Filter Assy	1
48		145282	Fitting, Hose Brs Barbed Elbow M 5/16Tbg x 1/4Npt	2
* 49		192744	Filter, Fuel Spin-On	1
50		+ 201715	Box, Air Intake Extension	1
51		199849	Screw, .625-11 x 4.00 Hex Hd-pln Gr5 Pld	4
52		071731	Washer, Flat .656 Id x 2.250 Od x .187T Stl Pld	4
53		197366	Bracket, Mtg Engine Rh Deutz F3L1011	1
54		071890	Retainer, Mount Eng/Gen	4
55		071730	Tubing, Stl .875 Od x 12Ga Wall x 2.500	4
56		083476	Mount, Eng/Gen Nprn .875 Id x 2.500 Od x 2.000 60 Dur	4
57		197373	Bracket, Support Base Rh F3L1011	1
58		135205	Nut, .625-11 .94 Hex .77H Stl Pld Elastic Stop Nut	4
59		190992	Keeper, Latch Engine Access Door	1
60		190076	Channel, Stiffener Engine Access	1
61		245362	Latch, Paddle Series 20 (Black) (400 Pro Models)	1
62		237352	Label, Maintenance Big Blue Deutz Series	1
63		+ 200989	Door, Engine Access	1
64		189975	Hinge, Door Access 180 Deg	2
65		254634	Bumper	2
66		269531	Panel, Rocker	1
67		189827	Panel, Gen Rh	1
68		191626	Bumper, Door Access Engine	2
69	TS1	~ 297316	Idle, Solenoid Assy	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
70		~ 269216	Bracket, Mtg Solenoid	1
/		199505	↓ Hose, Oil Drain 32.000 Lg	1
71		165271	→ Valve, Oil Drain 3/8-18Nptf	1
72		176529	→ Fitting, Hose Brs Barbed Fem 1/2Tbg x 3/8 Npt	1
73		269052	→ Hose, Nitrile .500Id x .765 Od x Roll Blk Brd (Order by Ft)	2
74		176528	Fitting, Hose Brs Barbed Elbow Fem 1/2 Tbg x 1/2 Npt	1
75		173336	Fitting, Adapter Oil Drain	1
76			Washer, Oil Drain (Available Through Engine Manufacturer)	1
77		259019	↓ Kit, Field Fuel Tank	1
/		257007	→ ↓ Tank, Fuel	1
/		189910	→ → Fitting, Stand Pipe Hose .3125 x 9.260 Lg 90 Deg Zinc	1
/		189909	→ → Fitting, Stand Pipe Hose .250 x 9.260 Lg 90 Deg Zinc	1
/		189912	→ → Fitting, Stl Barbed Elbow w/.047 In Orf Zinc Pld	1
/		189913	→ → Fitting, Stl Barbed Elbow Zinc Pld	1
/		124253	→ → Bushing, Tank Fuel	4
/		107816	→ → Hose, Sae .250 Id x .500 Od Xcoil	4046
/		084173	→ → Clamp, Hose .460 - .545 Clp Dia Siftng	2
/		189908	→ → Valve, Drain Fuel 180 Deg	1
/		181572	→ → Bushing, Tank Fuel	1
/		264196	→ → Sender, Fuel Gauge Reed Switch 9in	1
/		254678	→ → Cap, Tank Screw-on 3.500 In w/Vent w/Lanyard 8 In	1
/		228054	→ → Gasket, Fuel Sender/Fuel Tank	1
/		258232	→ Fuel Line Assy, w/Clamps 42.000 In	1
/		218086	→ Bracket, Holddown Fuel Tank	1
78		263420	Extrusion, Rubber w/Adhesive 41.000 Lg (Order by Ft)	6
79		196220	Bracket, Holddown Fuel Tank Rear	1
80		192362	Bracket, Mtg Nyl 1/2 Conduit	1
81		191897	Bracket, Mtg Unit	4
82		+ 262408	Base	1
83		272342	Label, Warning Do Not Weld On Base (En/Fr/Sp-Sym)	2
84	R2	189699	Resistor, WW Tap 375 W 10 Ohm w/Mtg Bkt	1
85	R3	189699	Resistor, WW Tap 375 W 10 Ohm w/Mtg Bkt	1
86		218086	Bracket, Holddown Fuel Tank	1
87			Control Box Assembly (See following for subassembly information)	1
88		189731	Firewall, Bottom	1
89			Main Rectifier Assembly (See following for subassembly information)	1
90		191448	Cover, Top Front Upright	1
91		+ 201750	Upright, Front	1
92		272343	Label, Warning General Precautionary (En/Fr/Sp-Sym)	1
93			Panel, Front w/Components (See following for subassembly information)	1
94			Auxiliary Power Group, Export (See following for subassembly information)	1
/			MG060005E - MJ370728R	
94			Auxiliary Power Group, Export (See following for subassembly information)	1

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Main Assembly

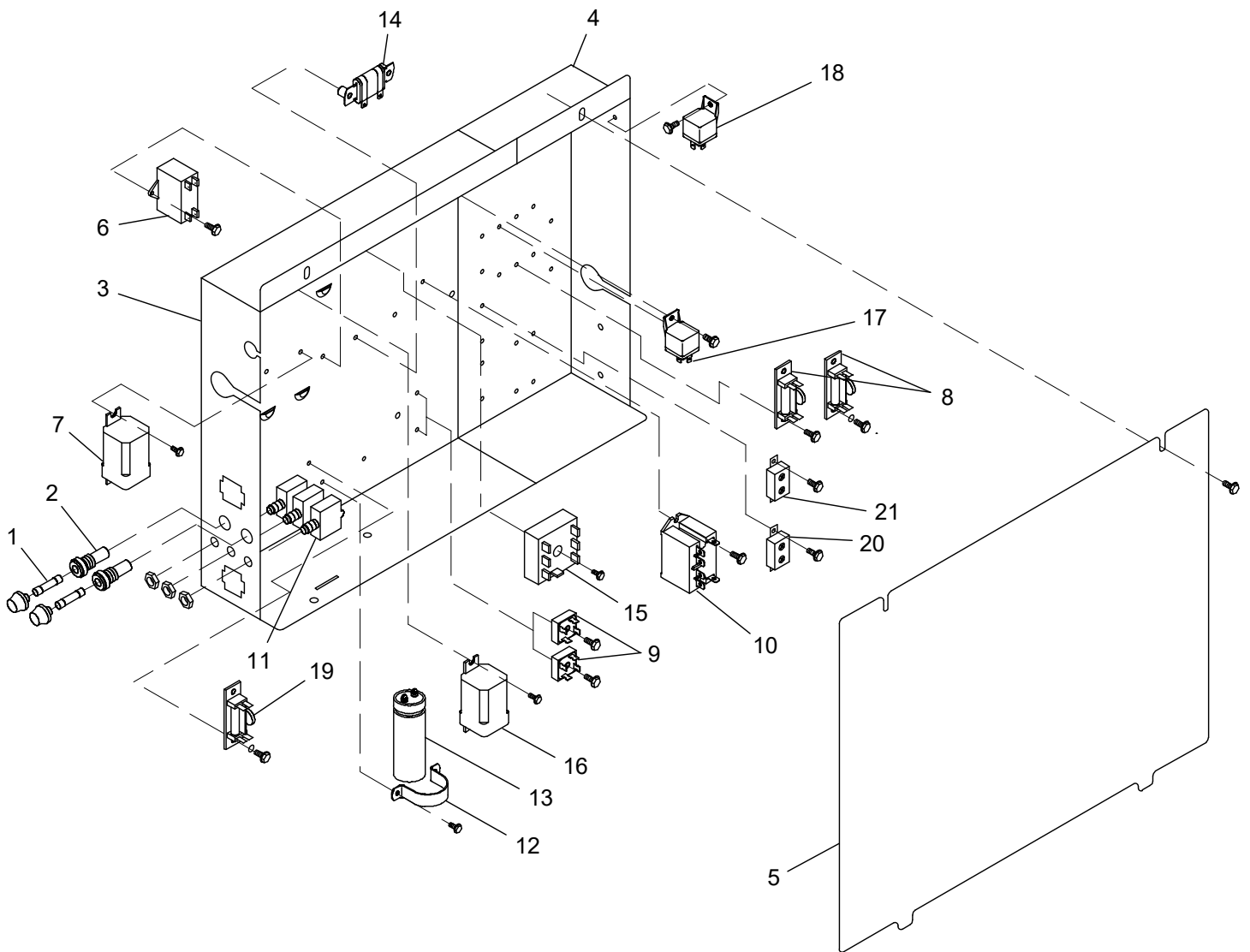
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/			MJ370729R - ZZ222222R	
95		~ 202130	Xfmr, Current Sensing	1
96		212944	Label, Stick Overlap Weld Ranges	1
97		272340	Label, Danger Using Generator Indoor (En/Fr/Sp-Sym)	1
/		190058	Nut, .250-20 U-Nut Multi-Thread	19
/		049525	Nut, 312-18 U-nut Multi-Thread	32
/		238650	Label, Hour/Fuel Meter Usage	1
/		272332	Label, Notice Do Not Use Ether (En/Fr-Sym)	1
/		227731	Label, Notice Do Not Use Ether (Trilingual)	1
/		282178	Label, Warning Breathing Diesel Engine Exhaust	1

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Control Box Assembly

Control Box Assembly

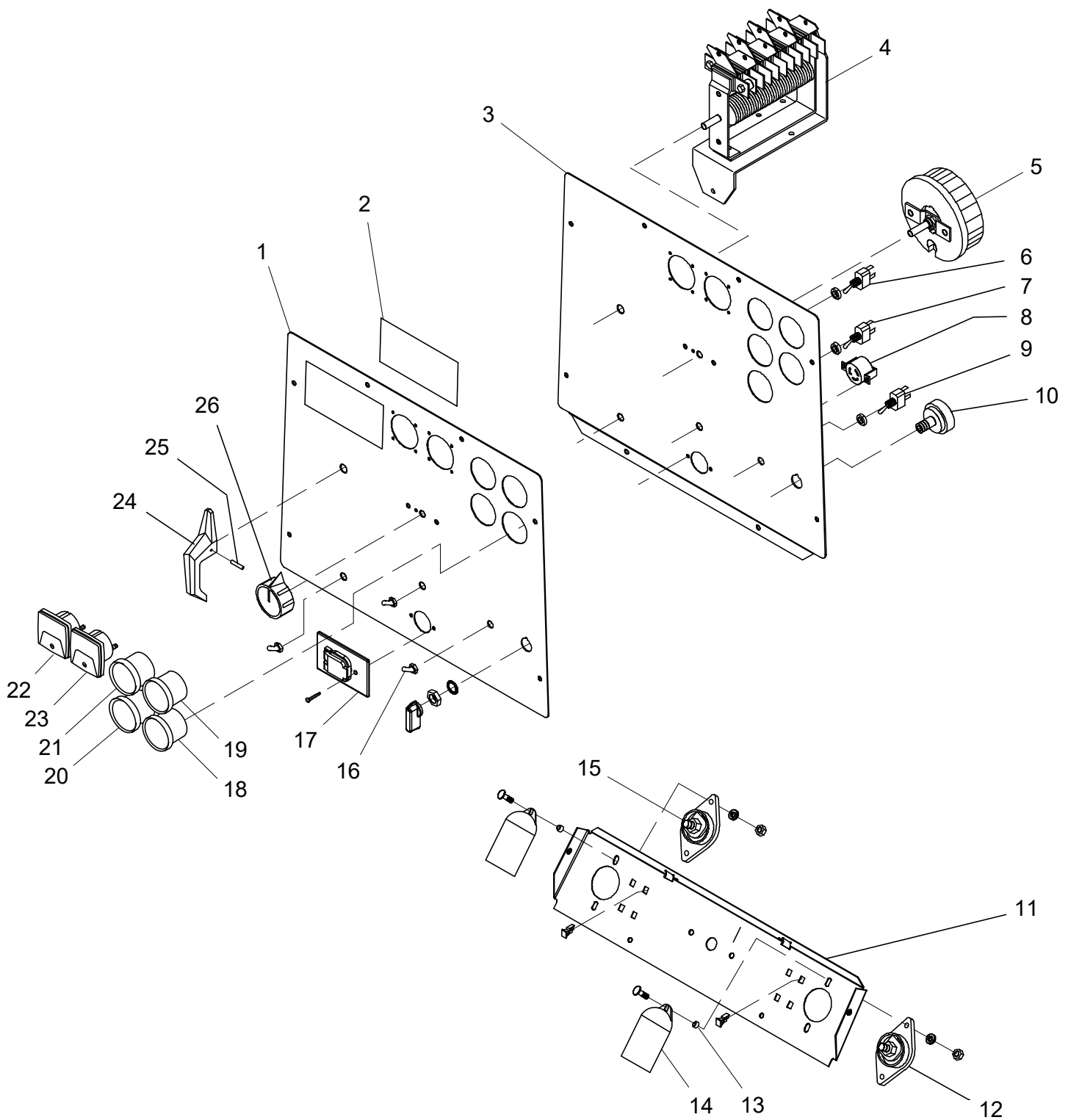
Item No.	Dia. Mkgs.	Part No.	Description	Qty
* 1	F1, F2	085874	Fuse, Mintr Cer Slo-Blo 10. Amp 250 Volt	2
2		046432	Holder, Fuse Mintr .250 x 1.250 Panel Mtg	2
3		201077	Control Box, Lh	1
4		201078	Control Box, Rh	1
5		201079	Cover, Control Box	1
6	C12	291014	Capacitor, Polyp Met Film 10. Uf 250 Vac 10%	1
7	CR7	188636	Relay, Ocv Control	1
8	D8/C8	189701	Diode/Capacitor Board	1
9	SR1, SR2	035704	Rectifier, Integ Bridge 40. Amp 800V	2
10	CR5	223710	Relay, Encl 12 Vdc Dpst-No 25A 6Pin Flange	1
11	CB11, 12, 13	139266	Supplementary Protector, Man Reset 1p 15A 250 Vac	3
12		177136	Clamp, Capacitor 1.375 Dia	1
13	C9	087110	Capacitor, Elctlt 240 uF 200 Vdc Can 1.39 Di	1
14	R6	141424	Resistor, Ww Fxd 30 W 25 Ohm Faston Te	1
15	PC7	~ 195706	Module, Pull To Idle, Two Output, 7 Pin	1
16	CR4	~ 113247	Relay, Encl 12 Vdc Dpdt 20A/120 Vac 8Pin Flange Mtg	1
17	CR6	~ 090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	1
18	CR3	~ 090104	Relay, Encl 12 Vdc Spst 30A/15 Vdc 5Pin Flange Mtg	1
19	D1/C1	189701	Diode/Capacitor Board	1
20	CB10	190374	Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1
/	CR1	252053	Relay, Encl 12 Vdc Spst 35A/14 Vdc 5 Pin	1
21	CB14	~ 205927	Circuit Breaker, Auto Reset 12 Vdc 12 Amp	1

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Panel, Front with Components

Panel, Front with Components

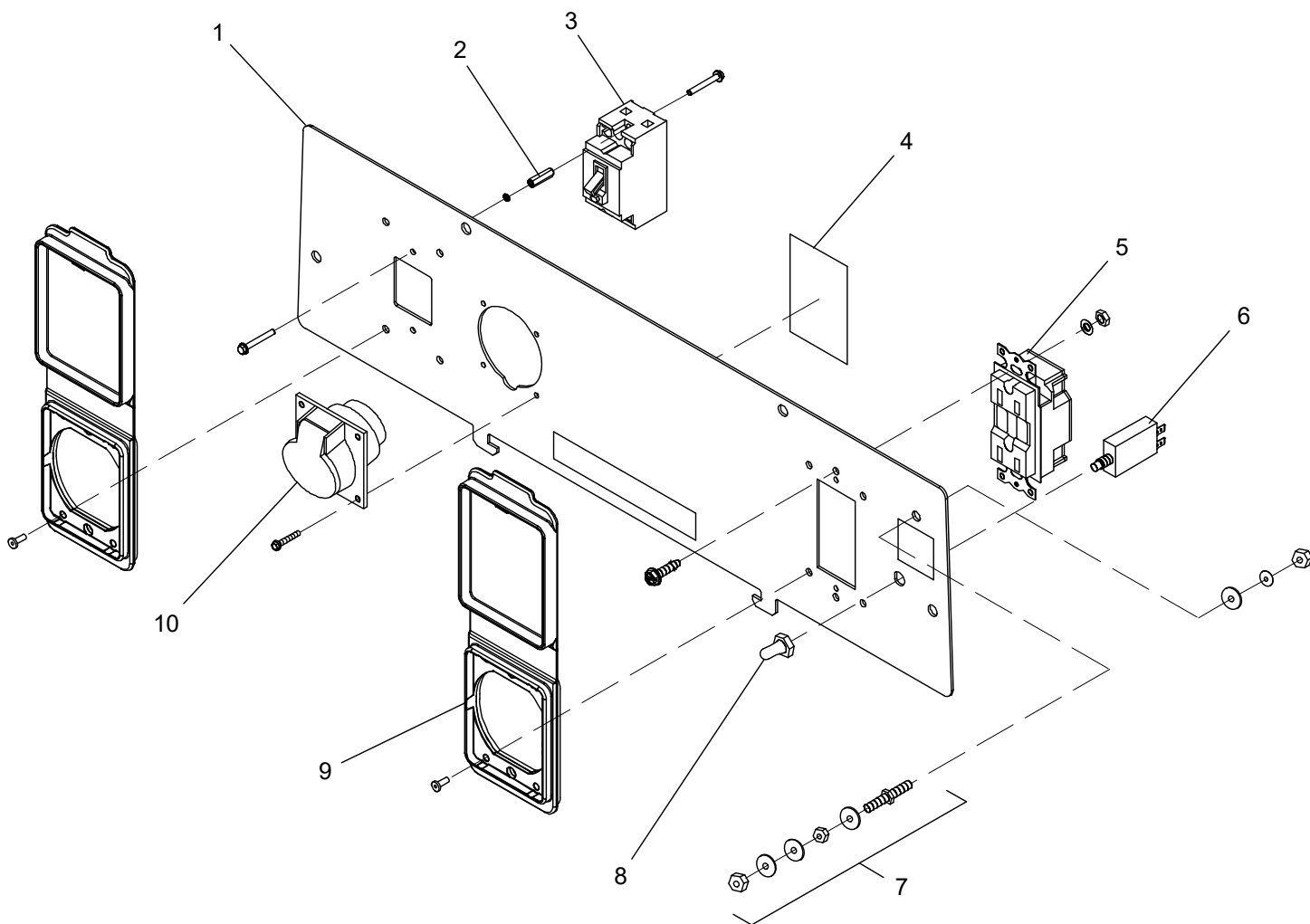
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		240162	Plate Screened, Ident Control Rating	
/			(When ordering this item, the nameplate should also be ordered)	1
2			Nameplate, Screened (Order by Model and Serial No.)	1
3		238616	Panel, Engine/Weld Control	1
4	S3	208278	Switch, Range/Changeover	1
/		192558	↓ Harness, Range	1
/	RC6	148389	→ Conn, Rect Univ 084 4P/S 1row Rcpt Cable/Panel Lkg	1
5	R1	188635	Rheostat, WW 300w 34 Ohm	1
6	S6	011622	Switch, Tgl Dpdt 15A 125 Vac (Included In Control Box Harness)	1
7	S5	011609	Switch, Tgl Spdt 15A 125 Vac On-None-On Spd Term Chr	1
8	RC13	032897	Receptacle, Twlk Grd 2p3w 15A 125V	1
9	S2	021467	Switch, Tgl Spst 3A 250V Off-None-(On) Spd Term	1
10	S1	217680	Switch, Ignition 4 Position w/Out Handle	1
/		207073	Lever, Ignition Switch	1
/		201244	Washer, Tooth .728 Id x 1.166 Od x .050T Stl Pld Int .688	1
11		201125	Panel, Mtg Terminal Pwr Output	1
12		241433	Terminal, Pwr Output Black	1
/		180735	Washer, Output Stud	2
13		181169	Spacer, Output Stud	2
14		186621	Boot, Generic Output Stud	2
15		241432	Terminal, Pwr Output Red	1
16		021385	Boot, Toggle Switch Lever	1
17		201045	Cover, Receptacle Twistlock	1
18		~ 193228	Meter, Volt Dc 8-18 Scale 2.250	1
19	FUEL/HM	232113	Gauge, Fuel Elec/Hour Meter	1
20		217084	Gauge, Coolant Temp 0-300 Deg F	1
/		195746	Sender, Coolant	1
21		217083	Gauge, Pressure Oil 0-100 Psi	1
/		195745	Switch, Oil Pressure	1
22		~ 164874	Volt Meter, w/Leads	1
23		~ 164873	Ammeter, w/Leads	1
24		189161	Handle, Switch Range	1
25		010647	Pin, Spring Cs .156 x 1.250	1
26		019602	Knob, Pointer	1
/		024103	Blank, Snap-In Nyl .750 Mtg Hole Black	1

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

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Auxiliary Power Group, Export Prior to MJ370729R

Auxiliary Power Group, Export Prior to MJ370729R

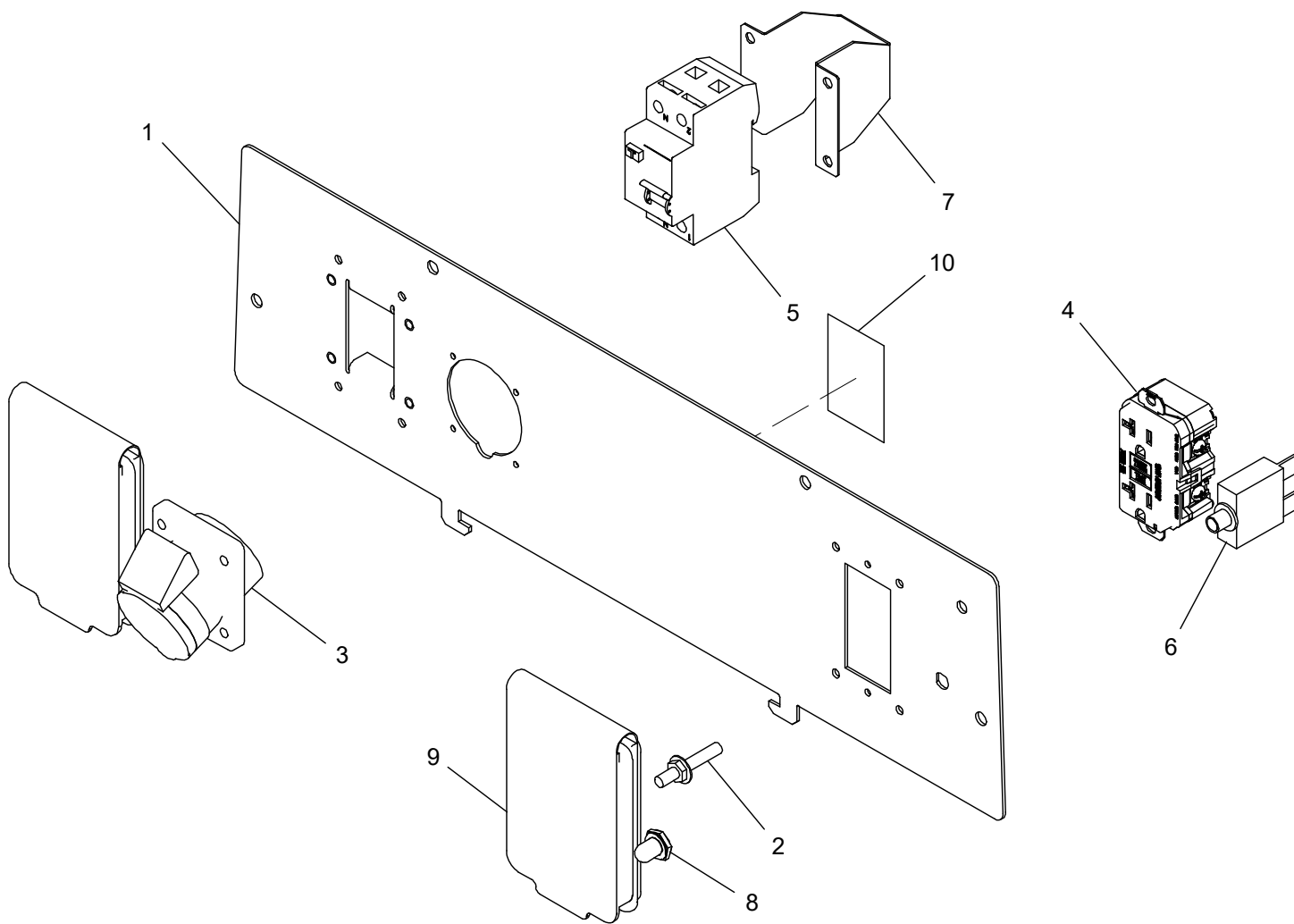
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		+ 223121	Panel, Aux Power (Export)	1
2		144844	Stand-off, No 6-32 x .875 Lg 250 Hex Al Fem	2
3	ELCB1	222991	Circuit Breaker, Elcb 16A 220V 0.030A Trip	1
4		272330	Label, Warning Electric Shock/Moving Parts (Sym)	1
* 5	GFCI1	280236	Receptacle, Gfci 15/20A	1
6	CB2	093996	Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	1
7		083030	Stud, Brs .250-20 x 1.750 w/Hex Collar	1
/		601836	Nut, .250-20 50 Hex .19H Brs	3
8		190323	Boot, Circuit Breaker Clear Hex Nut	1
9		209056	Cover, Receptacle w/Gasket	2
10	RC1	176355	Rcpt, Str 2p3w 16A 220V Flange Mtg	1

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Auxiliary Power Group, Export MJ370729R and following

Auxiliary Power Group, Export MJ370729R and following

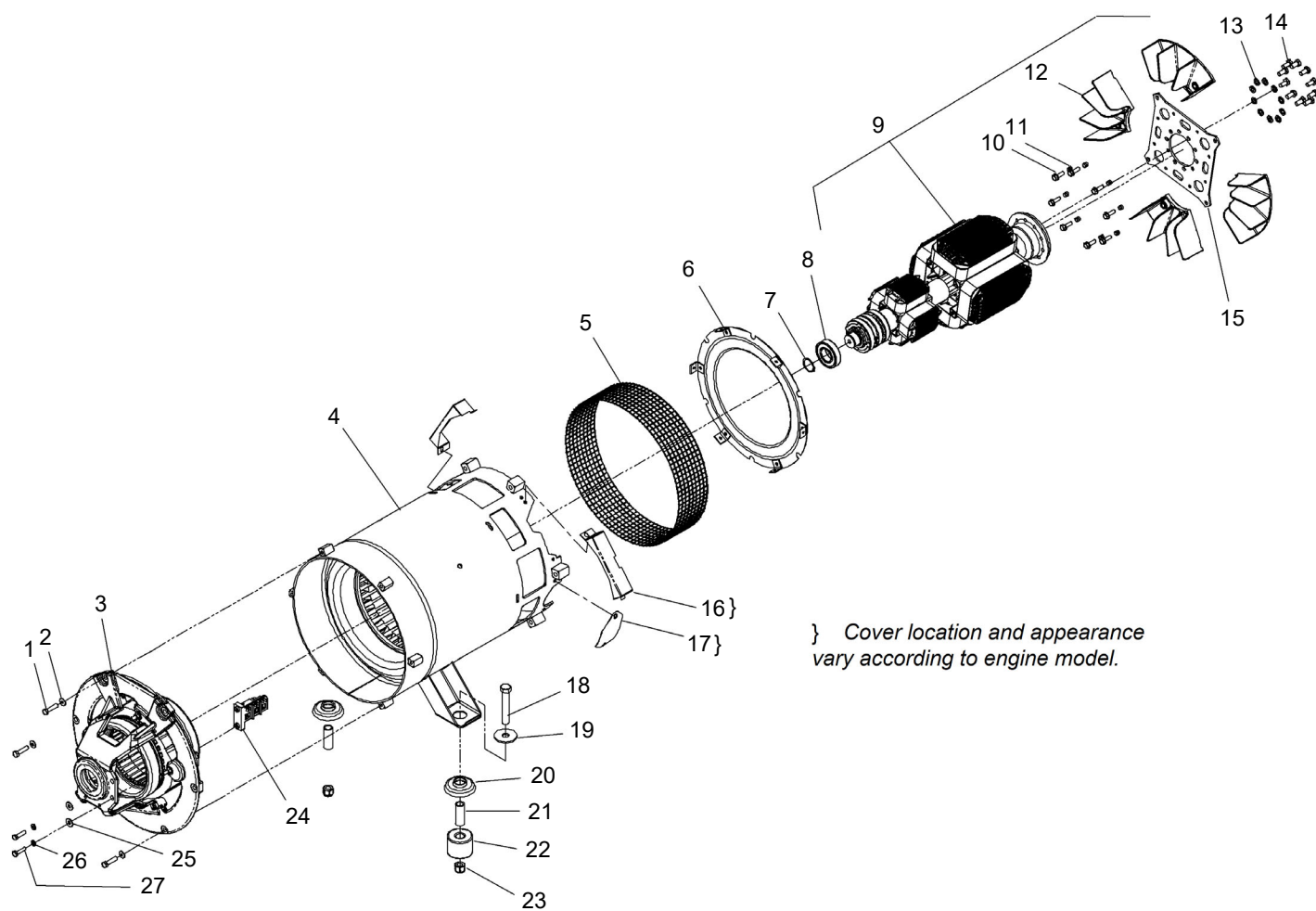
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		282740	Panel, Aux Power (Export)	1
2		197203	Grounding Stud Assy, Brass	1
3	RC1	176355	Rcpt, Str 2p3w 16A 220V Flange Mtg	1
/		282741	↓ Harness, Receptacle Auxiliary Power w/Elcb	1
* 4	GFCI1	280236	→ Receptacle, Gfci 15/20A	1
5	ELCB1	282446	→ Circuit Breaker, Rccb 16A 240V 0.030A Trip MJ370729R - MK270118R	1
5	ELCB1	285433	→ Circuit Breaker, Rccb 16A 230V 0.030A Trip A Type MK270119R - ZZ222222R	1
* 6	CB2	093996	→ Supplementary Pro, Man Reset 1P 20A 250 Vac Frict	1
7		282731	Bracket, Rccb Single Din Rail Mtg	1
8		190323	Boot, Circuit Breaker Clear Hex Nut	1
9		209056	Cover, Receptacle w/Gasket	2
10		272330	Label, Warning Electric Shock/Moving Parts (Sym)	1

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Generator

Generator

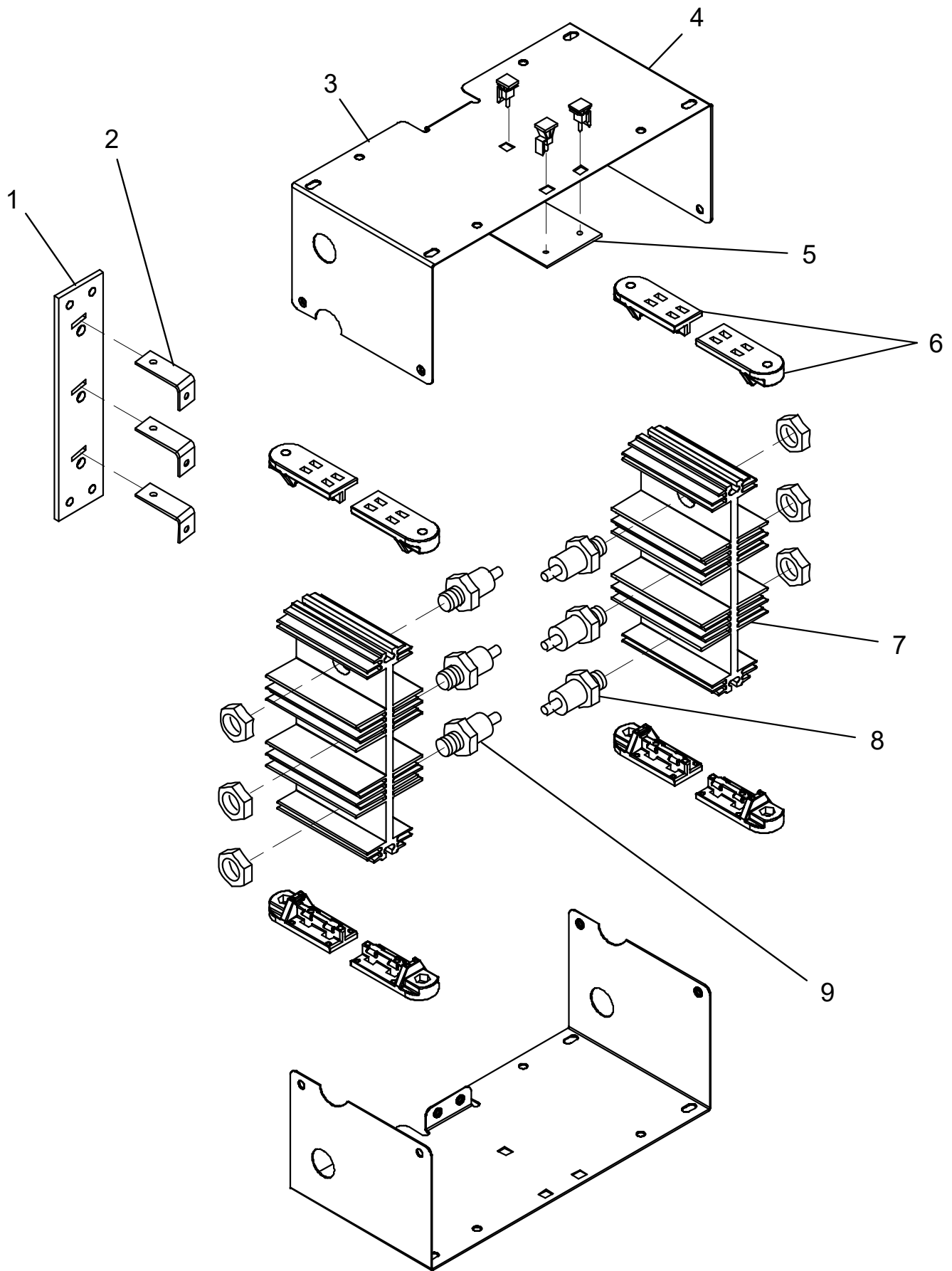
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		132053	Screw, .375-16 x 1.50 Hex Hd-Pln Gr5 Pld Blk	6
2		183387	Washer, Cone .380 Id x .860 Od x .109T Stl Pld 4000 Lbs	6
3		264056	↓ Endbell w/Exciter Stator	1
/		264058	→ Stator, Exciter/Aux Power	1
/		604538	→ Washer, Flat .344 Id x 0.688 Od x .065T Stl Pld Ansi .312	4
/		172684	→ Nut, .312-18 .50 Hex .27H Stl Pld Sem Cone Wshr .76D	4
/		257974	↓→ Kit, Endbell w/O-ring	1
/		203635	→→ Endbell, Gen	1
/		143220	→→ O-Ring, 2.859 Id x .139 Cs 70 Duro Viton	1
/		604537	Nut, .312-18 .50Hex .28h Stl Pld	4
/		604538	Washer, Flat .344 Id x 0.688 Od x .065T Stl Pld Ansi .312	4
/		261463	Screw, .312-18 x 4.50 Hex Hd-pln Stl Gr5 Pld Full	4
4		+ 215011	Stator, Weld/Power Assy Complete	1
5		190197	Guard, Generator Wire Mesh	1
/		172674	Spring, Ext .240 Od x .041 Wire x 3.500 Pld	2
6		039207	Baffle, Air Gen	1
/		172555	Screw, M10-1.5 x 50 Hex Hd-Pln 8.8 Pld	6
7		024617	Ring, Rtnng Ext 1.375 Shaft x .050 Thk	1
8		053390	Bearing, Ball Rdl Sgl Row 1.370 x 2.830 x .6	1
9		212996	Rotor, Generator	1
10		080389	Screw, .312-18 x 1.00 Hexwhd .66D Stl Pld Slffmg Tap-Rw	8
11		083883	Washer, Lock .402 Id x 0.709 Od x .087T Stl Pln Split 10mm	8
12		206242	Fan, Rotor Segmented Assy Gen	4
13		083883	Washer, Lock .402 Id x 0.709 Od x .087T Stl Pln Split 10mm	10
14		049026	Screw, M10-1.5 x 25 Hex Hd-Pln 8.8 Pln	10
15		210332	Plate, Flex Hubmount	1
16		191579	Cover, Starter Hole Perkins/Continental	1
17		191580	Cover, Starter Hole Deutz	1
/		199849	Screw, .625-11 x 4.00 Hex Hd-pln Gr5 Pld	3
18		071731	Washer, Flat .656 Id x 2.250 Od x .187T Stl Pld	2
19		071890	Retainer, Mount Eng/Gen	2
20		071730	Tubing, Stl .875 Od x 12Ga Wall x 2.500	2
21		083476	Mount, Eng/Gen Nprn .875 Id x 2.500 Od x 2.000 60 Dur	2
22		135205	Nut, .625-11 .94 Hex .77H Stl Pld Elastic Stop Nut	2
23		602159	Screw, .312-18 x .75 Hexwhd .66D Stl Pld Slffmg Tap-Rw	6
24		189142	Brushholder, Generator	1
* /		190823	Brush, Contact Elect .250 x .500 x 1.250 Grd Ay	3
/		208469	Clip, Spring	3
25		602242	Washer, Flat .375 Id x 0.875 Od x .083T Stl Pld Blk	2
26		602211	Washer, Lock .318 Id x 0.586 Od x .078T Stl Pld Split .312	2
27		604534	Screw, .312-18 x 1.25 Hex Hd-Pln Gr5 Pld	2

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Main Rectifier Assembly

Main Rectifier Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/	SR3	239784	↓ Rectifier	1
1		188137	→ Connection Board, Rectifier Ac	1
2		188517	→ Bus Bar, Connection Board	3
3		188135	→ Enclosure, Rectifier	2
4		134201	→ Stand-Off Support, Pc Card No. 6 Screw	3
5	PC3	269140	→ Circuit Card Assy, Protection	1
6		188136	→ Insulator, Heat Sink	8
7		188493	→ Heat Sink, Rectifier Al	2
8	D3, D5, D7	245097	→ Diode, Rect 300A 500V Do-9 (Straight) Modified	3
9	D2, D4, D6	245096	→ Diode, Rect 300A 500V Do-9 (Reverse) Modified	3

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Wiring Harnesses

Item No.	Dia. Mkgs.	Part No.	Description	Qty
/		238763	↓ Harness, Control Box, CC Weld Control	1
/	SR1, SR2	035704	→ Rectifier, Integ Bridge 40. Amp 800V	2
/	D1/C1	189701	→ Diode/Capacitor Board	1
/	RC4	047483	→ Conn, Rect Univ 084 15P/S 3Row Rcpt Cable/Panel Lkg	1
/	CB11, CB12, CB13	139266	→ Supplementary Protector, Man Reset 1p 15A 250 Vac	3
/	CR7	188636	→ Relay, Ocv Control	1
/		148850	→ Socket, Relay 5 Pin	1
/	S6	011622	→ Switch, Tgl Dpdt 15A 125 Vac (Included In Control Box Harness)	1
/	S5	011609	→ Switch, Tgl Spdt 15A 125 Vac On-None-On Spd Term Chr	1
/		211292	→ Conn, Pack 4p 1row Female	1
/		211293	→ Conn, Pack Terminal Position Assurance(Lock)	1
/		164617	→ Clip, Wiring Straight	3
/	S2	021467	→ Switch, Tgl Spst 3A 250V Off-None-(On) Spd Term	1
/		150316	→ Conn, Rect Univ 039 6P/S 3row Plug Cable Lkg	5
/	RC3	158466	→ Conn, Rect Univ 084 12P/S 3row Rcpt Cable/Panel Lkg	1
/	RC1	135133	→ Conn, Rect Univ 084 9p/S 3row Rcpt Cable/Panel Lkg	1
/		215013	↓ Harness, Unit Weld Control	1
/	PLG3	158465	→ Conn, Rect Unit 084 12P/S 3row Plug Cable Lkg	1
/		187654	→ Seal, Wire Univ 12p/S 3row	1
/	PLG6	114063	→ Conn, Rect Univ 084 4P/S 1Row Plug Cable Lkg	1
/		215659	↓ Harness, Engine Control	1
/	D10/C10, D11/C11	189701	→ Diode/Capacitor Board	2
/	CB10	190374	→ Circuit Breaker, Auto Reset 12 Vdc 40 Amp	1
/	CR1	252053	→ Relay, Encl 12 Vdc Spst 35A/14 Vdc 5 Pin	1
/		148850	→ Socket, Relay 5 Pin	1
/	PLG4	114062	→ Connector, Rect Univ 084 15P/S 3 Row Plug Cable Lkg	1
/		212116	→ Conn, Deutsch 2P 1Row Female Plug	3
/		212117	→ Conn, Deutsch Wedge Lock 2 Position	3
/	CR8	197325	→ Relay, Encl 12 Vdc Spst 70A 4Pin Flange Mtg	1
/		187655	→ Seal, Wire Univ 15p/S 3row	1
/		192558	↓ Harness, Range	1
/	RC6	148389	→ Conn, Rect Univ 084 4P/S 1row Rcpt Cable/Panel Lkg	1
/		223132	↓ Harness, Receptacle Auxiliary Power (Export Models)	1
/	GFCI1	246614	→ Receptacle, GFCI 15/20A MG060005R - MG510535R	1
/	GFCI1	277874	→ Receptacle, GFCI 15/20A (Filtered) MG510536R - ZZ222222R	1
/	CB3	139266	→ Supplementary Protector, Man Reset 1p 15A 250 Vac	1
/		190259	↓ Harness, Brush	1
/	PLG1	168071	→ Housing Plug Pins+Skts, (Service Kit)	1
/		187651	→ Seal, Wire Univ 9p/S 3row	1

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

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

Hardware is common and not available unless listed.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.