



PM- 285160 C

Syncrowave 400

(Non-CE) Effective with Serial Number NA250382L And Following

(CE) Effective with Serial Number NB040198L And Following



PARTS MANUAL



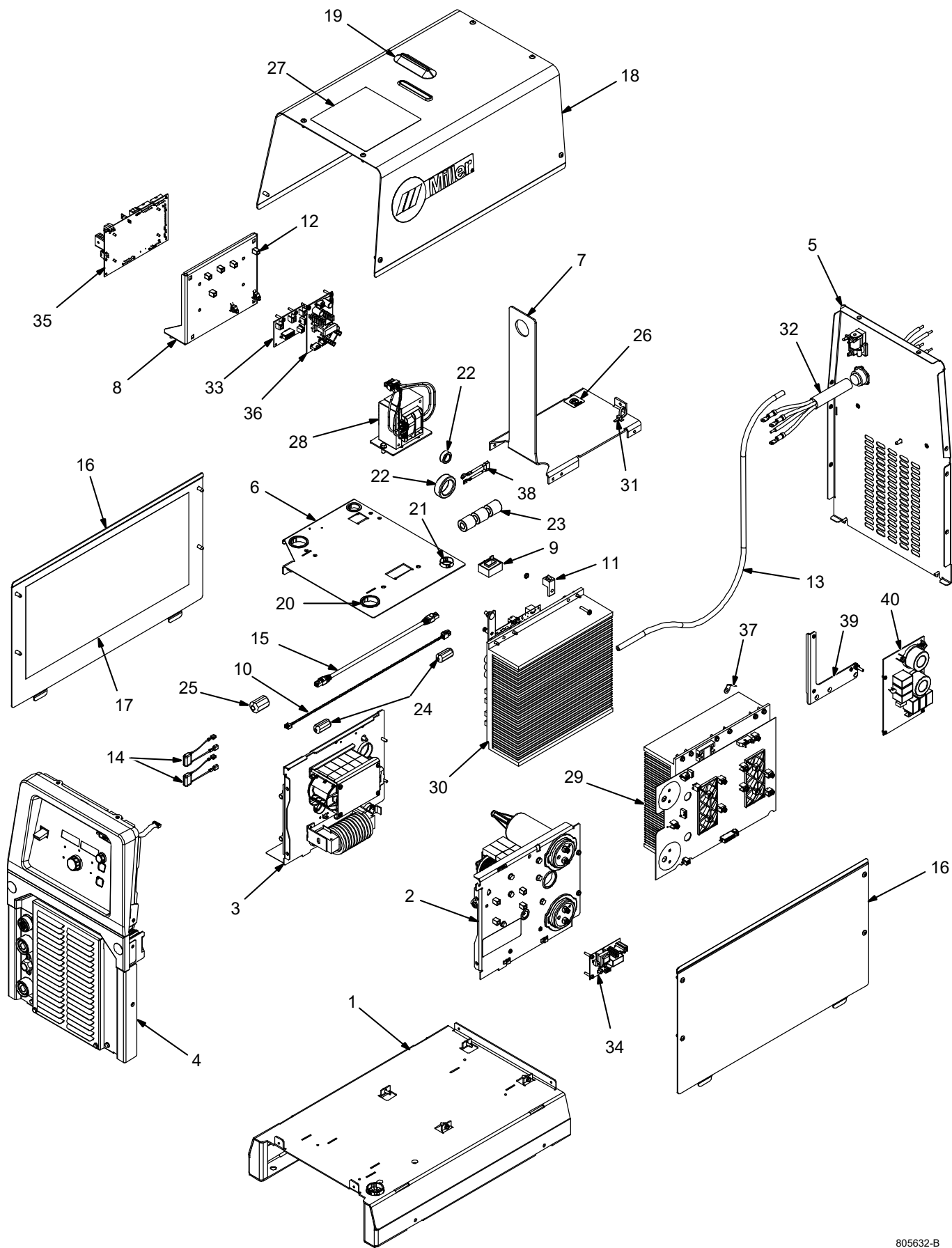
PM- 285160 C

Syncrowave 400

Effective with Serial Number
NA250382L - ZZ222222



PARTS MANUAL



805632-B

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284147	Base	1
2			Windtunnel, Rh w/Cmpnts	1
3			Windtunnel, Lh w/Cmpnts	1
4			Panel, Front w/Cmpnts	1
/		224521	Connection Kit, Dinse	1
5			Panel, Rear w/Cmpnts	1
6		287570	Panel, Top Windtunnel	1
7		285148	Lift Eye	1
8		287571	Bracket, Mtg Circuit Card Assy	1
9	HD1	279328	Transducer, Current 400A/1100A Module Supply V +5V	1
10		275299	Cable Assy, Hall Effect w/Plugs 19.000 In	1
11		213248	Lug, Univ w/Screw 2/0-14 Wire 266STD	1
12		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	5
13		284789	Hose, Polyurethane Black .208 Id x .406 Od x 32 In.	1
14	C22,C24	221707	Capacitor Assy	2
15		275127	Cable, Ethernet Cat5E Utp Rj45 12.000 In Lg (BLK)	1
16		284150	Panel, Side	2
17		224516	Insulator, Side	2
18		+ 213056	Wrapper, Top	1
19		213073	Seal, Lift Eye	1
20		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	2
21		057357	Bushing, Snap-In Nyl .937 Id x 1.125 Mtg Hole	2
22	L42	241026	Core, Ferrite 25.4mm Od x 15.5mm Id x 12.7mm LG	1
23	L43-45	276356	Core, Ferrite 2590mm Od x 1280mm Id x 2860mm Lg	3
24	L31-32	249747	Core, Ferrite Round Cable .201 Id Clamp-On Emi Supp	2
25	L33, L34	265451	Core, Ferrite Round Cable .400 Id Clamp-On Emi Supp	2
26		155436	Label, Ground/Protective Earth	1
27		280528	Label, Warning General Precautionary Static (En/Fr/Sp)	1
28	T3	284498	XFMR, Auto-XFMR Auto 480V/240V 650VA	1
28	T3	295980	XFMR, Control 480/600 VAC Pri 240 Sec 60Hz 500VA (600 VAC model only)	1
29			Heatsink, Primary Assy	1
30			Heat Sink, Secondary Assembly	1
31			Not used on this model	0
32		216880	Cable, Power 10 Ft 8Ga 4C	1
33	PC8	282814	Circuit Card Assy, Link Cooler Mtr	1
34	PC4	247046	Circuit Card Assy, Arc Starter	1
/		131204	Housing Plug + Skts, (Service Kit)	1
34		297132	Panel, Relay Mtg Sync 400 (600 VAC model only i. In place of PC4)	1
/	CR1	297133	Relay, Encl 240 VAC Dpdt 30A	1
/	CR2	206258	Relay, Encl 24 VDC Spst 30S/24 VDC 4-Pin Flange Mtg	1
35	PC2	291543	Kit, PC Board Process Control	1
/	PLG1	115093	Housing Plug+Pins (Service Kit)	1
/	PLG40	115094	Housing Plug + Skts, (Service Kit)	1

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

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Main Assembly

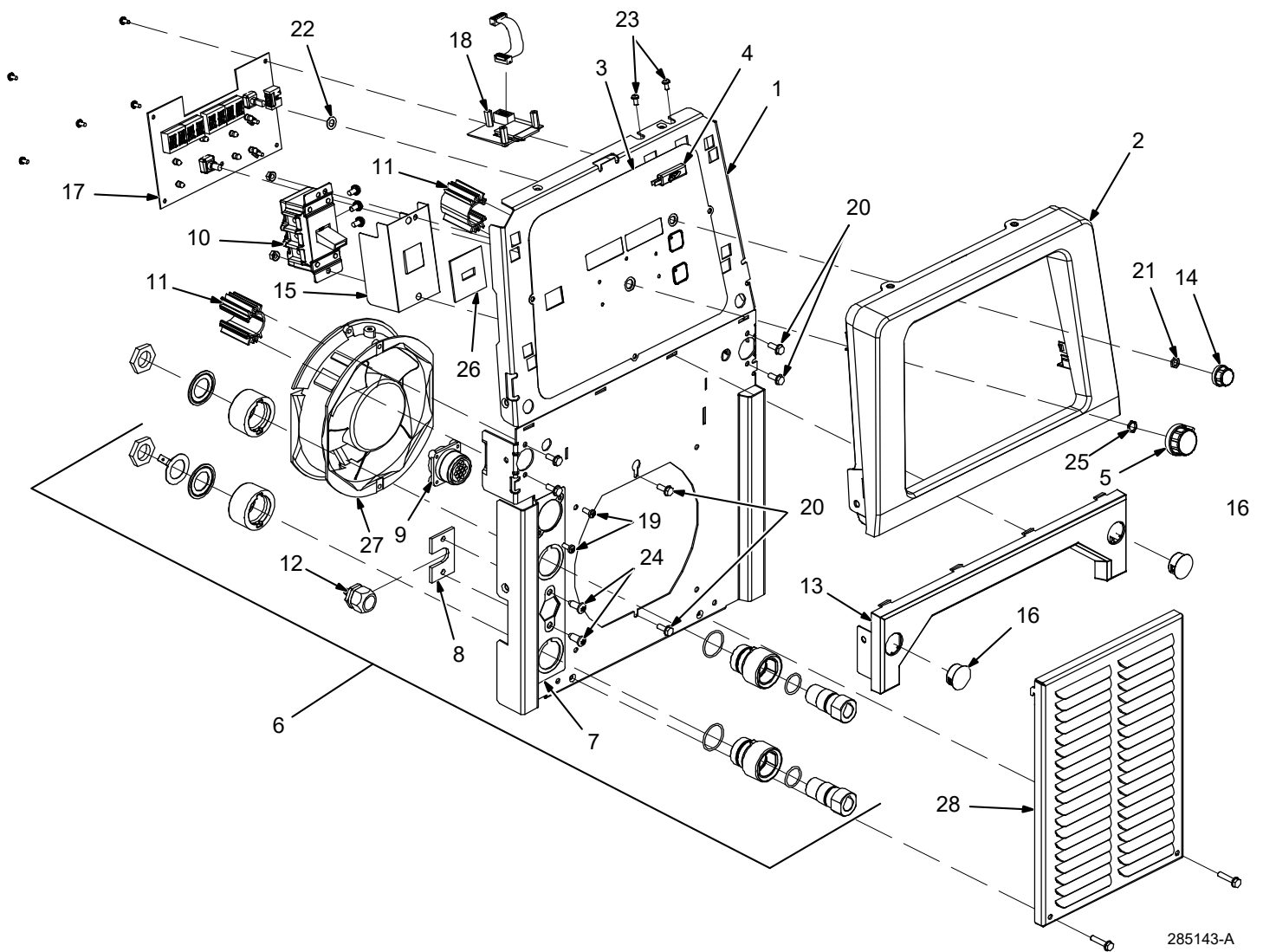
Item No.	Dia. Mkgs.	Part No.	Description	Qty
/	PLG60	131055	Housing Rcpt+Skts, (Service Kit)	1
/	PLG80	131204	Housing Plug + Skts, (Service Kit)	1
/	PLG100	131056	Housing Plug+Pins (Service Kit)	1
/	PLG140	131056	Housing Plug+Pins (Service Kit)	1
36	PC7	266586	Circuit Card Assy, Flyback 60w 940V In	1
/	PLG150	130203	Housing Plug+Pins (Service Kit)	1
/	PLG222	130204	Connector and Sockets	1
/	PLG4	158719	Housing Rcpt+Skts, (Service Kit)	1
/	PLG7	131052	Housing Rcpt+Skts, (Service Kit)	1
/	PLG10	131054	Housing Rcpt + Skts, (Service Kit)	1
/	PLG11	115093	Housing Plug+Pins (Service Kit)	1
37	C23	231208	Connector, Faston 1/4 Ring w/75 Deg Bend	1
38		233133	Capacitor Assy	1
39			Not used on this model	0
40			Not used on this model	0

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Panel, Front with Components

Panel, Front with Components

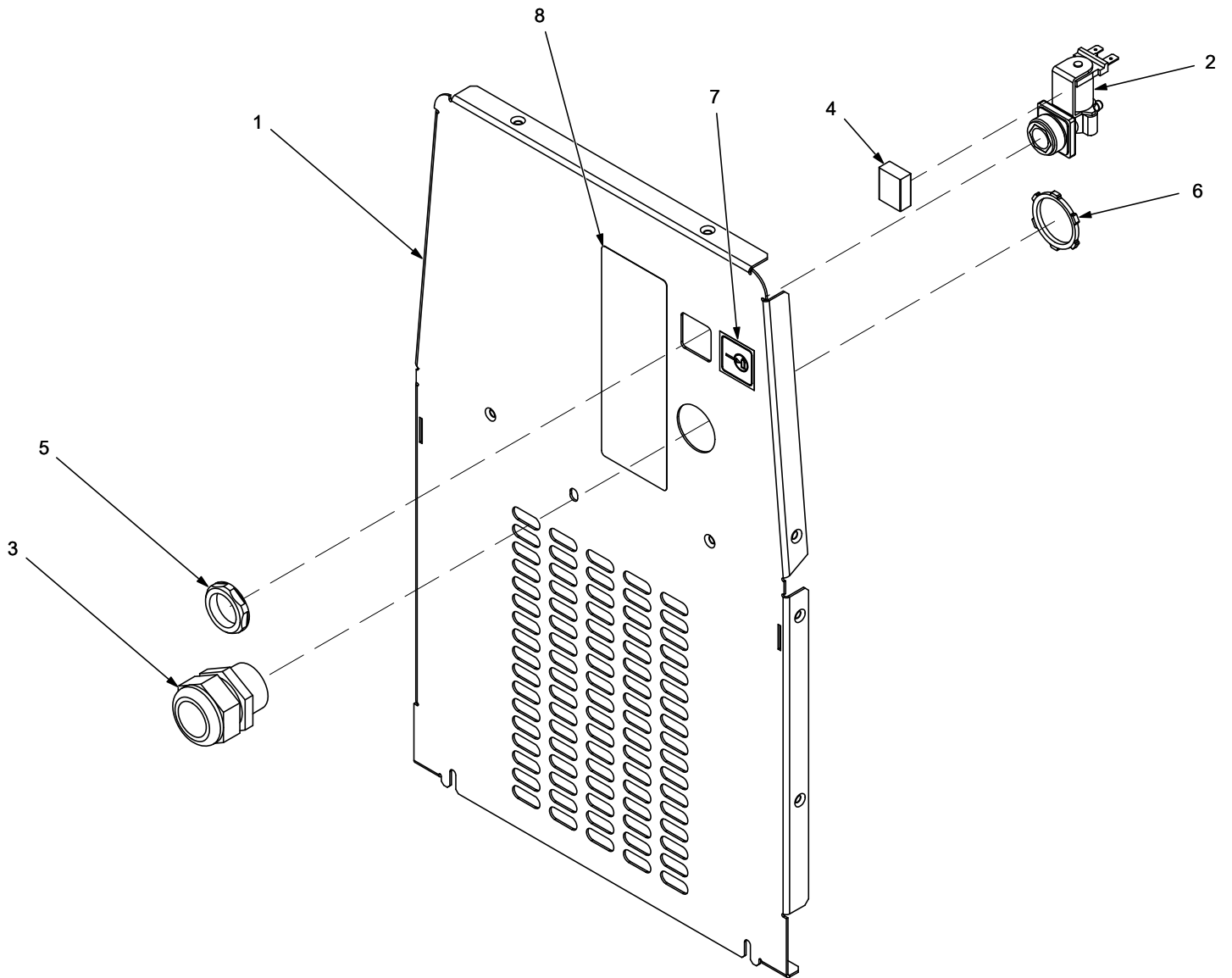
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285144	Panel, Front	1
2		213051	Panel, Front Top	1
3		285145	Nameplate, Miller	1
4		254052	Cover, SD Card	1
5		228546	Knob, Pointer 1.125 Dia x 6mm Id w/Spring Clip - 45mm Flat	1
6		279661	Rcpt Assy, Tw Lk Insul Fem (Dinse Type)	1
/		250043	Receptacle, Twist Lock Dinse .890 Od	2
/		274934	Insulator, Bulkhead Front	2
/		274935	Insulator, Bulkhead Rear	2
/		185718	O-Ring, 0.989 Id x 0.070H	2
/		186228	O-Ring, 0.739 Id x 0.070 H	2
/		178548	Terminal, Connector Friction	1
/		185717	Nut, M20-15 100Hex 19H Brs Locking	2
/		229338	Washer, Domed Load .812 Id x 1.450 Od x .070 Thk	2
7		284504	Plate, Indicator Front	1
8		230155	Bracket, Valve Mtg	1
9		275258	Lead Assy, Process Control To 14 Pin	1
/	PLG100	131058	Housing Plug + Skts	1
/	RC1	143976	Rcpt w/Skts, (Service Kit)	1
10	S1	244920	Switch, Tgl 3Pst 40A 600VAC Scr Term Wide Tgl	1
11		284541	Socket, Handle	2
12		231279	Fitting, Gas-clip Mount	1
13		284054	Bezel, Handle	1
14		230052	Knob, .840 Dia x 6mm Id w/Spring Clip - 4.5	1
15		271718	Insulator, Switch Power	1
16		000527	Blank, Snap-In Nyl .875 Mtg Hole Black	1
17	PC3	286234	Kit, Circuit Card Assy, User Interface	1
18	PC9	274828	Kit, PC Board SD Card Interface	1
19		242579	Screw, K40 x 10 Pan Hd-Phl Stl Pld Pt	2
20		128237	Screw, 010-32 x .50 Hexwhd 40D Stl Pld Slffmg Tap-Rw	6
21		185717	Nut, M20-15 100Hex 19H Brs Locking	1
22		254153	Washer, Flat .281 Id x 0.500 Od x .031T Stl Pld	1
23		226639	Screw, 006-32 x 31 Pan Hd-Phl Zc Pld Sems Ext T	7
24		227147	Screw, .250-20 x .62 Pan Hd-Torx Stl Pld Blk Tap-R	2
25		253773	Nut, M09 x 075 11mm Hex 2mm H Stl Pld	1
26		286299	Gasket, Switch	1
27		225166	Fan, Muffin 24Vdc 4000 Rpm 310 Cfm 6378 Mtg Holes	1
28		284148	Box, Louver	1

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285146-B

Panel, Rear with Components

Panel, Rear with Components

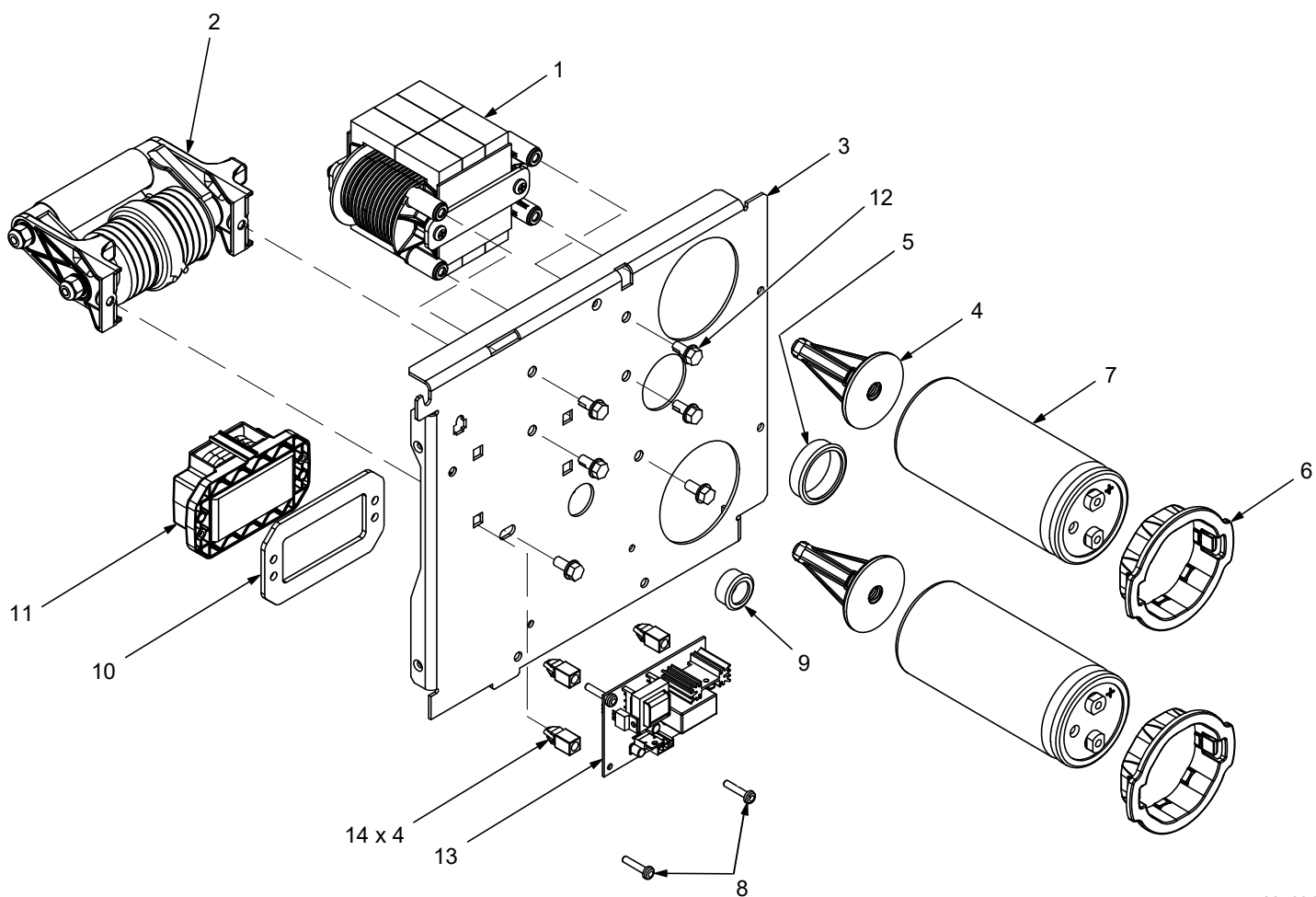
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		+ 285147	Panel, Rear (Order by Model and Serial Number)	1
2	GS1	238805	Valve, 24 VDC 2Way 125 PSI Custom Port 054 Orf w/Frict (Not in Maxstar STR)	1
3		215980	Bushing, Strain Relief .709/.984 Id x 1.375 Mtg Hole	1
4		278019	Gasket, Emi 10mm x 20mm x 25.4mm	1
5		137761	Nut, 750 Npt 1.31 Hex .27H Nyl Blk	1
6		182445	Nut, Conduit 1.000 Npt Pld 1.688 Od x .200 Thk	1
7		242834	Label, Gas In	1
8		294298	Label, Warning Input Connections/Shock	1

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285634-C

Wind Tunnel, Right Hand with Components

Wind Tunnel, Right Hand with Components

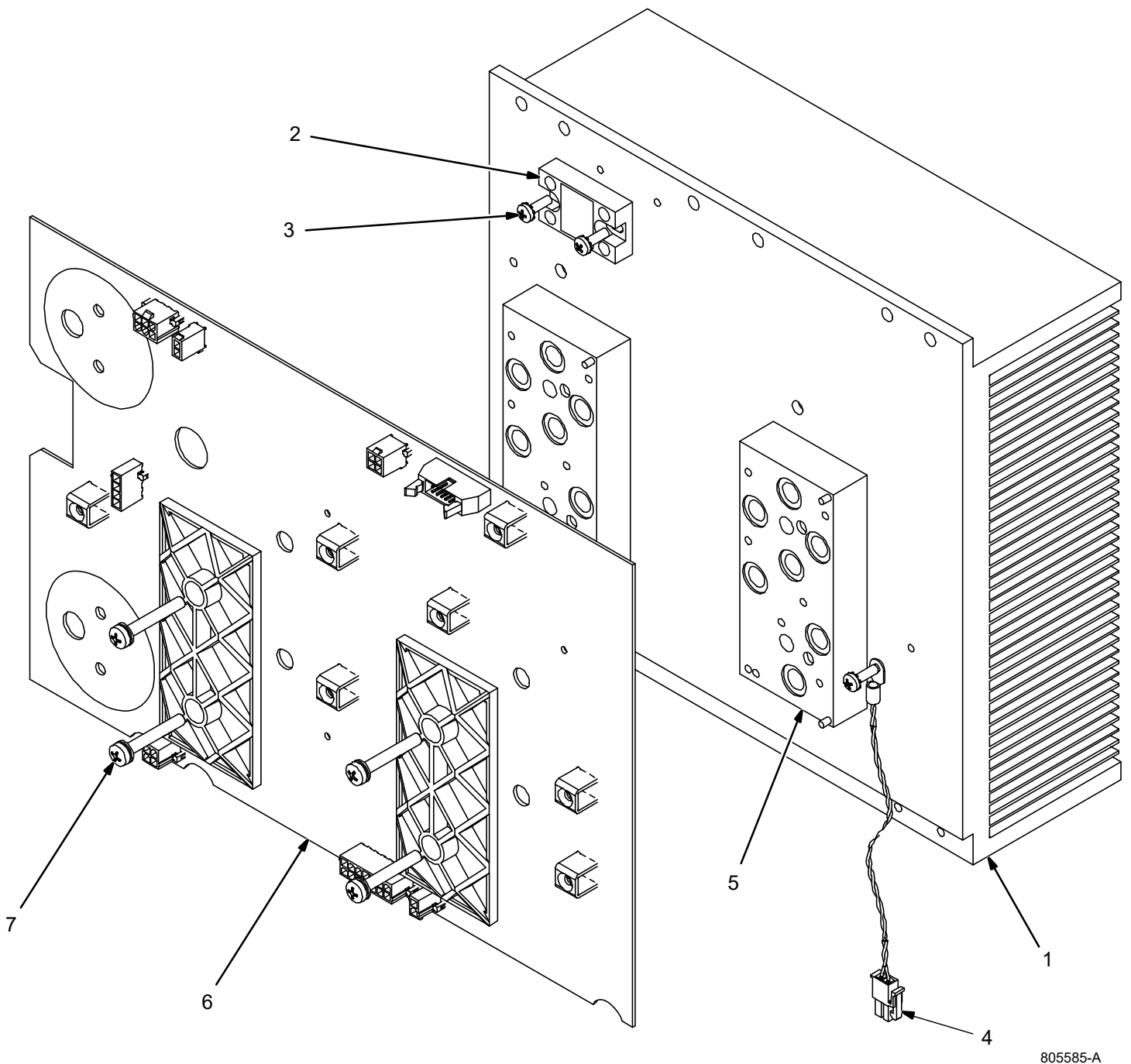
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	L11	276208	Inductor, Input	1
2	T2	242782	XFMR, HF Coupling	1
3		+ 274959	Panel, Right Windtunnel	1
4		216861	Stand-Off, Capacitor	2
5		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	1
6		216860	Grommet, Capacitor	2
7	C4,C20	245614	Capacitor, Elctlt 1800 UF 500 VDC Can 2.52 Dia	2
8		207418	Screw, K40 x 12 Pan Hd-Phi Stl Pld Pt Thread Forming	2
9		218004	Label, Warning Electric Shock/Exploding Parts	1
10		010493	Bushing, Snap-In Nyl .625 Id x .875 Mtg Hole	1
11		218566	Gasket, Inductor Mounting E70 Ferrite Core	1
12	L12	213348	Coil, Inductor (Pre-Regulator)	1
13		233913	Screw, .250-14 x .50 Hexwhd T-25 T/C SC ZC	6
14	PC4	247046	Circuit Card Assy, Arc Starter	1

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805585-A

Heat Sink, Primary Assembly (Prior to ND310106L)

Heat Sink, Primary Assembly (Prior to ND310106L)

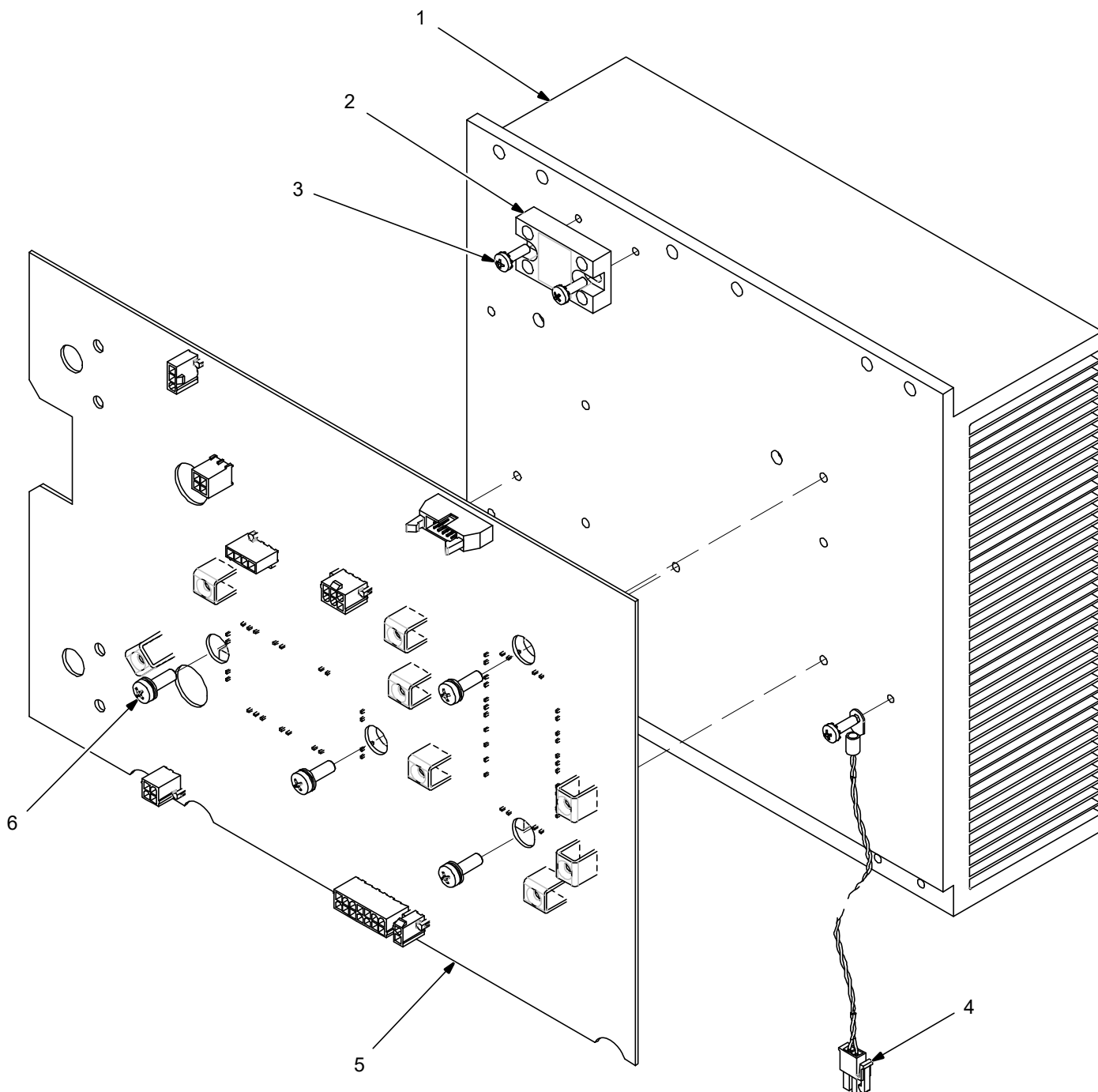
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		213346	Heatsink, Power Module	1
2	RM1	205751	Module, Power Resistor w/Plug	1
3		207451	Screw, 008-32 x .50 Pan Hd-Phl Stl Pld Sems	3
4	RT11	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
5	MOD1,2	261556	Kit, Input/Pre-Regulator And Inverter Module (Includes MOD1, MOD2)	1
6	PC1	287963	Kit, Circuit Card Assy, Power Interconnect	1
/	PLG101	131054	Housing Rcpt + Skts, (Service Kit)	1
/	PLG2	201665	Housing Plug + Skts (Service Kit)	1
/	PLG400	115093	Housing Plug+Pins (Service Kit)	1
/	PLG6	131056	Housing Plug+Pins (Service Kit)	1
/	PLG71	115094	Housing Plug + Skts, (Service Kit)	1
/	PLG8	279432	Housing Rcpt+Skts, (Service Kit)	1
7		229334	Screw, M5 - .8 x 35 Pan Hd-Phl Stl Pld Sems	4

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294699-A

Heatsink, Primary Assembly (Eff with ND310106L)

Heatsink, Primary Assembly (Eff with ND310106L)

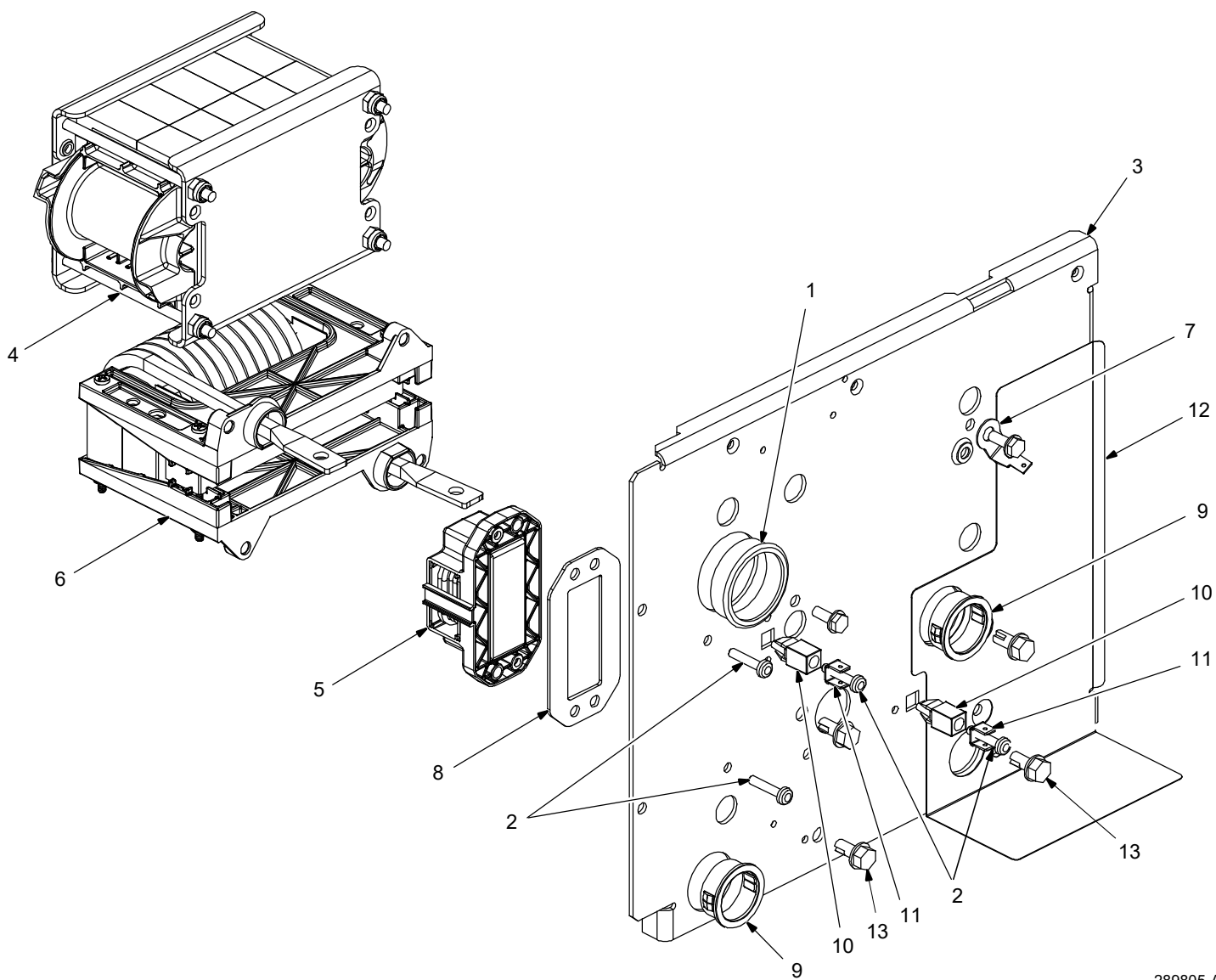
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		213346	Heatsink, Power Module	1
2	RM1	205751	Module, Power Resistor w/Plug	1
3		207451	Screw, 008-32 x .50 Pan Hd-Phl Stl Pld Sems	3
4	RT11	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
5	PC1	296477	Kit, Circuit Card Assembly Primary Interconnect	1
/	PLG101	131054	Housing Rcpt + Skts, (Service Kit)	1
/	PLG2	201665	Housing Plug + Skts (Service Kit)	1
/	PLG400	115093	Housing Plug+Pins (Service Kit)	1
/	PLG6	131056	Housing Plug+Pins (Service Kit)	1
/	PLG71	115094	Housing Plug + Skts, (Service Kit)	1
/	PLG8	279432	Housing Rcpt+Skts, (Service Kit)	1
6		257271	Screw, M5-.8 x 16 Pan Hd-Phl Stl Pld Sems	4

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289805-A

Wind Tunnel, Left Hand with Components

Wind Tunnel, Left Hand with Components

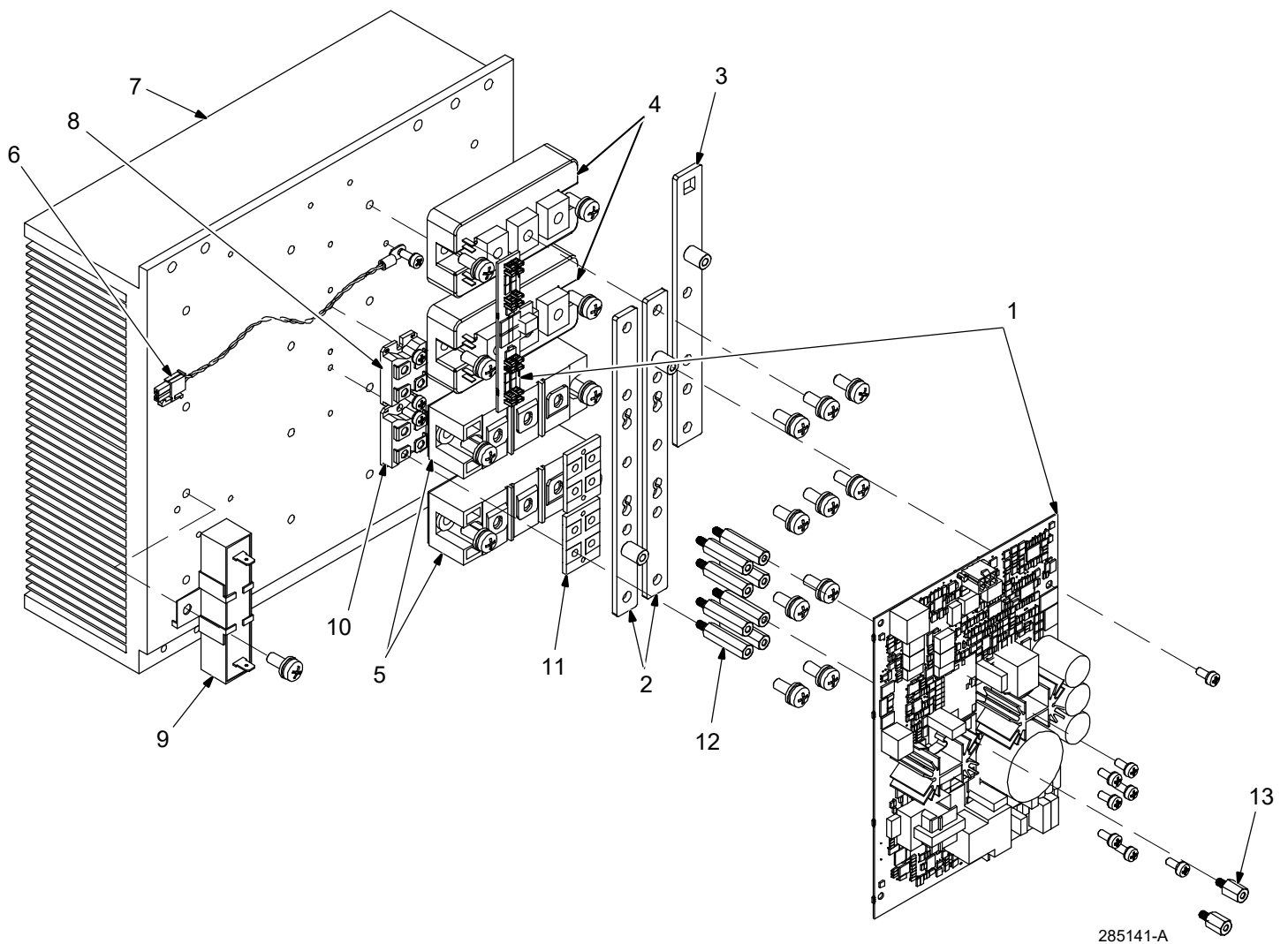
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	1
2		207418	Screw, K40 x 12 Pan Hd-Phi Stl Pld Pt Thread Forming	2
3		289804	Panel, Left Windtunnel	1
4	T1	274757	XFMR, Hf Litz/Litz w/Boost	1
5	L22	275390	Coil, Inductor (Boost)	1
6	L21	213356	Output Inductor Assy (Prior to NC140140L)	1
6	L21	288918	Inductor, Output (Eff w/NC140140L and following)	1
7		010493	Bushing, Snap-In Nyl .625 Id x .875 Mtg Hole	2
8		231208	Connector, Faston 1/4 Ring w/75 Deg Bend	1
9		227746	Gasket, Inductor Mounting	1
10		057357	Bushing, Snap-In Nyl .937 Id x 1.125 Mtg Hole	2
11		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	2
12		600760	Term, Frict .250 x .032 Uninsul Male .130 Stud Mtg 1pr	2
13		287694	Insulator, Electrode	1
14		233913	Screw, .250-14 x .50 Hexwhd T-25 T/C SC ZC (Eff w/NC140140L and following)	2

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Heat Sink, Secondary

Heat Sink, Secondary

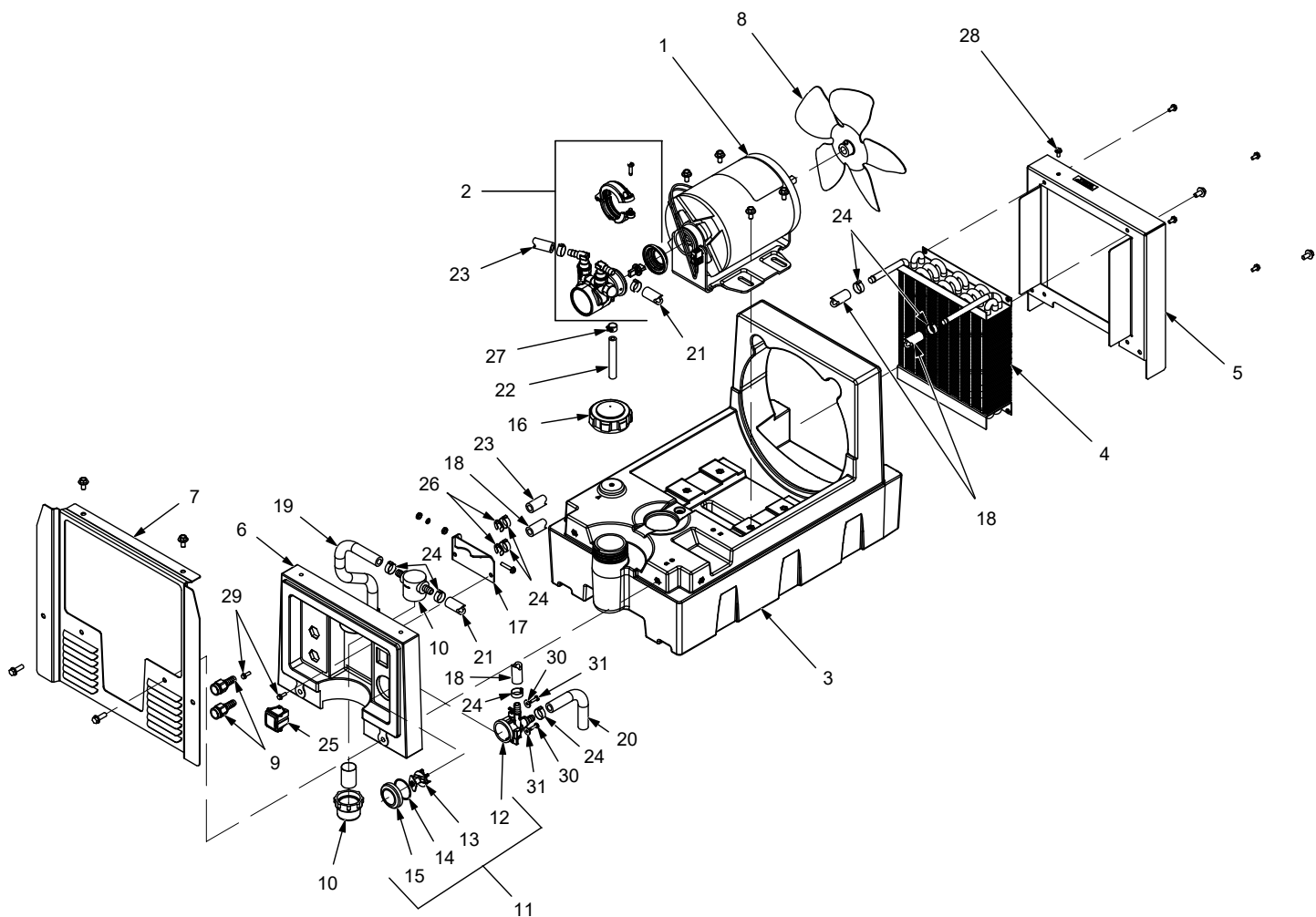
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	PC5	281145	Circuit Card Assy, Secondary	1
/	RC331	131054	Housing Rcpt + Skts, (Service Kit)	1
2		284152	Bus Bar, Cop .625 x 7.750 x .125 Thk	2
3		284153	Bus Bar, Cop .750 x 7.000 x .125 Thk	1
4	PM21, PM22	283390	Kit, IGBT	2
5	D21,D22	287896	Kit, Ultra Fast Diode	2
6	RT21	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
7		274755	Heatsink, Power Module	1
8	D23	201530	Kit, Diode Fast Recovery Bridge	1
9	R21	275003	Resistor, WW Fxd 50 W 10 Ohm 5% w/Ter	1
10	PM25	259420	Kit, IGBT	1
11		280831	Spacer, PWB	2
12		274924	Stand-Off, M4 x 0.7 x 30mm Lg 8mm Hex AL M&F	8
13		276732	Stand-Off, M4 x 0.7 x 12mm Lg 8mm AL M&F	1

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284536-E

Cooler Assembly

Cooler Assembly

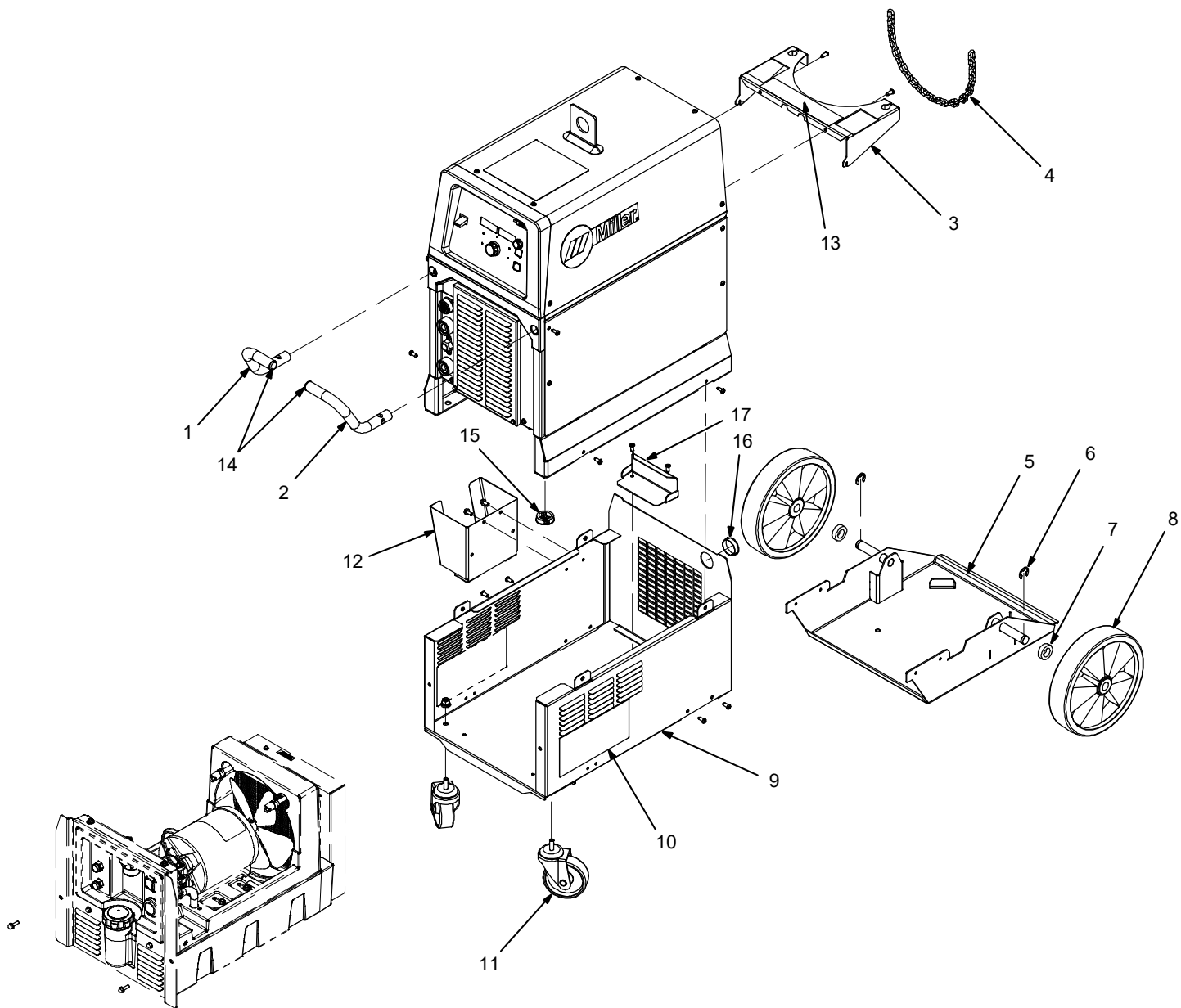
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285062	Motor, 1/4 Hp 230 Vac 50/60 Hz 1425/1725 Rpm Dual	1
2		290632	↓ Kit, Pump Coolant (Includes)	1
/		285200	→ Pump, Coolant w/Fittings	1
/		284058	→ Coupler, Drive	1
/		284057	→ Ring, Insulator	1
/		284051	→ Clamp, Pump	1
/		235065	→ Screw, 010-32 x .75 Pan Hd-Torx Stl Zc Pld	1
/		010323	→ Clamp, Hose .250-.625 Clp Dia	2
3		269910	Tank, Coolant	1
4		196515	Radiator, Heat Exchanger	1
5		284538	Plenum	1
6		286489	Panel, Front	1
7		284537	Panel, Front Louver	1
8		290198	Blade, Fan 9.000 5WG38Deg .500 Bore Cw Al	1
9		166571	Ftg, Coolant Barbed 3/8 Tbg 5/8-18 Female	2
10		166564	↓ Filter, In-line Low Profile 100 Screen 3/8 Hose Bar (Includes)	1
* /		239494	→ Screen, Filter	1
11		258437	↓ Kit, Indicator Flow (Includes)	1
/		010323	→ Clamp, Hose .250-.625 Clp Dia	2
/		226935	→ Housing, Flow Indicator	1
/		233606	→ Paddle, Flow Indicator	1
/		166566	→ O-Ring, 1.301 Id x .070 Cs	1
/		186005	→ Lens, Flow Indicator	1
12		166608	Cap, Tank Screw-on w/Vent	1
13		168254	Clip, Filtering Mounting	1
18		231400	Hose, Rubber Braided .375 Id x .650 Od x 17.250	1
19		255481	Hose, Pick-up Coolant w/Clamp	1
20		255483	Hose, Coolant Return w/Clamp	1
21		236084	Hose, Rubber Braided .375 Id x .650 Od x 10.500	1
22		196991	Hose, Nprn Brd No 1 x .250 Id x 3.00	1
23		255485	Hose, Rubber Braided .375 Id x .650 Od x 3.750	1
24		010323	Clamp, Hose .250-.625 Clp Dia	6
25		285201	Blank, Switch	1
26			Not used on this model	0
27		084173	Clamp, Hose .460-.545 Clp Dia Slftng	1
28		082193	Screw, 010-32 x .37 Hexwhd-Slt Stl Pld Slffmg Tap-Rw	5
29		129351	Screw, 008-32 x .50 Hexwhd .34D w/Spl Gndrng Stl Pld	2
30		602237	Washer, Flat .172 Id x 0.500 Od x .048T Stl Pld Blk	2
31		145217	Screw, K40 x 12 Pan Hd-Phl Stl Pld Pt Thread Forming	2

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Cooler Running Gear Assembly

Cooler Running Gear Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285051	Handle, Left	1
2		284149	Handle, Right	1
3		+ 284535	Bracket, Bottle	1
4		210224	Chain, Straight Link 1/0 x 27.000 Zinc Pld	1
5		284533	Tray Assy, Bottle	1
6		121614	Ring, Rtng Ext .750 Shaft x .085 Thk E Style Pld	2
7		235506	Spacer	2
8		209869	Wheel, Poly-olefin 10 In Dia x 2.000 wide x .750	2
9		+ 284529	Base, Runner Assy	1
10		279881	Label, Warning General Precautionary Static (Eng/Fr/Sp)	2
11		008999	Caster, Swvl 4.00 In Polyolefin	2
12		223300	Holder, Foot Pedal	1
13		284182	Label, Warning Cylinder May Explode If Damaged	1
14		285052	Cap, Tube .875 Dia x .500 Lg	2
15		245520	Bushing, Snap-In Nyl 1.062 Id X 1.500 Mtg Hole Cent	1
16		006086	Blank, Snap-In Nyl 1.500 Mtg Hole Black	1
17		286577	Bracket, Mtg Cooler	1

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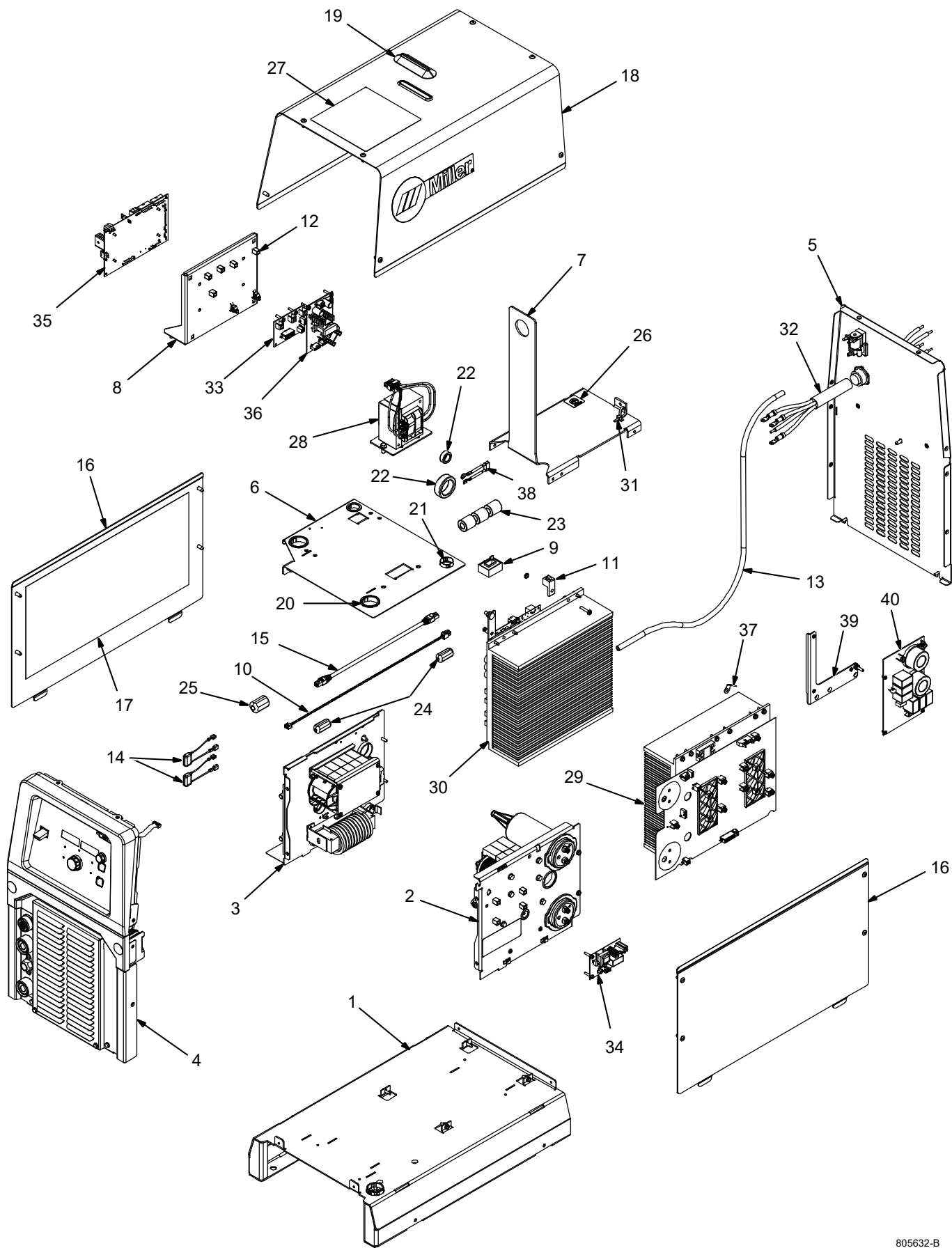
PM- 285160 C

Syncrowave 400 CE

Effective with Serial Number
NB040198L - ZZ222222



PARTS MANUAL



805632-B

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284147	Base	1
2			Windtunnel, Rh w/Cmpnts	1
3			Windtunnel, Lh w/Cmpnts	1
4			Panel, Front w/Cmpnts	1
/		224521	Connection Kit, Dinse	1
5			Panel, Rear w/Cmpnts	1
6		287570	Panel, Top Windtunnel	1
7		285148	Lift Eye	1
8		287571	Bracket, Mtg Circuit Card Assy	1
9	HD1	279328	Transducer, Current 400A/1100A Module Supply V +5V	1
10		275299	Cable Assy, Hall Effect w/Plugs 19.000 In	1
11		213248	Lug, Univ w/Screw 2/0-14 Wire 266STD	1
12		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	5
13		284789	Hose, Polyurethane Black .208 Id x .406 Od x 32 In.	1
15		275127	Cable, Ethernet Cat5E Utp Rj45 12.000 In Lg (BLK)	1
16		284150	Panel, Side	2
17		224516	Insulator, Side	2
18		+ 213056	Wrapper, Top	1
19		213073	Seal, Lift Eye	1
20		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	2
21		057357	Bushing, Snap-In Nyl .937 Id x 1.125 Mtg Hole	2
22	L42	288905	Core, Toroid Nano 2690MM Id 4840MM Od 1820MM T	1
23			Not used on this model	1
24	L31-32	249747	Core, Ferrite Round Cable .201 Id Clamp-On Emi Supp	2
25	L33, L34	265451	Core, Ferrite Round Cable .400 Id Clamp-On Emi Supp	2
26		155436	Label, Ground/Protective Earth	1
27		179310	Label, General Precautionary Wordless Intl Small	1
28	T3	288572	XFMR, Auto-XFMR Auto 400V/240V 650VA	1
29			Heatsink, Primary Assy	1
30			Heat Sink, Secondary Assembly	1
31		235496	Cable Tie, 0.06-2.000 Bundle Dia Tree Style Push Mount Mtg Hole Dia .246-.276 (CE)	1
32		278248	Cable, Power	1
33	PC8	282814	Circuit Card Assy, Link Cooler Mtr	1
34	PC4	247046	Circuit Card Assy, Arc Starter	1
/		131204	Housing Plug + Skts, (Service Kit)	1
35	PC2	291543	Kit, PC Board Process Control (Prior to NC330129L)	1
35	PC2	294468	Kit, PC Board Process Control (Eff w/NC330129L)	1
/	PLG1	115093	Housing Plug+Pins (Service Kit)	1
/	PLG40	115094	Housing Plug + Skts, (Service Kit)	1
/	PLG60	131055	Housing Rcpt+Skts, (Service Kit)	1
/	PLG80	131204	Housing Plug + Skts, (Service Kit)	1
/	PLG100	131056	Housing Plug+Pins (Service Kit)	1
/	PLG140	131056	Housing Plug+Pins (Service Kit)	1

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

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Main Assembly

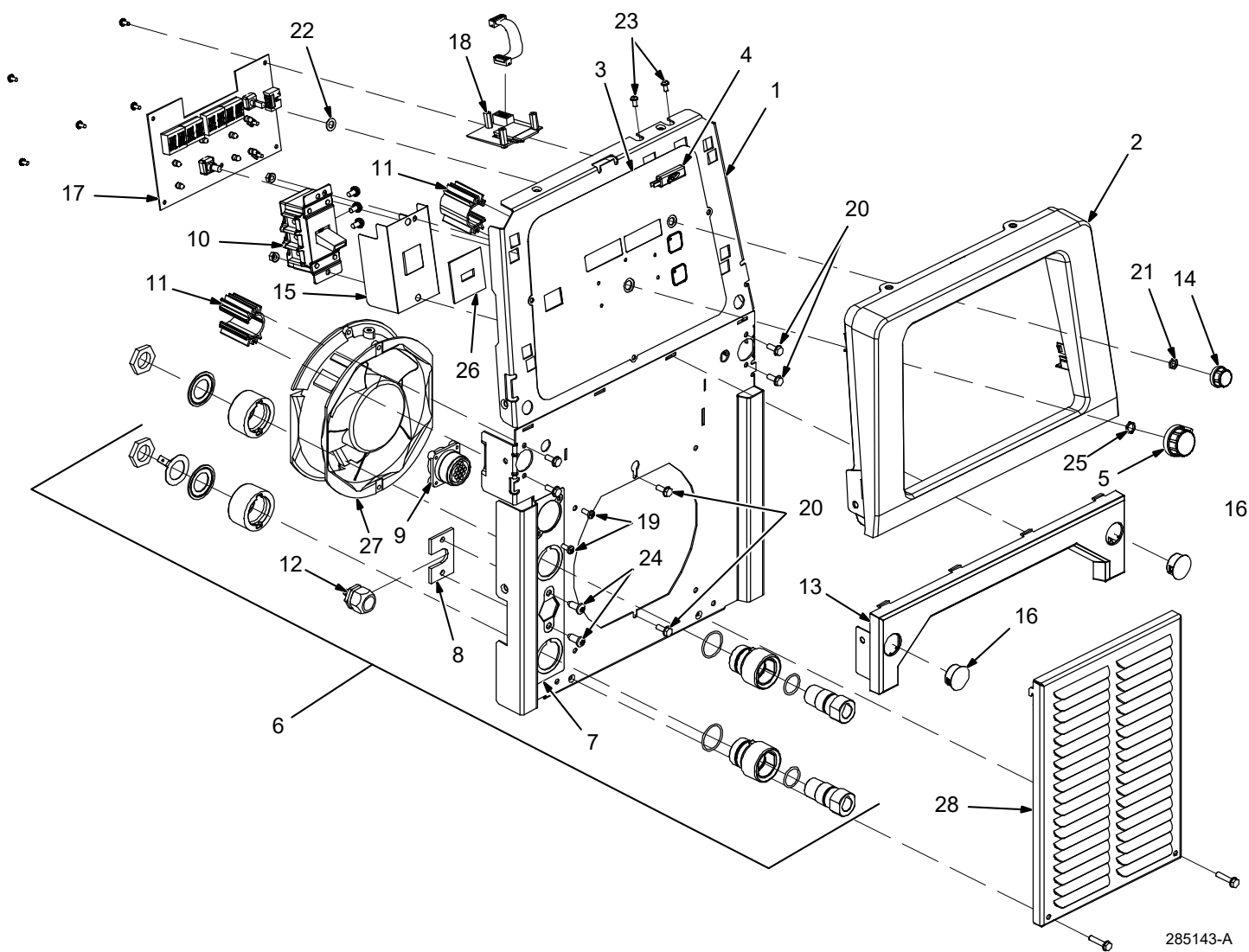
Item No.	Dia. Mkgs.	Part No.	Description	Qty
36	PC7	266586	Circuit Card Assy, Flyback 60w 940V In	1
/	PLG150	130203	Housing Plug+Pins (Service Kit)	1
/	PLG222	130204	Connector and Sockets	1
/	PLG4	158719	Housing Rcpt+Skts, (Service Kit)	1
/	PLG7	131052	Housing Rcpt+Skts, (Service Kit)	1
/	PLG10	131054	Housing Rcpt + Skts, (Service Kit)	1
/	PLG11	115093	Housing Plug+Pins (Service Kit)	1
37		231208	Connector, Faston 1/4 Ring w/75 Deg Bend	1
38	C23	233133	Capacitor Assy	1
39		277569	Bracket, Filter Board	1
40	PC10	279206	Circuit Card Assy, Filter	1

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Panel, Front with Components

Panel, Front with Components

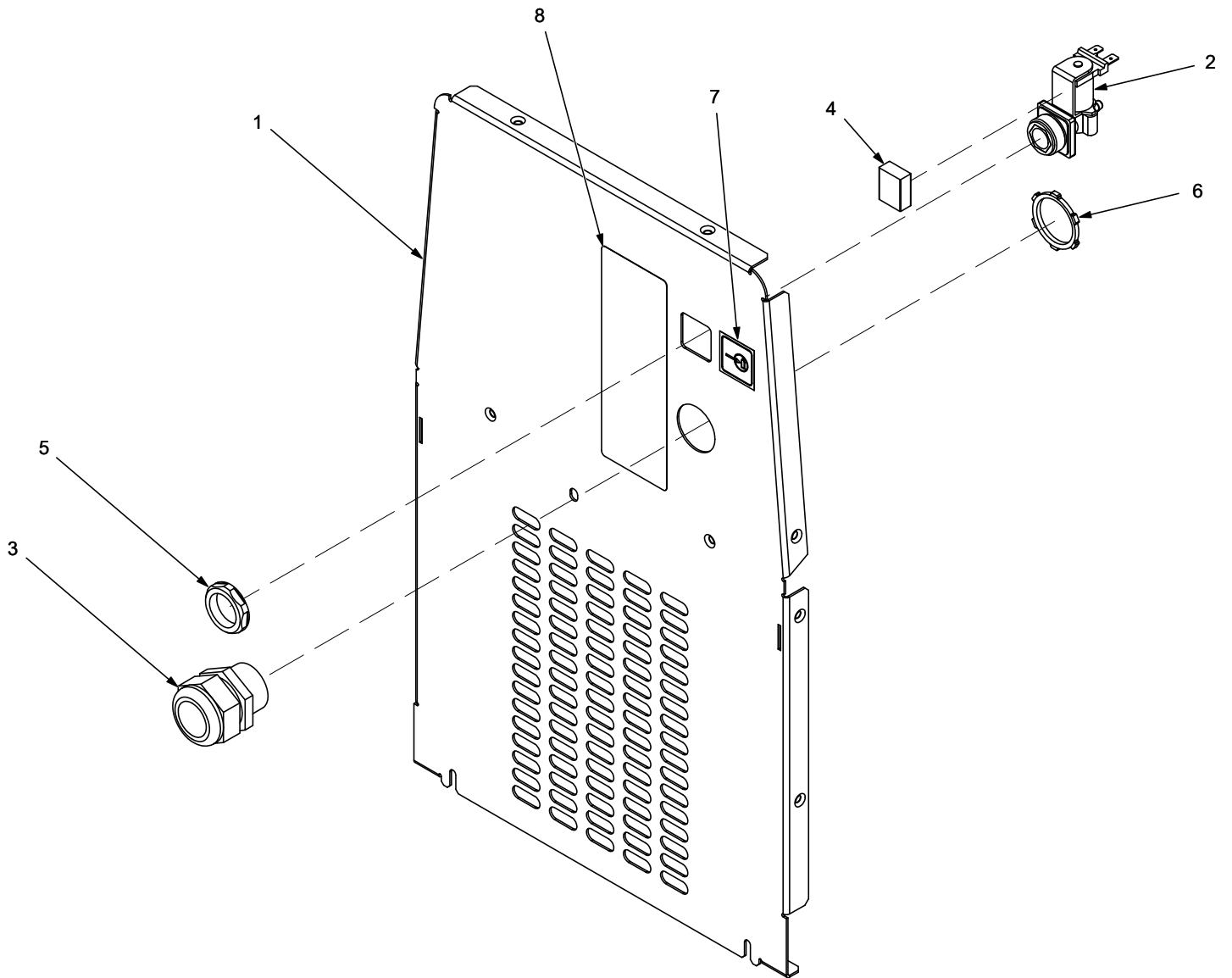
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285144	Panel, Front	1
2		213051	Panel, Front Top	1
3		285145	Nameplate, Miller	1
4		254052	Cover, SD Card	1
5		228546	Knob, Pointer 1.125 Dia x 6mm Id w/Spring Clip - 45mm Flat	1
6		279661	Rcpt Assy, Tw Lk Insul Fem (Dinse Type)	1
/		250043	Receptacle, Twist Lock Dinse .890 Od	2
/		274934	Insulator, Bulkhead Front	2
/		274935	Insulator, Bulkhead Rear	2
/		185718	O-Ring, 0.989 Id x 0.070H	2
/		186228	O-Ring, 0.739 Id x 0.070 H	2
/		178548	Terminal, Connector Friction	1
/		185717	Nut, M20-15 100Hex 19H Brs Locking	2
/		229338	Washer, Domed Load .812 Id x 1.450 Od x .070 Thk	2
7		284504	Plate, Indicator Front	1
8		230155	Bracket, Valve Mtg	1
9		275258	Lead Assy, Process Control To 14 Pin	1
/	PLG100	131058	Housing Plug + Skts	1
/	RC1	143976	Rcpt w/Skts, (Service Kit)	1
10	S1	244920	Switch, Tgl 3Pst 40A 600VAC Scr Term Wide Tgl	1
11		284541	Socket, Handle	2
12		231279	Fitting, Gas-clip Mount	1
13		284054	Bezel, Handle	1
14		230052	Knob, .840 Dia x 6mm Id w/Spring Clip - 4.5	1
15		271718	Insulator, Switch Power	1
16		000527	Blank, Snap-In Nyl .875 Mtg Hole Black	1
17	PC3	286234	Kit, Circuit Card Assy, User Interface	1
18	PC9	274828	Kit, PC Board SD Card Interface	1
19		242579	Screw, K40 x 10 Pan Hd-Phi Stl Pld Pt	2
20		128237	Screw, 010-32 x .50 Hexwhd 40D Stl Pld Slffmg Tap-Rw	6
21		185717	Nut, M20-15 100Hex 19H Brs Locking	1
22		254153	Washer, Flat .281 Id x 0.500 Od x .031T Stl Pld	1
23		226639	Screw, 006-32 x 31 Pan Hd-Phi Zc Pld Sems Ext T	7
24		227147	Screw, .250-20 x .62 Pan Hd-Torx Stl Pld Blk Tap-R	2
25		253773	Nut, M09 x 075 11mm Hex 2mm H Stl Pld	1
26		286299	Gasket, Switch	1
27		225166	Fan, Muffin 24Vdc 4000 Rpm 310 Cfm 6378 Mtg Holes	1
28		284148	Box, Louver	1

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

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285146-B

Panel, Rear with Components

Panel, Rear with Components

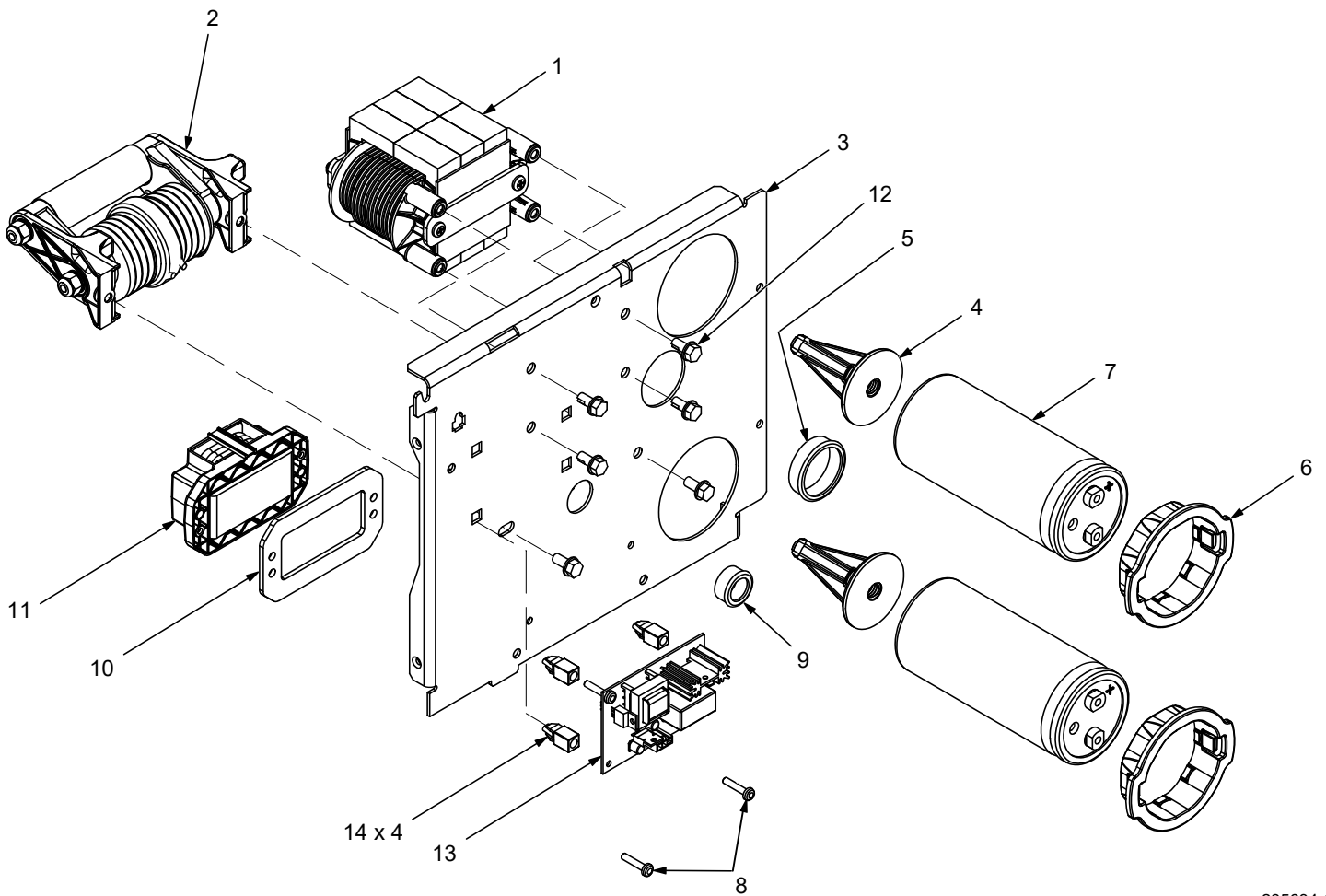
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		+ 285147	Panel, Rear (Order by Model and Serial Number)	1
2	GS1	238805	Valve, 24 VDC 2Way 125 PSI Custom Port 054 Orf w/Frict (Not in Maxstar STR)	1
3		215980	Bushing, Strain Relief .709/.984 Id x 1.375 Mtg Hole	1
3		255469	Bushing, Strain Relief .490/.785D x 1.326 Mtg Hole	1
4		278019	Gasket, Emi 10mm x 20mm x 25.4mm	1
5		137761	Nut, 750 Npt 1.31 Hex .27H Nyl Blk	1
6		182445	Nut, Conduit 1.000 Npt Pld 1.688 Od x .200 Thk	1
7		242834	Label, Gas In	1
8		219842	Label, Warning Input Connections/Electric Shock	1

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285634-C

Windtunnel, RH with Components

Windtunnel, RH with Components

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	L11	276208	Inductor, Input	1
2	T2	242782	XFMR, HF Coupling	1
3		+ 274959	Panel, Right Windtunnel	1
4		216861	Stand-Off, Capacitor	2
5		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	1
6		216860	Grommet, Capacitor	2
7	C4,C20	245614	Capacitor, Elctlt 1800 UF 500 VDC Can 2.52 Dia	2
8		207418	Screw, K40 x 12 Pan Hd-Phi Stl Pld Pt Thread Forming	2
9		218004	Label, Warning Electric Shock/Exploding Parts	1
10		010493	Bushing, Snap-In Nyl .625 Id x .875 Mtg Hole	1
11		218566	Gasket, Inductor Mounting E70 Ferrite Core	1
12	L12	213348	Coil, Inductor (Pre-Regulator)	1
13		233913	Screw, .250-14 x .50 Hexwhd T-25 T/C SC ZC	6
14	PC4	247046	Circuit Card Assy, Arc Starter	1

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Heatsink, Primary Assembly

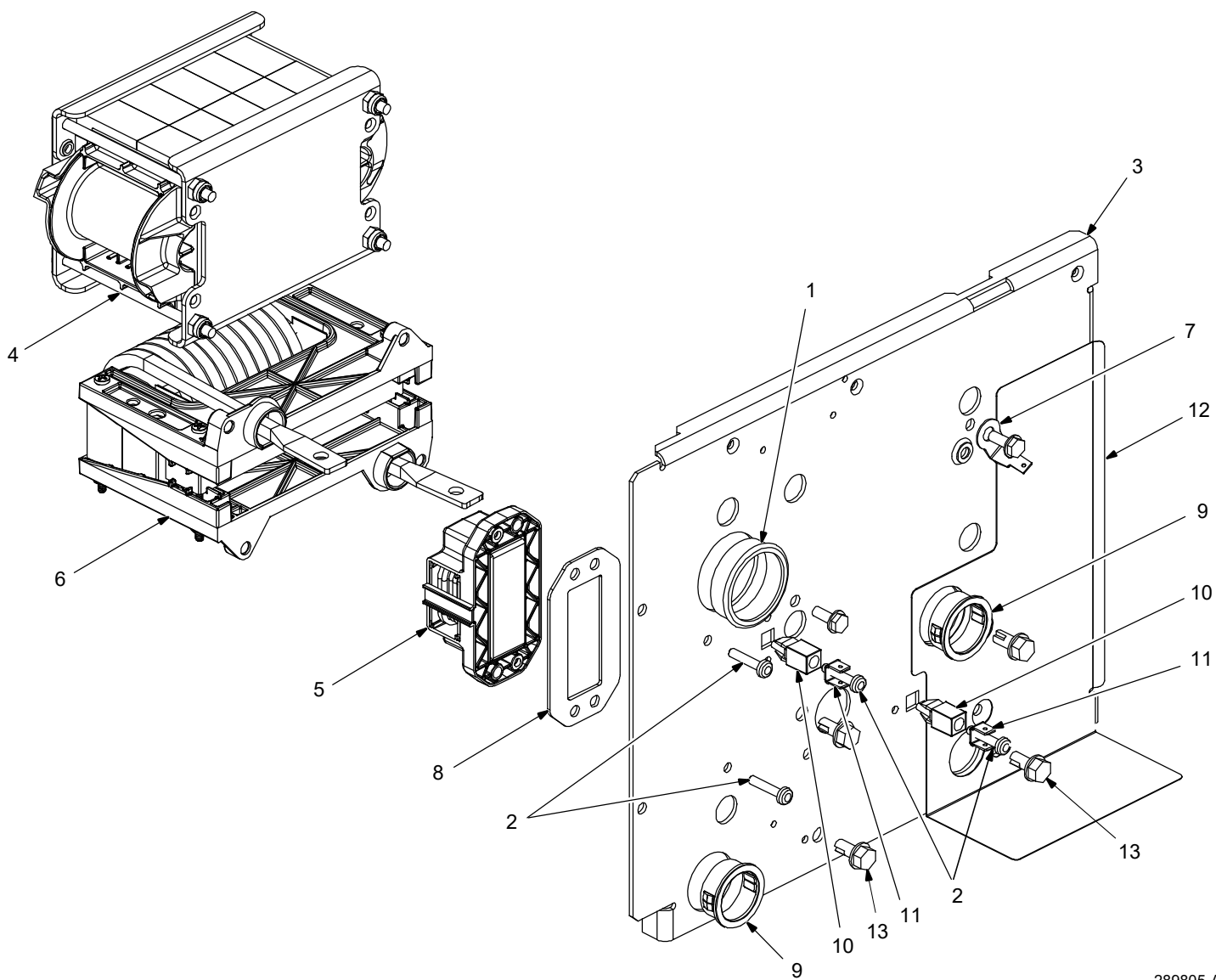
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		213346	Heatsink, Power Module	1
2	RM1	205751	Module, Power Resistor w/Plug	1
3		207451	Screw, 008-32 x .50 Pan Hd-Phl Stl Pld Sems	3
4	RT11	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
5	MOD1,2	261556	Kit, Input/Pre-Regulator And Inverter Module (Includes MOD1, MOD2)	1
6	PC1	287963	Kit, Circuit Card Assy, Power Interconnect	1
/	PLG101	131054	Housing Rcpt + Skts, (Service Kit)	1
/	PLG2	201665	Housing Plug + Skts (Service Kit)	1
/	PLG400	115093	Housing Plug+Pins (Service Kit)	1
/	PLG6	131056	Housing Plug+Pins (Service Kit)	1
/	PLG71	115094	Housing Plug + Skts, (Service Kit)	1
/	PLG8	279432	Housing Rcpt+Skts, (Service Kit)	1
7		229334	Screw, M5 - .8 x 35 Pan Hd-Phl Stl Pld Sems	4

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289805-A

Windtunnel, LH with Components

Windtunnel, LH with Components

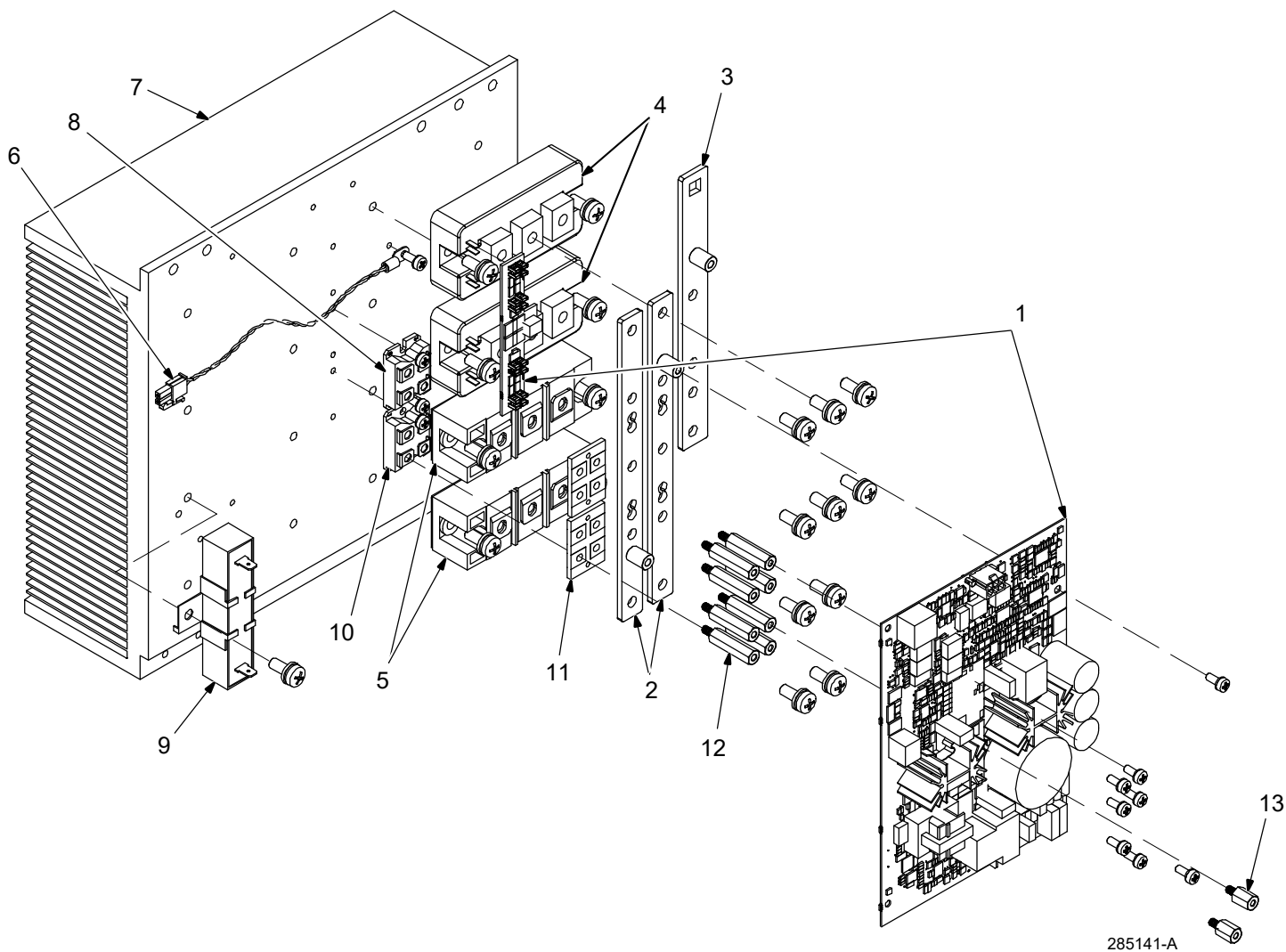
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	1
2		207418	Screw, K40 x 12 Pan Hd-Phi Stl Pld Pt Thread Forming	2
3		289804	Panel, Left Windtunnel	1
4	T1	274757	XFMR, Hf Litz/Litz w/Boost	1
5	L22	275390	Coil, Inductor (Boost)	1
6	L21	213356	Output Inductor Assy (Prior to NC140140L)	1
6	L21	288918	Inductor, Output (Eff w/NC140140L and following)	1
7		010493	Bushing, Snap-In Nyl .625 Id x .875 Mtg Hole	2
8		231208	Connector, Faston 1/4 Ring w/75 Deg Bend	1
9		227746	Gasket, Inductor Mounting	1
10		057357	Bushing, Snap-In Nyl .937 Id x 1.125 Mtg Hole	2
11		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	2
12		600760	Term, Frict .250 x .032 Uninsul Male .130 Stud Mtg 1pr	2
13		287694	Insulator, Electrode	1
14		233913	Screw, .250-14 x .50 Hexwhd T-25 T/C SC ZC (Eff w/NC140140L and following)	2

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285141-A

Heatsink, Secondary

Heatsink, Secondary

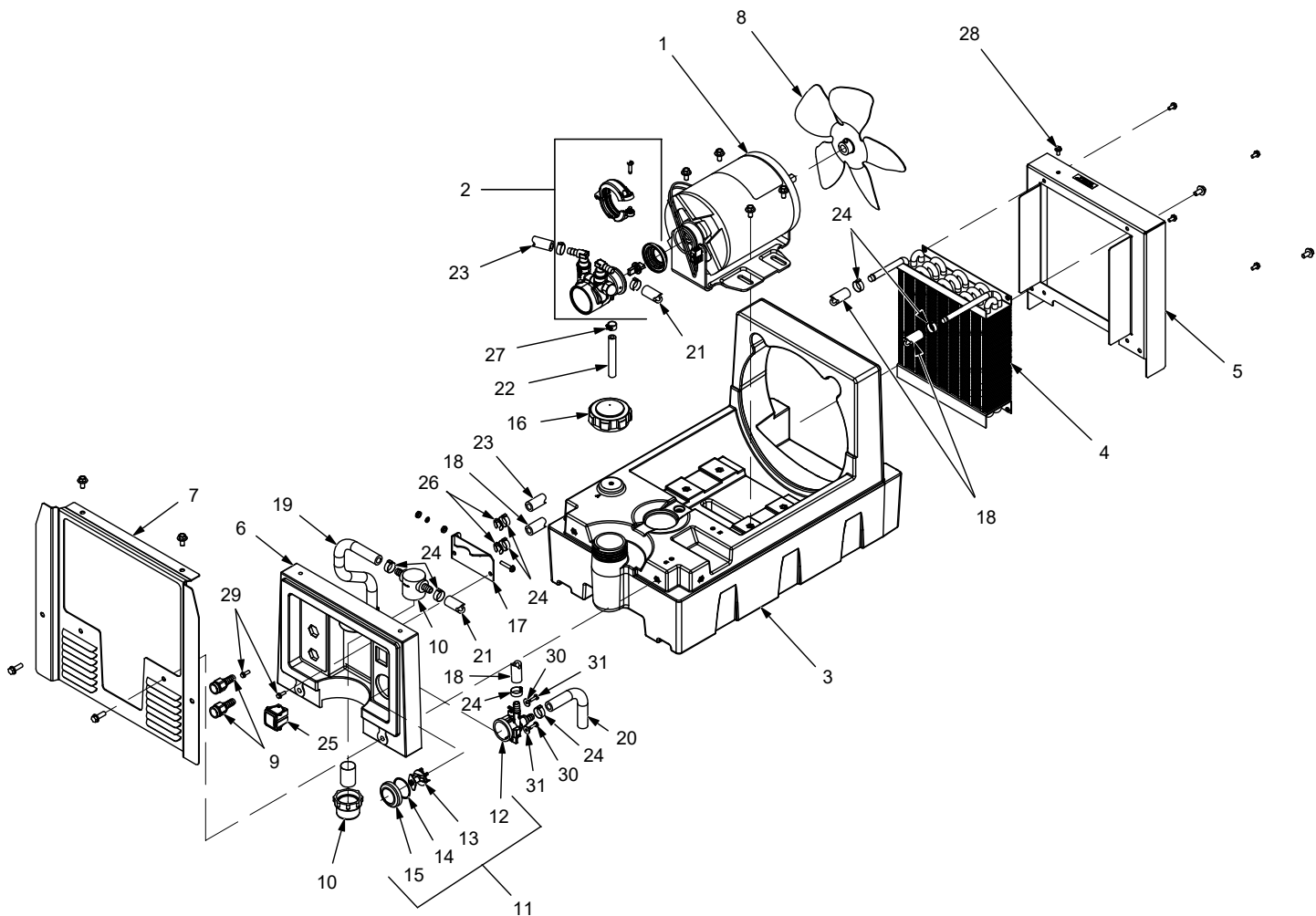
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	PC5	281145	Circuit Card Assy, Secondary	1
/	RC331	131054	Housing Rcpt + Skts, (Service Kit)	1
2		284152	Bus Bar, Cop .625 x 7.750 x .125 Thk	2
3		284153	Bus Bar, Cop .750 x 7.000 x .125 Thk	1
4	PM21, PM22	283390	Kit, IGBT	2
5	D21,D22	287896	Kit, Ultra Fast Diode	2
6	RT21	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
7		274755	Heatsink, Power Module	1
8	D23	201530	Kit, Diode Fast Recovery Bridge	1
9	R21	275003	Resistor, WW Fxd 50 W 10 Ohm 5% w/Ter	1
10	PM25	259420	Kit, IGBT	1
11		280831	Spacer, PWB	2
12		274924	Stand-Off, M4 x 0.7 x 30mm Lg 8mm Hex AL M&F	8
13		276732	Stand-Off, M4 x 0.7 x 12mm Lg 8mm AL M&F	1
/	R23	291184	Resistor, Ww 10 W 25K Ohm With Leads+Term (Eff w/NC330129L) (Not Shown)	1

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

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284536-E

Cooler Assembly

Cooler Assembly

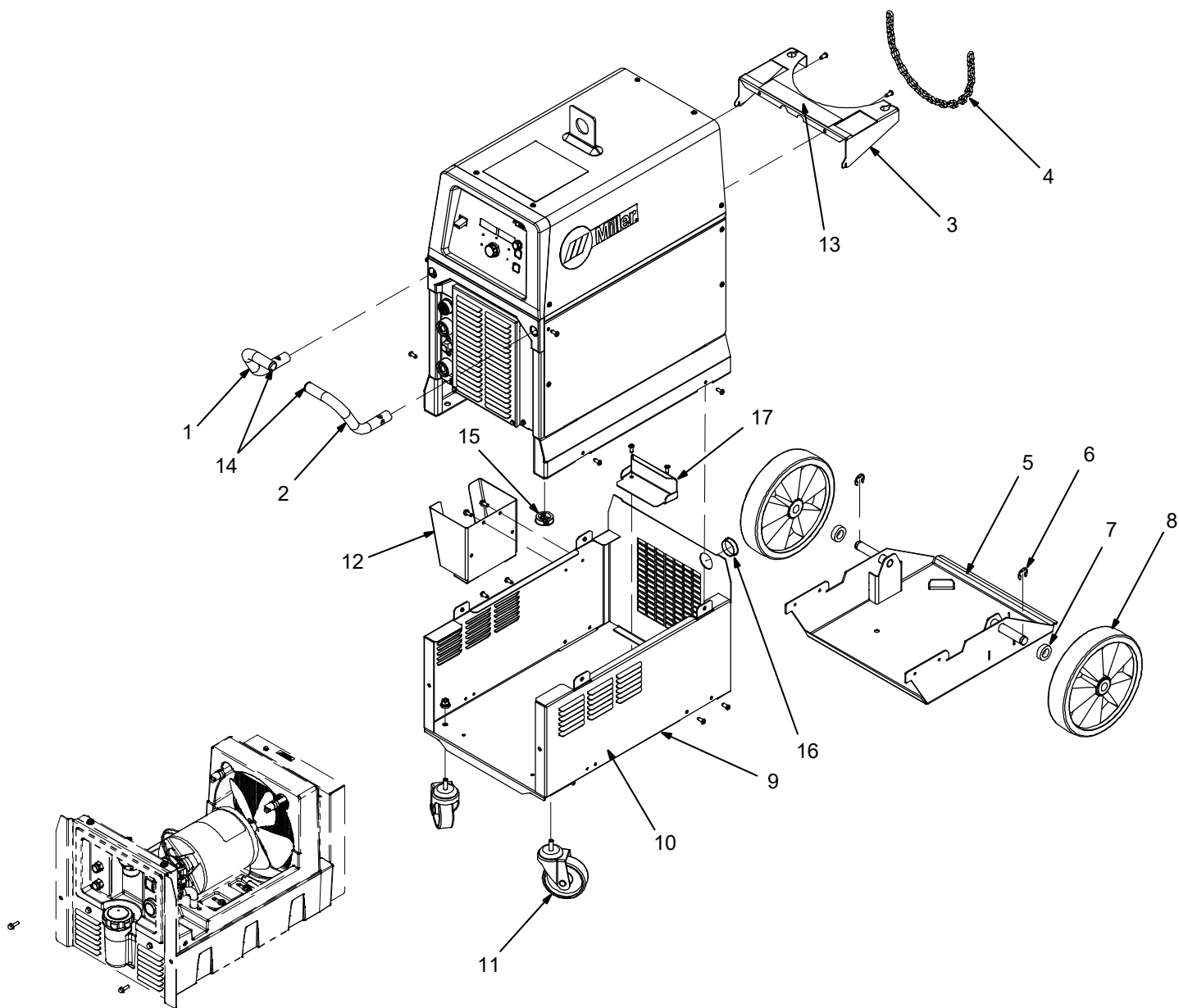
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285062	Motor, 1/4 Hp 230 Vac 50/60 Hz 1425/1725 Rpm Dual	1
2		290632	↓ Kit, Pump Coolant (Includes)	1
/		285200	→ Pump, Coolant w/Fittings	1
/		284058	→ Coupler, Drive	1
/		284057	→ Ring, Insulator	1
/		284051	→ Clamp, Pump	1
/		235065	→ Screw, 010-32 x .75 Pan Hd-Torx Stl Zc Pld	1
/		010323	→ Clamp, Hose .250-.625 Clp Dia	2
3		269910	Tank, Coolant	1
4		196515	Radiator, Heat Exchanger	1
5		284538	Plenum	1
6		289311	Panel, Front	1
7		284537	Panel, Front Louver	1
8		290198	Blade, Fan 9.000 5WG38Deg .500 Bore Cw Al	1
9		276274	Ftg, Water Quick Conn .375 Female Pnl Mount	2
10		166564	↓ Filter, In-line Low Profile 100 Screen 3/8 Hose Bar (Includes)	1
* /		239494	→ Screen, Filter	1
11		258437	↓ Kit, Indicator Flow (Includes)	1
/		010323	→ Clamp, Hose .250-.625 Clp Dia	2
/		226935	→ Housing, Flow Indicator	1
/		233606	→ Paddle, Flow Indicator	1
/		166566	→ O-Ring, 1.301 Id x .070 Cs	1
/		186005	→ Lens, Flow Indicator	1
12		166608	Cap, Tank Screw-on w/Vent	1
13		168254	Clip, Filtering Mounting	1
18		231400	Hose, Rubber Braided .375 Id x .650 Od x 17.250	1
19		255481	Hose, Pick-up Coolant w/Clamp	1
20		255483	Hose, Coolant Return w/Clamp	1
21		236084	Hose, Rubber Braided .375 Id x .650 Od x 10.500	1
22		196991	Hose, Nprn Brd No 1 x .250 Id x 3.00	1
23		255485	Hose, Rubber Braided .375 Id x .650 Od x 3.750	1
24		010323	Clamp, Hose .250-.625 Clp Dia	6
25		285201	Blank, Switch	1
26			Not used on this model	0
27		084173	Clamp, Hose .460-.545 Clp Dia Slftng	1
28		082193	Screw, 010-32 x .37 Hexwhd-Slt Stl Pld Slffmg Tap-Rw	5
29		129351	Screw, 008-32 x .50 Hexwhd .34D w/Spl Gndrng Stl Pld	2
30		602237	Washer, Flat .172 Id x 0.500 Od x .048T Stl Pld Blk	2
31		145217	Screw, K40 x 12 Pan Hd-Phl Stl Pld Pt Thread Forming	2

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

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Cooler Running Gear Assembly

Cooler Running Gear Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285051	Handle, Left	1
2		284149	Handle, Right	1
3		+ 284535	Bracket, Bottle	1
4		210224	Chain, Straight Link 1/0 x 27.000 Zinc Pld	1
5		284533	Tray Assy, Bottle	1
6		121614	Ring, Rtng Ext .750 Shaft x .085 Thk E Style Pld	2
7		235506	Spacer	2
8		209869	Wheel, Poly-olefin 10 In Dia x 2.000 wide x .750	2
9		+ 284529	Base, Runner Assy	1
10		279881	Label, Warning General Precautionary Static (Eng/Fr/Sp)	2
11		008999	Caster, Swvl 4.00 In Polyolefin	2
12		223300	Holder, Foot Pedal	1
13		284182	Label, Warning Cylinder May Explode If Damaged	1
14		285052	Cap, Tube .875 Dia x .500 Lg	2
15		245520	Bushing, Snap-In Nyl 1.062 Id X 1.500 Mtg Hole Cent	1
16		006086	Blank, Snap-In Nyl 1.500 Mtg Hole Black	1
17		286577	Bracket, Mtg Cooler	1

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