



PM- 284794 D

Syncrowave 300

Non-CE Effective with Serial Number MK470284 And Following

CE Effective with Serial Number NBo4o352L And Following



PARTS MANUAL



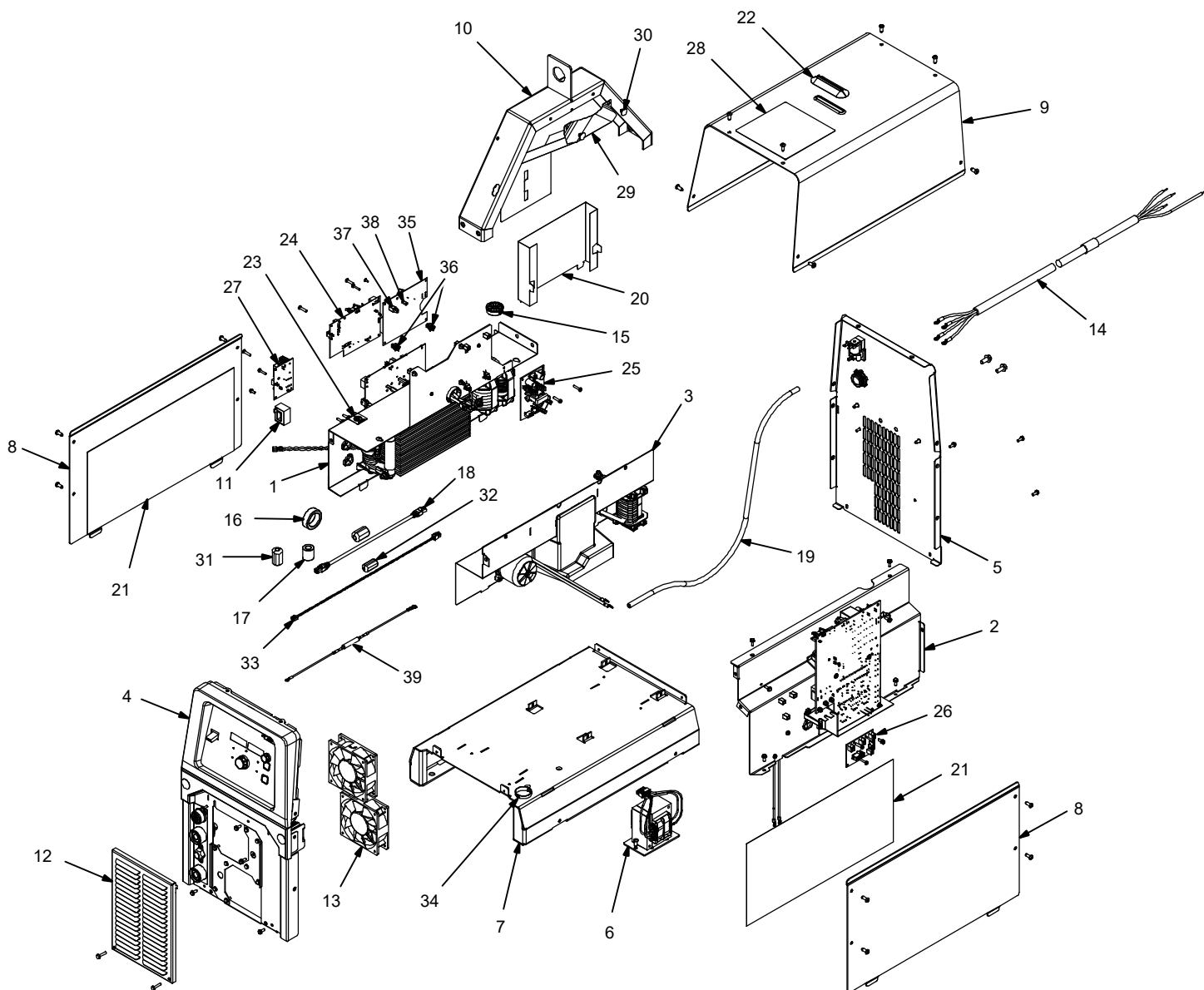
PM- 284794 D

Syncrowave 300

Effective with Serial Number
MK470284L - ZZ222222



PARTS MANUAL



805623-D

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1			Windtunnel, Lh Upper w/Cmpnts	1
2			Windtunnel, Rh w/Cmpnts	1
3			Windtunnel, Lh Lower w/Cmpnts	1
4			Panel, Front w/Cmpnts	1
5			Panel, Rear w/Cmpnts	1
6	T3	284498	XFMR, Auto-XFMR Auto 480V/240V 650VA	1
7		284147	Base	1
8		284150	Panel, Side	2
9		+ 213056	Wrapper, Top	1
10		284161	Lift Eye, Assy	1
11	HD1	284620	Transducer, Current 200A Module Supply V +/- 15V	1
12		284148	Box, Louver	1
13	FM	284795	Fan, Muffin 24 VDC 5200 Rpm 4.125 Mtg Holes	2
14		284917	Cable, Power 12Ft 6 In 10Ga 4C	1
15		245520	Bushing, Snap-In Nyl 1.062 Id X 1.500 Mtg Hole Cent	1
16	L42	131447	Core, Toroidal 1.332 Id x 1.932 Od x .625 Thk	1
17	L43		Not used on this model	0
18		275127	Cable, Ethernet Cat5E Utp Rj45 12.000 In Lg	1
19		284789	Hose, Polyurethane Black .208 Id x .406 Od x 32 In.	1
20		284458	Baffle, Secondary	1
21		224516	Insulator, Side	1
22		213073	Seal, Lift Eye	1
23		155436	Label, Ground/Protective Earth	1
24	PC2	286233	↓ Kit, PC Board Process Control	1
/	PLG1,PLG2PLG82	115094	→ Housing Plug + Skts, (Service Kit)	3
/	PLG27,PLG80	115093	→ Housing Plug+Pins (Service Kit)	2
/		115092	→ Housing Plug+Pins (Service Kit)	1
/	PLG214	131058	→ Housing Plug + Skts	1
25	PC7	266586	↓ Circuit Card Assy, Flyback 60w 940V In	1
/	RC30,RC200	201665	→ Housing Plug + Skts (Service Kit)	2
/	PLG72	115092	→ Housing Plug+Pins (Service Kit)	1
/	PLG30	131058	→ Housing Plug + Skts	1
26	PC8	282814	Circuit Card Assy, Link Cooler Mtr	1
27	PC4	247046	↓ Circuit Card Assy, Arc Starter	1
/	PLG42	131204	→ Housing Plug + Skts, (Service Kit)	1
28		280528	Label, Warning General Precautionary Static (En/Fr/Sp)	1
29		286276	Baffle, Diverter	1
30		255051	Clip, Rachet	1
31		265451	Core, Ferrite Round Cable .400 Id Clamp-On Emi Supp	1
32		249747	Core, Ferrite Round Cable .201 Id Clamp-On Emi Supp	1
33		275299	Cable Assy, Hall Effect w/Plugs 19.000 In	1
34		006086	Blank, Snap-In Nyl 1.500 Mtg Hole Black	1
35			Not used on this model	0

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

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Main Assembly

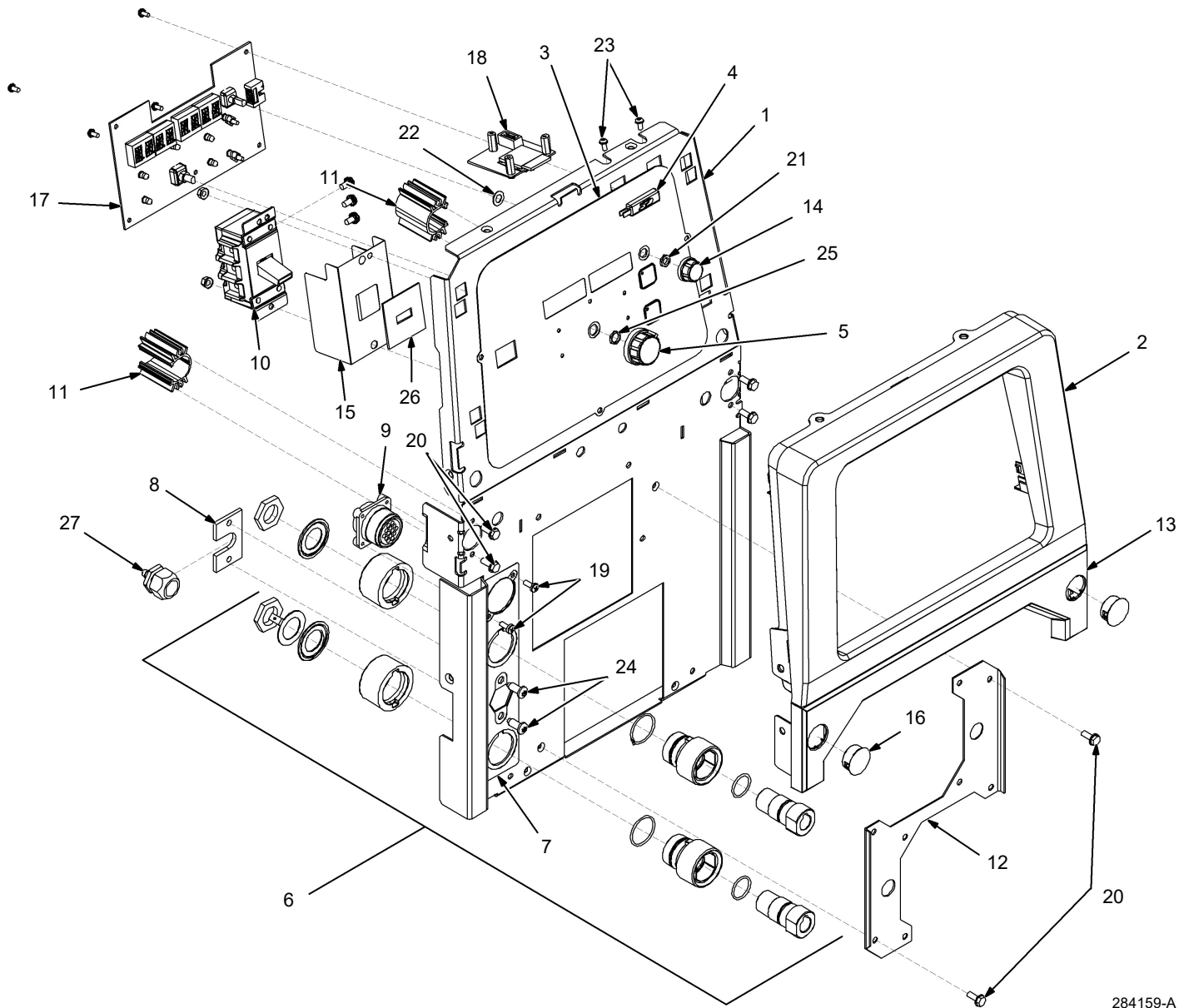
Item No.	Dia. Mkgs.	Part No.	Description	Qty
36			Not used on this model	0
37		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	1
38			Not used on this model	0
39			Not used on this model	0

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Panel, Front with Components

Panel, Front with Components

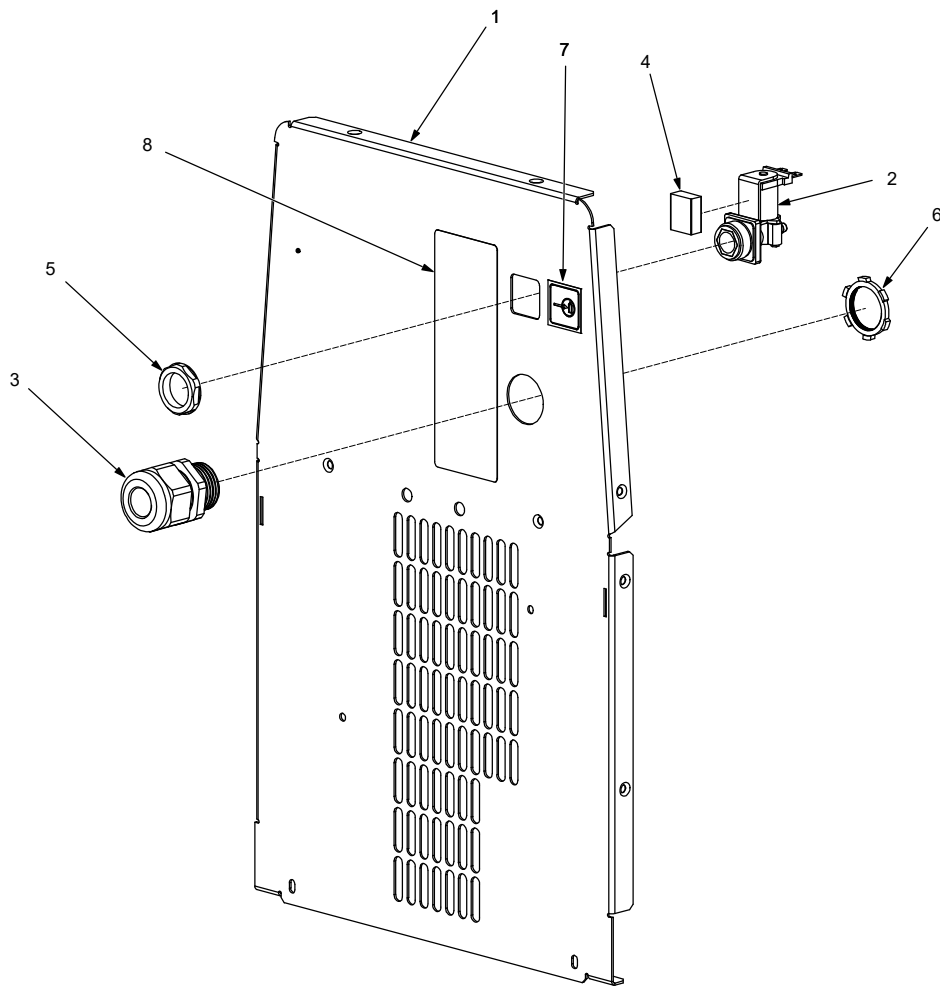
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284160	Panel, Front	1
2		213051	Panel, Front Top	1
3		280539	Nameplate, Miller	1
4		254052	Cover, SD Card	1
5		228546	Knob, Pointer 1.125 Dia x 6mm Id w/Spring Clip - 45mm Flat	1
6		279661	↓ Rcpt Assy, Tw Lk Insul Fem (Dinse Type)	2
/		250043	→ Receptacle, Twist Lock Dinse .890 Od	1
/		274934	→ Insulator, Bulkhead Front	1
/		274935	→ Insulator, Bulkhead Rear	1
/		185718	→ O-Ring, 0.989 Id x 0.070H	1
/		186228	→ O-Ring, 0.739 Id x 0.070 H	1
/		178548	→ Terminal, Connector Friction	1
/		185717	→ Nut, M20-15 100Hex 19H Brs Locking	1
/		229338	→ Washer, Domed Load .812 Id x 1.450 Od x .070 Thk	1
/		229333	→ Screw, M10 - 15 x 20 Hex Hd-Pln 8.8 Pld Sems	1
7		284504	Plate, Indicator Front	1
8		230155	Bracket, Valve Mtg	1
9	RC14	284732	↓ Lead Assy, Process Control to 14 Pin (Includes)	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		284151	Bracket, Mounting Fan	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	2
17	PC3	286234	Kit, Circuit Card Assy, User Interface	1
18	PC9	274828	Circuit Card Assy, Sd Card Interface w/Program	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	12
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		231279	Fitting, Gas-clip Mount	1

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284164-C

Panel, Rear with Components

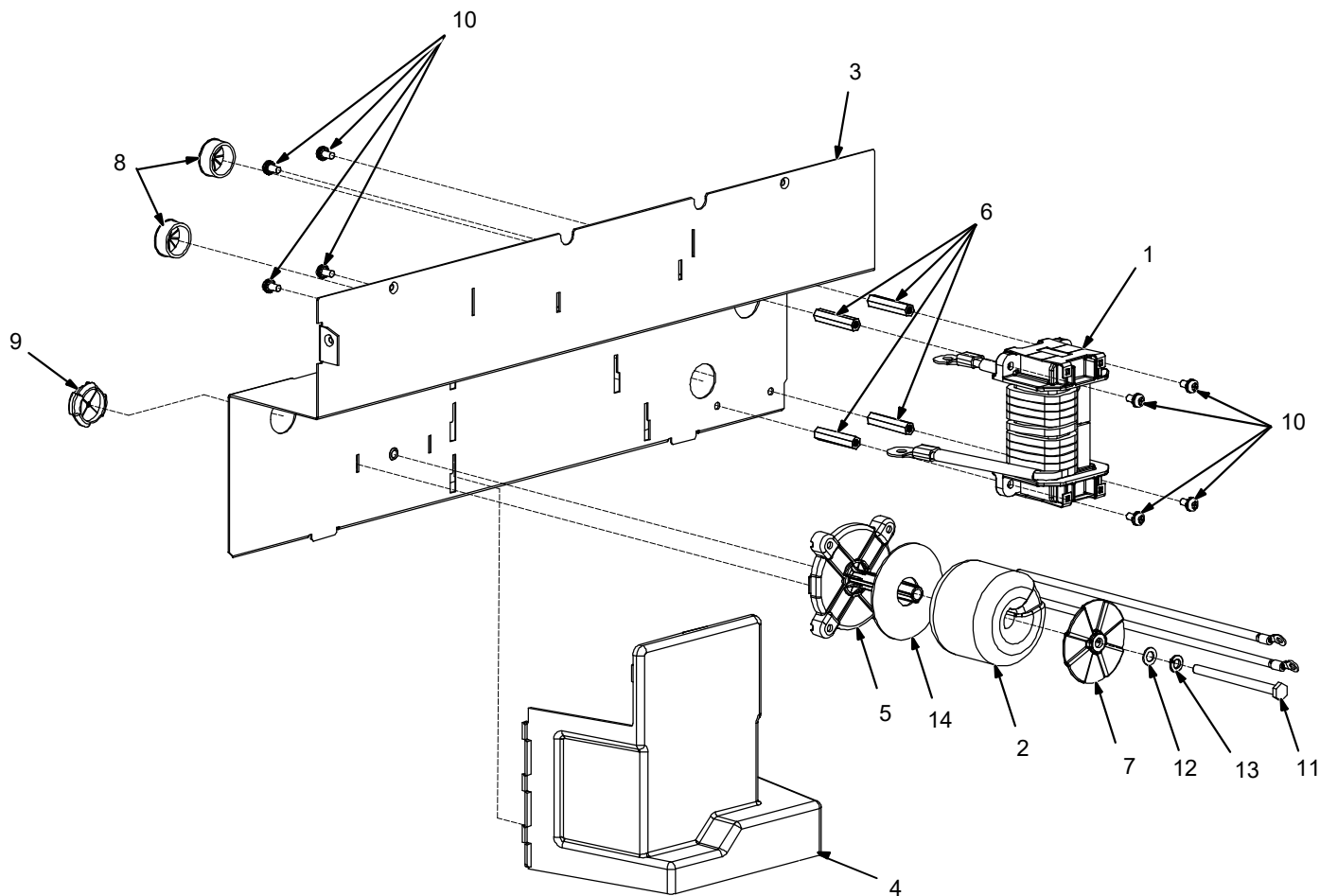
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		+ 284165	Panel, Rear (Order by Model and Serial Number)	1
2	GS1	238805	Valve, 24 VDC 2Way 125 PSI Custom Port 054 Orf w/Frict (Not in Maxstar STR)	1
3		255469	Bushing, Strain Relief .490/.785D x 1.326 Mtg Hole	1
4		278019	Gasket, Emi 10mm x 20mm x 25.4mm	1
5		137761	Nut, 750 Npt 1.31 Hex .27H Nyl Blk	1
6		273571	Nut, Conduit 1.000 Npt Pld 1.71 Od x .14 Thk	1
7		242834	Label, Gas In	1
8		294298	Label, Warning Input Connections/Shock	1

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284170-A

Wind Tunnel, LH Lower with Components

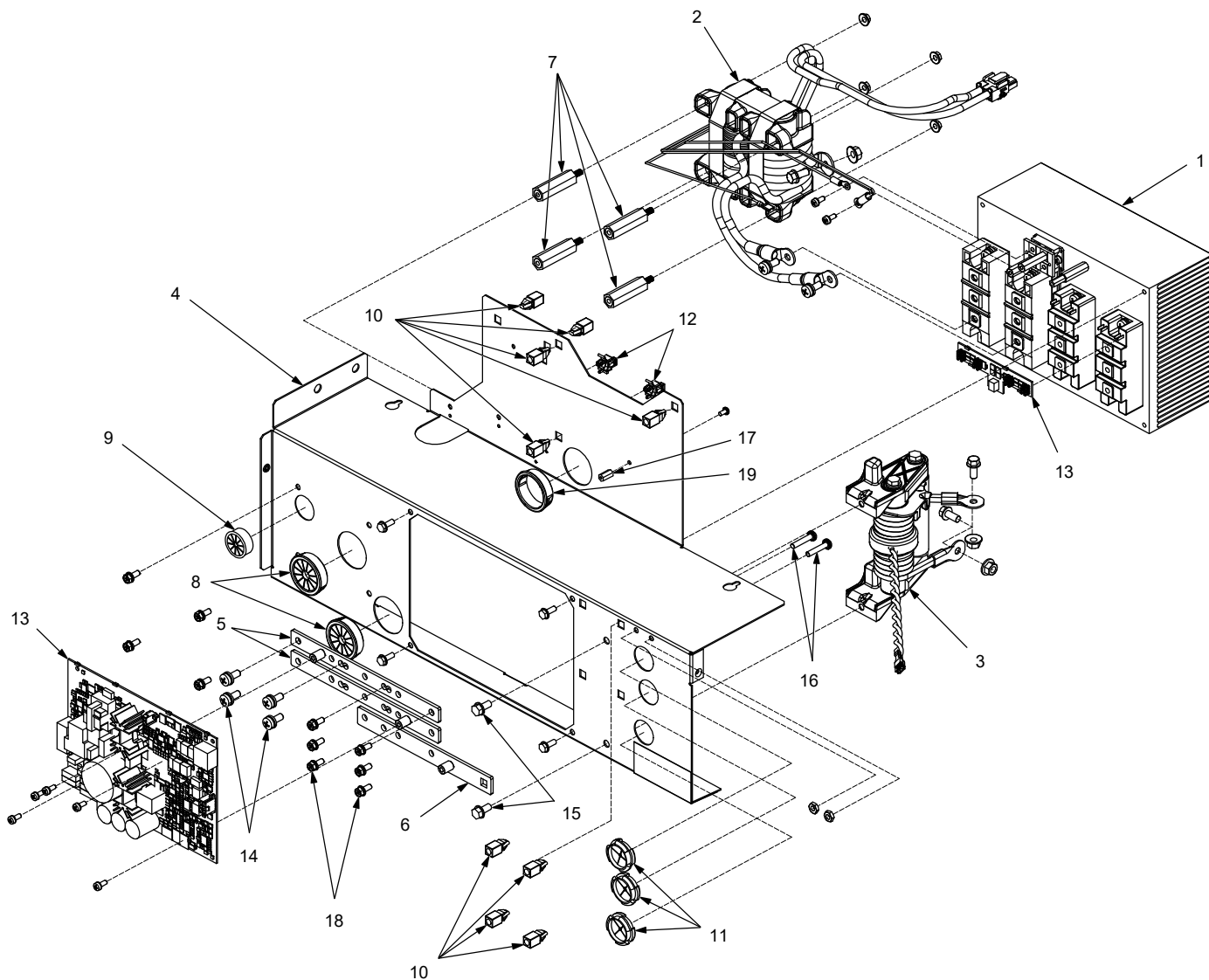
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	Z1	284467	Inductor, Output	1
2	L1	284225	Inductor, Input Toroidal Xflux	1
3		284171	Windtunnel, Lh Lower	1
4		284056	Baffle, Primary	1
5		284508	Base, Mounting Inductor Toroid	1
6		284506	Stand-Off, No 10-32 x 1.500 Lg .312 Hex Al Fem	4
7		284509	Cap, Mounting Inductor Toroid	1
8		153403	Bushing, Snap-In Nyl .750 Id x 1.000 Mtg Hole Cent	2
9		278885	Grommet, Rubber	1
10		212939	Screw, 010-32 x .37 Pan Hd-Plt Stl Pld Sems Ext T	8
11		044710	Screw, .250-20 x .325 Hex Hd-Pln Stl Pld	1
12		254153	Washer, Flat .281 Id x 0.500 Od x .031T Stl Pld	1
13		602207	Washer, Lock .255 Id x 0.489 Od x .062T Stl Pld Split .250	1
14		286557	Gasket, Inductor Mounting Toroid	1

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284168-D

Wind Tunnel, LH Upper with Components

Wind Tunnel, LH Upper with Components

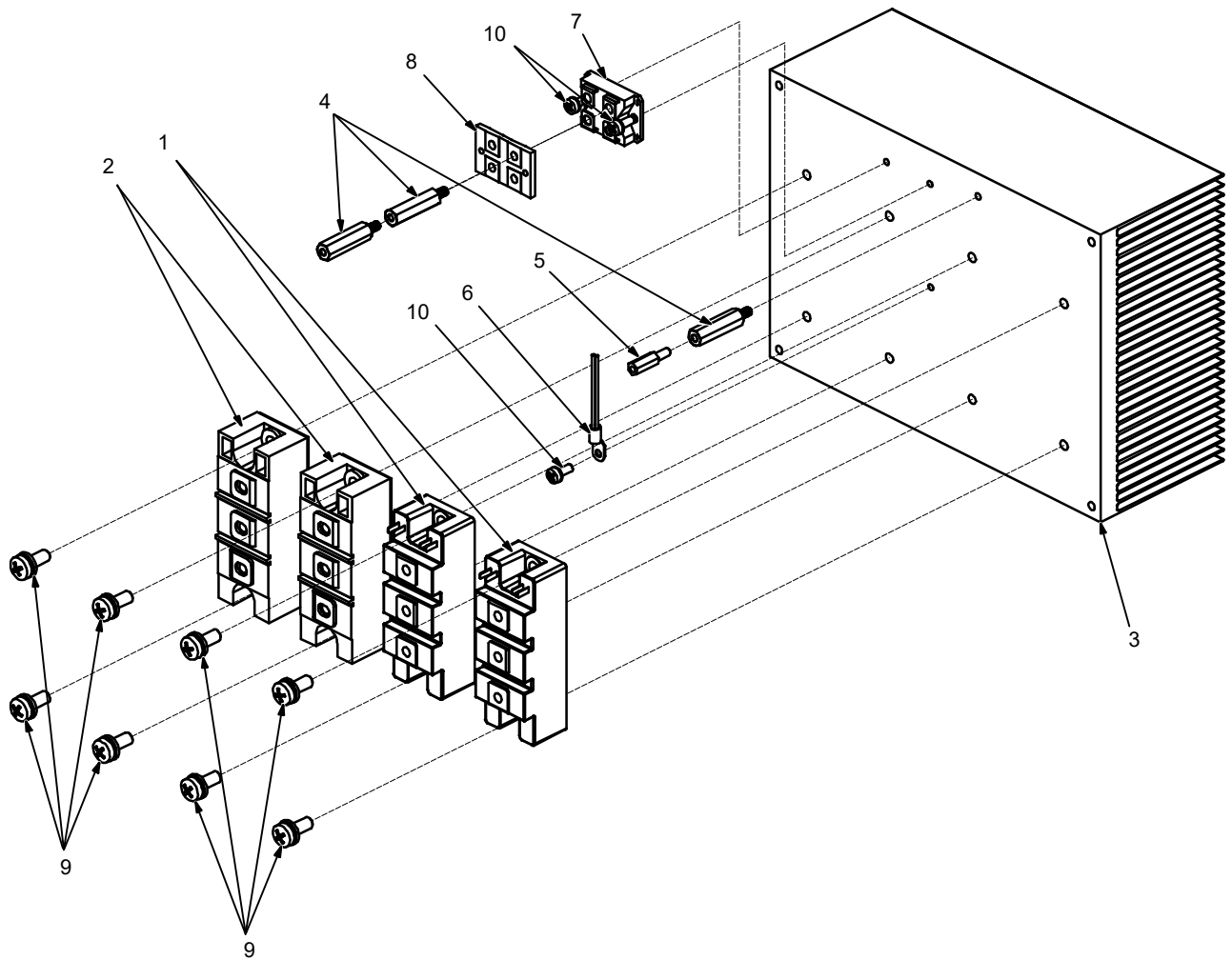
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284505	Heat Sink, Secondary Assembly	1
2	T1	284459	XFMR, Hf Litz/Litz w/Boost	1
3	T2	284463	XFMR, Hf Coupling	1
4		284169	Windtunnel, Lh Upper	1
5		284152	Bus Bar, Cop .625 x 7.750 x .125 Thk	2
6		284153	Bus Bar, Cop .750 x 7.000 x .125 Thk	1
7		284506	Stand-Off, No 10-32 x 1.500 Lg .312 Hex Al Fem	4
8		245520	Bushing, Snap-In Nyl 1.062 Id X 1.500 Mtg Hole Cent	2
9		153403	Bushing, Snap-In Nyl .750 Id x 1.000 Mtg Hole Cent	1
10		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	9
11		278885	Grommet, Rubber	3
12		263308	Clip, Mtg Pc Board	2
13	PC5	283668	Circuit Card Assy, Secondary Commutator Basic	1
14		229331	Screw, M6 - 10 x 16 Pan Hd-phl Stl Pld Sems	4
15		233913	Screw, .250-14 x .50 Hexwhd T-25 T/C SC ZC	2
16		132729	Screw, 010-24 x .100 Pan Hd-Phl Stl Pld Sems Ext T	2
17		212458	Stand-Off, No 6-32 x .500 Lg .250 Hex Al Fem	1
18		229327	Screw, M5 - .8 x 12 Hex Hd-Phl 8.8 Pld Sems Clr	6
19		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	6

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284505-A

Heat Sink, Secondary Assembly

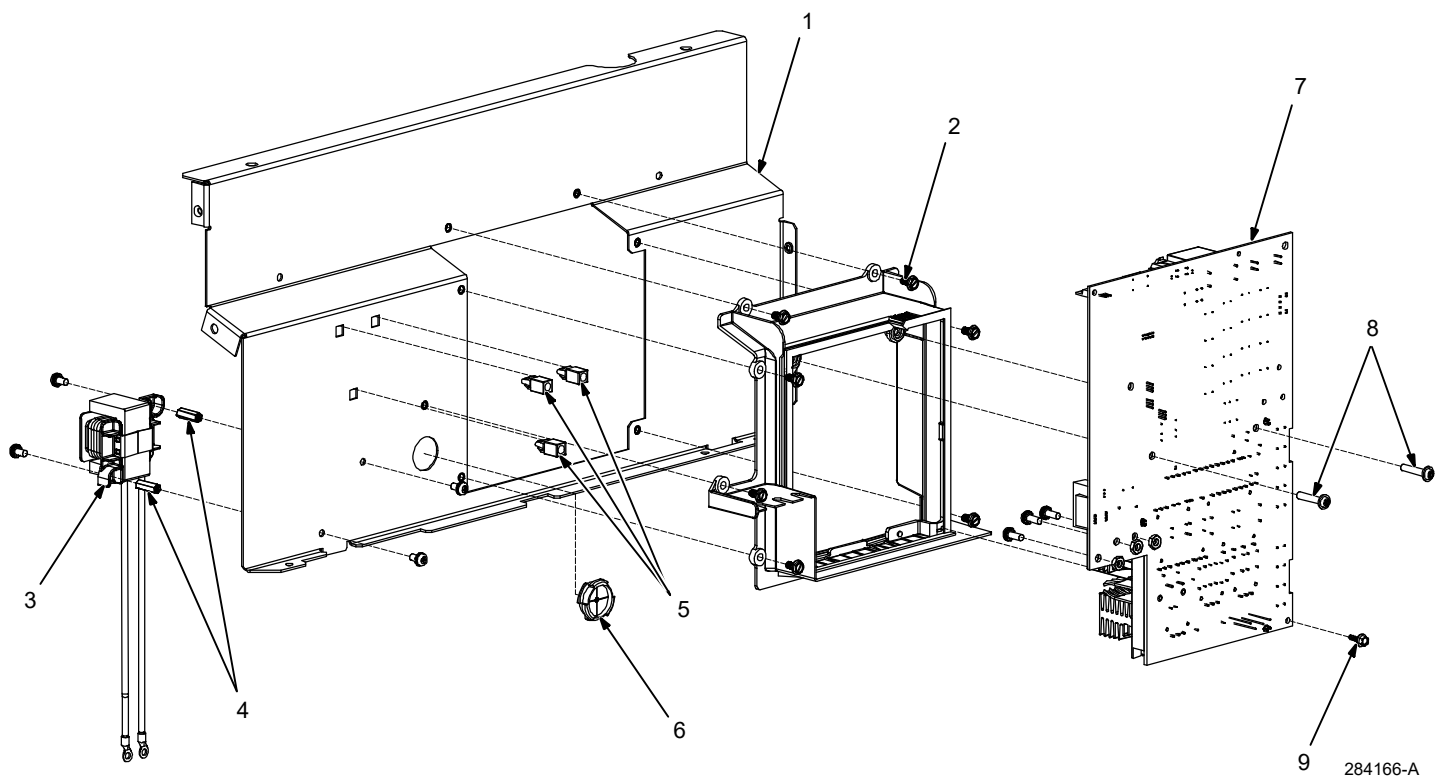
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	PM21,PM22	287149	Transistor, IGBT Module 295A 600V Dual Pcm Smkrn	2
2	D21-D22	287147	Kit, Diode	2
3		278638	Heat Sink, Secondary	1
4		274924	Stand-Off, M4 x 0.7 x 30mm	3
5		284510	Stand-Off, M4 x 0.7 x 15mm Lg 6mm Hex Nyl M&F	1
6	RT1	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
7	D23	201530	Kit, Diode Fast Recovery Bridge	1
8		250831	Spacer, PWB	1
9		229331	Screw, M6 - 10 x 16 Pan Hd-phl Stl Pld Sems	8
10		214496	Screw, M4 - 7 x 10 Pan Hd-Phl Stl Pld Lkg Wshr Sems	3

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Wind Tunnel, RH with Components

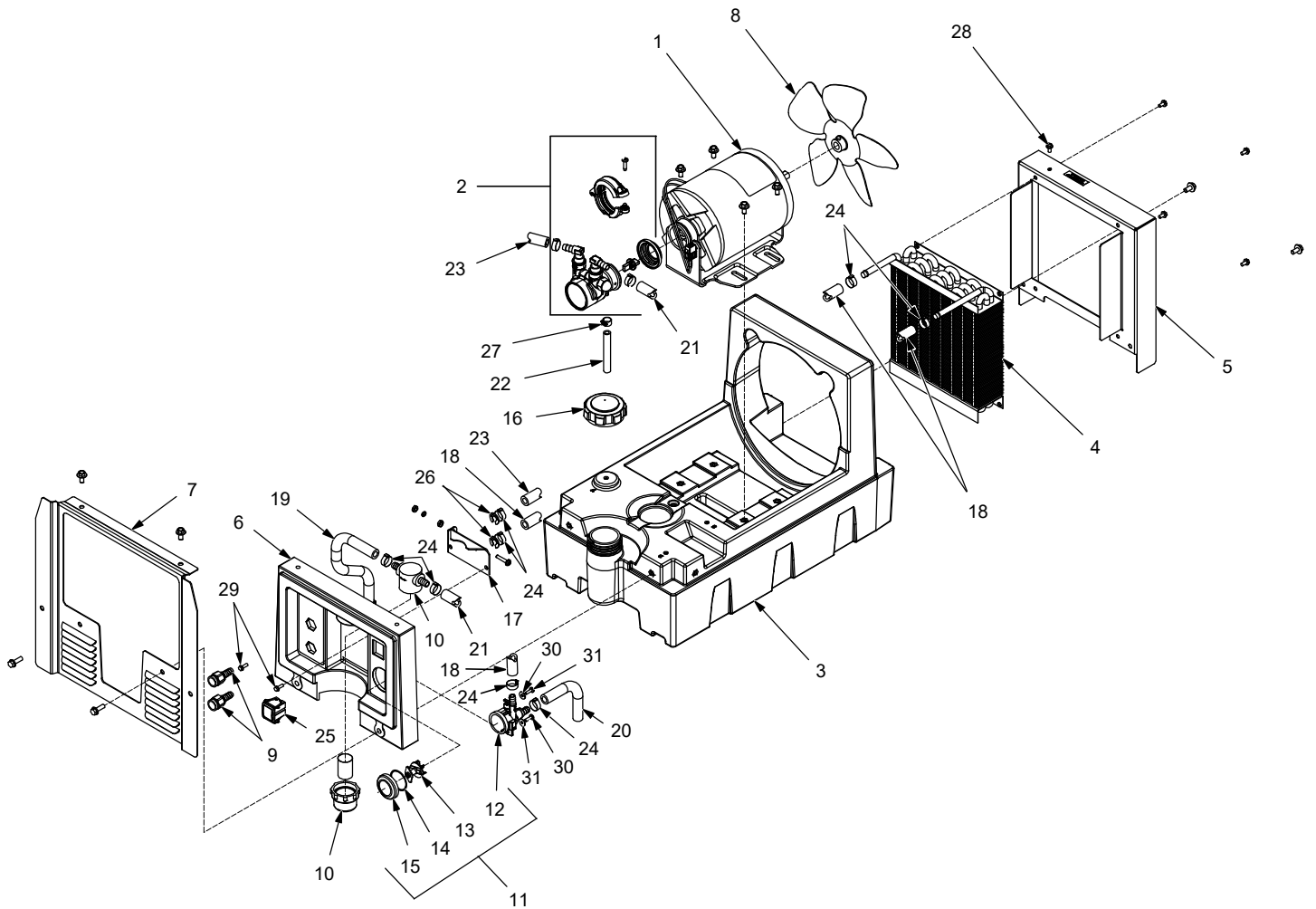
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284167	Windtunnel, RH	1
2		284055	Adaptor, Pri Pcb Mount	1
3	L3	284465	Inductor, Di-Dt	1
4		284507	Stand-Off, No 10-32 x .750 Lg .250 Hex Nyl Fem	2
5		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	3
6		278885	Grommet, Rubber	1
7	PC1	286235	↓ Kit, PCB Board Primary	1
/	PLG308	201665	→ Housing Plug + Skts (Service Kit)	2
8		208536	Screw, K50 x 25 Rnd Washer, Hd-trx	2
9		265406	Screw, K35 x 12 Hexwhd Stl Pld Pt Thread Forming Blk	1

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284536-E

Cooler Assembly

Cooler Assembly

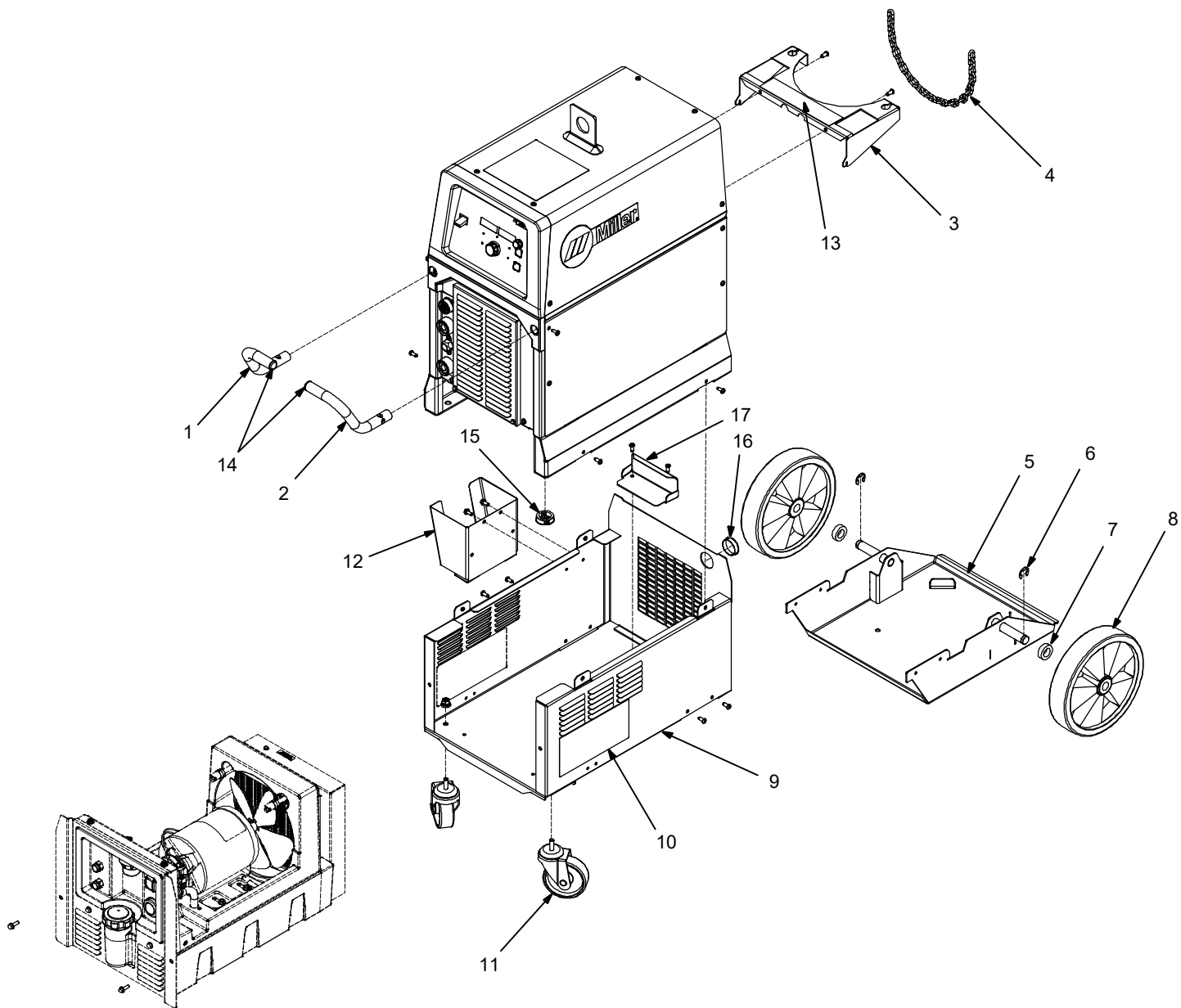
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285062	Motor, 1/4 Hp 230 Vac 50/60 Hz 1425/1725 Rpm Dual	1
2		290632	↓ Kit, Pump Coolant (Includes)	1
/		285200	→ Pump, Coolant w/Fittings	1
/		284058	→ Coupler, Drive	1
/		284057	→ Ring, Insulator	1
/		284051	→ Clamp, Pump	1
/		235065	→ Screw, 010-32 x .75 Pan Hd-Torx Stl Zc Pld	1
/		010323	→ Clamp, Hose .250-.625 Clip 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 Clip 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 Clip Dia	6
25		285201	Blank, Switch	1
26			Not used on this model	0
27		084173	Clamp, Hose .460-.545 Clip 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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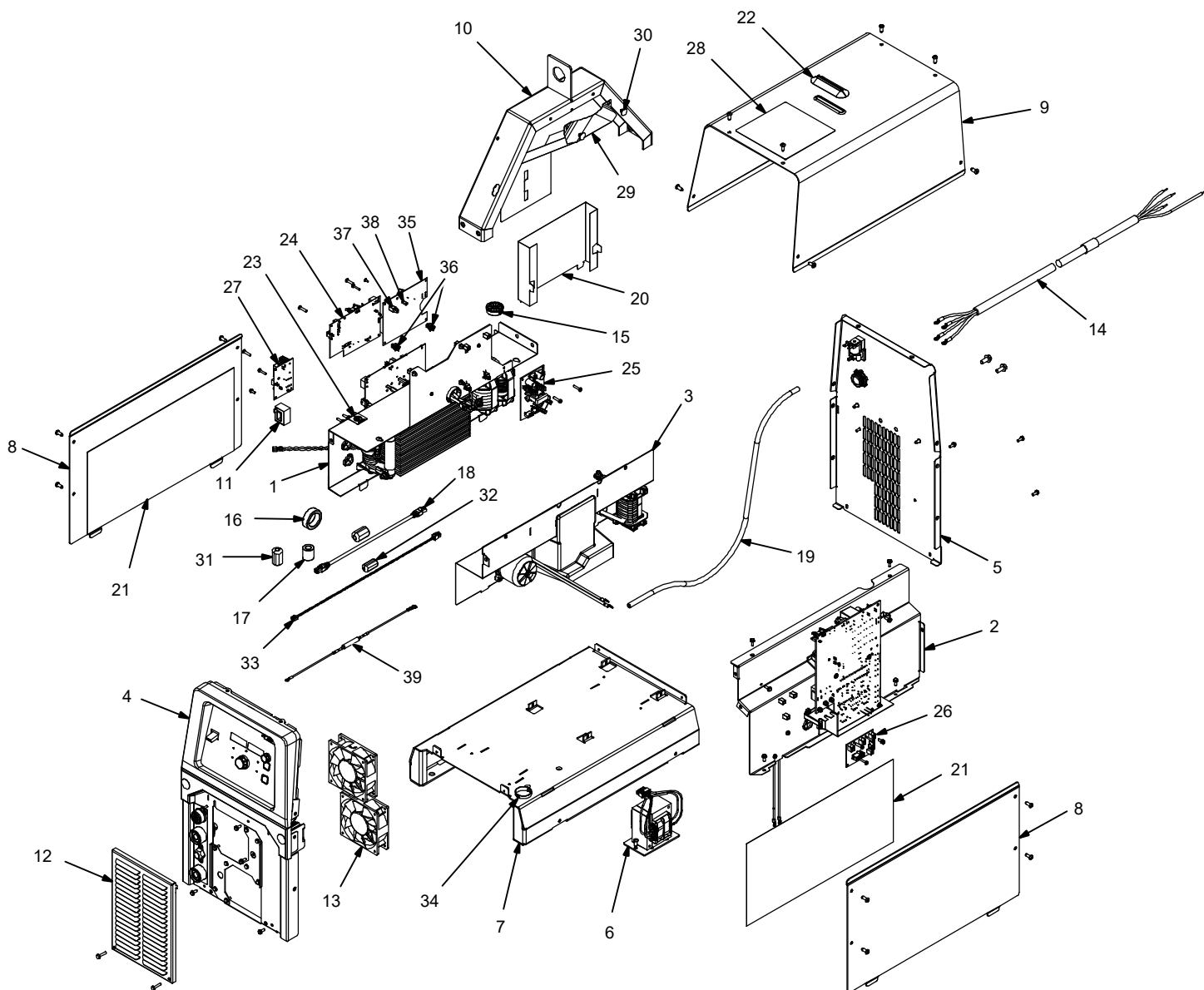
PM- 284794 D

Syncrowave 300 CE

Effective with Serial Number
NB040352L - ZZ222222



PARTS MANUAL



805623-D

Main Assembly

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty	
1			Windtunnel, Lh Upper w/Cmpnts	1	
2			Windtunnel, Rh w/Cmpnts	1	
3			Windtunnel, Lh Lower w/Cmpnts	1	
4			Panel, Front w/Cmpnts	1	
5			Panel, Rear w/Cmpnts	1	
6	T3	288572	XFMR, Auto-XFMR Auto 400V/240V 650VA	1	
7		284147	Base	1	
8		284150	Panel, Side	2	
9		+ 213056	Wrapper, Top	1	
10		284161	Lift Eye, Assy	1	
11	HD1	284620	Transducer, Current 200A Module Supply V +/- 15V	1	
12		284148	Box, Louver	1	
13	FM	284795	Fan, Muffin 24 VDC 5200 Rpm 4.125 Mtg Holes	2	
14		284917	Cable, Power 12Ft 6 In 10Ga 4C	1	
15		245520	Bushing, Snap-In Nyl 1.062 Id X 1.500 Mtg Hole Cent	1	
16	L42		Not used on this model	0	
17	L43		Not used on this model	0	
18		275127	Cable, Ethernet Cat5E Utp Rj45 12.000 In Lg	1	
19		284789	Hose, Polyurethane Black .208 Id x .406 Od x 32 In.	1	
20		284458	Baffle, Secondary	1	
21		224516	Insulator, Side	1	
22		213073	Seal, Lift Eye	1	
23		155436	Label, Ground/Protective Earth	1	
24	PC2	286233	↓ Kit, PC Board Process Control	NB040352L - NC320653L	1
24	PC2	293055	↓ Kit, PC Board Process Control	NC320654L - ZZ222222L	1
/	PLG1,PLG2PLG82	115094	→ Housing Plug + Skts, (Service Kit)		3
/	PLG27,PLG80	115093	→ Housing Plug+Pins (Service Kit)		2
/		115092	→ Housing Plug+Pins (Service Kit)		1
/	PLG214	131058	→ Housing Plug + Skts		1
25	PC7	266586	↓ Circuit Card Assy, Flyback 60w 940V In		1
/	RC30,RC200	201665	→ Housing Plug + Skts (Service Kit)		2
/	PLG72	115092	→ Housing Plug+Pins (Service Kit)		1
/	PLG30	131058	→ Housing Plug + Skts		1
26	PC8	282814	Circuit Card Assy, Link Cooler Mtr		1
27	PC4	247046	↓ Circuit Card Assy, Arc Starter		1
/	PLG42	131204	→ Housing Plug + Skts, (Service Kit)		1
28		179310	Label, General Precautionary Wordless Intl Small		1
29		286276	Baffle, Diverter		1
30		255051	Clip, Ratchet		1
31		265451	Core, Ferrite Round Cable .400 Id Clamp-On Emi Supp		1
32		249747	Core, Ferrite Round Cable .201 Id Clamp-On Emi Supp		1
33		275299	Cable Assy, Hall Effect w/Plugs 19.000 In		1
34		006086	Blank, Snap-In Nyl 1.500 Mtg Hole Black		1

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Main Assembly

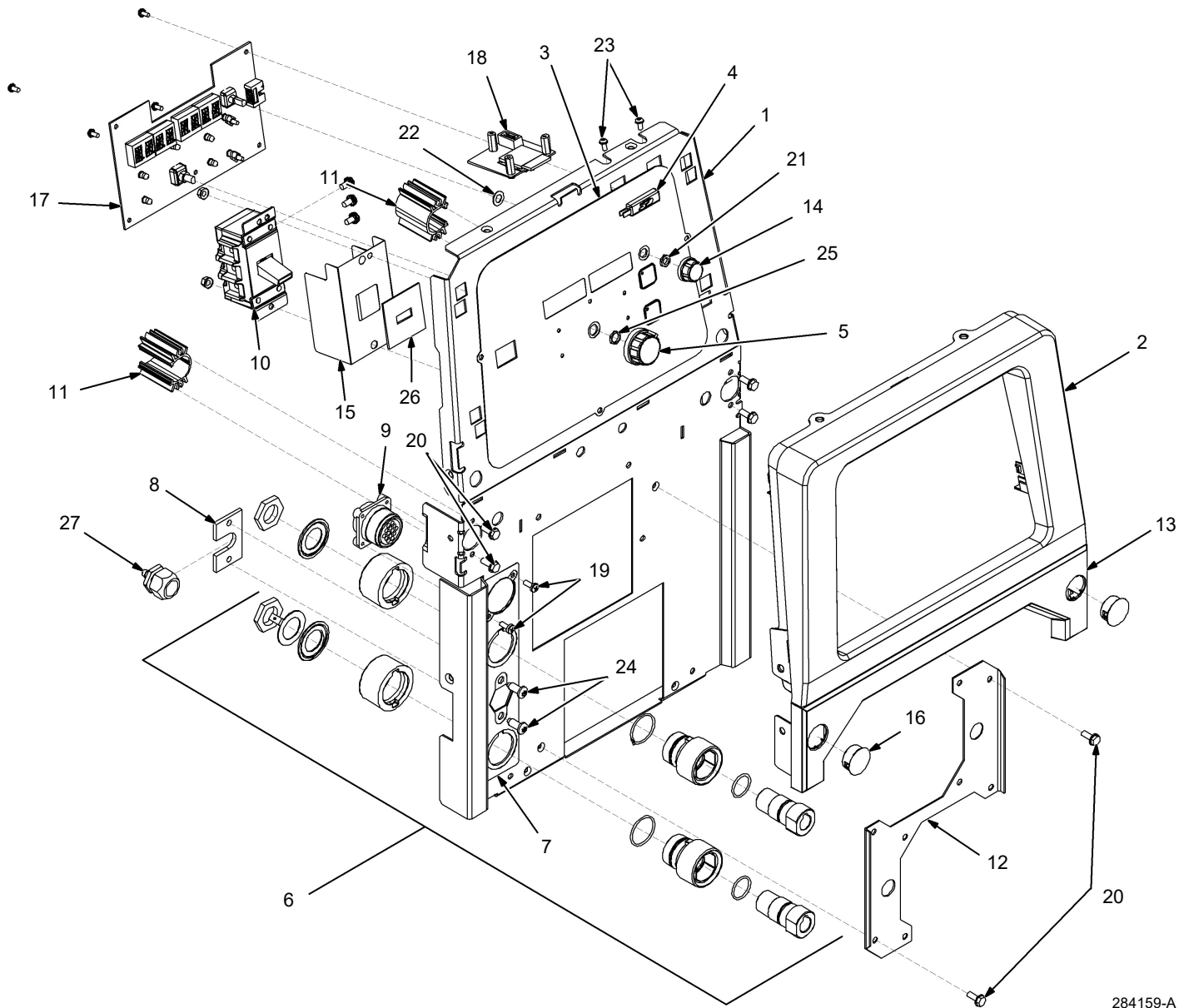
Item No.	Dia. Mkgs.	Part No.	Description	Qty
35	PC10	272678	Circuit Card Assy, Input Filter	1
36		263308	Clip, Mtg Pc Board	2
37		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	1
38		212458	Stand-Off, No 6-32 x .500 Lg .250 Hex Al Fem	1
39		291184	Resistor, Ww 10 W 25K Ohm With Leads+Term (Eff with NC460321, NC30054) (NC290221)	1

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

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284159-A

Panel, Front with Components

Panel, Front with Components

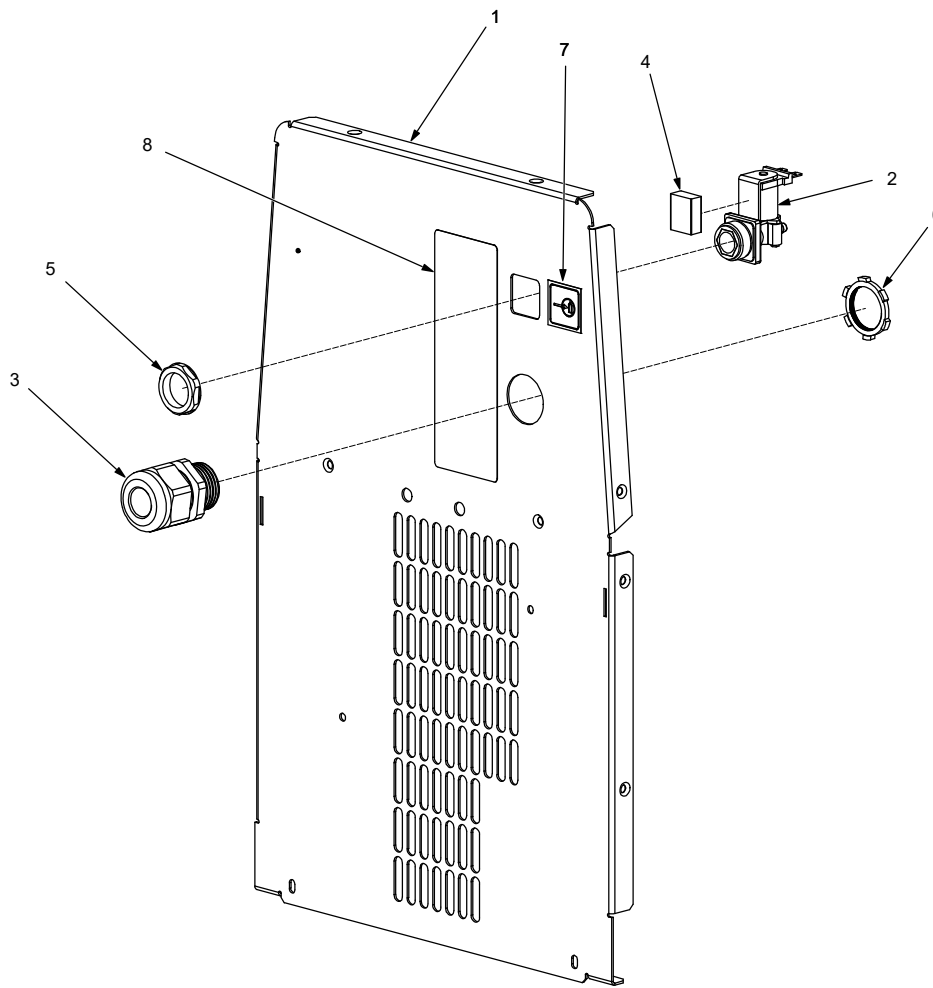
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284160	Panel, Front	1
2		213051	Panel, Front Top	1
3		280539	Nameplate, Miller	1
4		254052	Cover, SD Card	1
5		228546	Knob, Pointer 1.125 Dia x 6mm Id w/Spring Clip - 45mm Flat	1
6		279661	↓ Rcpt Assy, Tw Lk Insul Fem (Dinse Type)	2
/		250043	→ Receptacle, Twist Lock Dinse .890 Od	1
/		274934	→ Insulator, Bulkhead Front	1
/		274935	→ Insulator, Bulkhead Rear	1
/		185718	→ O-Ring, 0.989 Id x 0.070H	1
/		186228	→ O-Ring, 0.739 Id x 0.070 H	1
/		178548	→ Terminal, Connector Friction	1
/		185717	→ Nut, M20-15 100Hex 19H Brs Locking	1
/		229338	→ Washer, Domed Load .812 Id x 1.450 Od x .070 Thk	1
/		229333	→ Screw, M10 - 15 x 20 Hex Hd-Pln 8.8 Pld Sems	1
7		284504	Plate, Indicator Front	1
8		230155	Bracket, Valve Mtg	1
9	RC14	284732	↓ Lead Assy, Process Control to 14 Pin (Includes)	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		284151	Bracket, Mounting Fan	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	2
17	PC3	286234	Kit, Circuit Card Assy, User Interface	1
18	PC9	274828	Circuit Card Assy, Sd Card Interface w/Program	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	12
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		231279	Fitting, Gas-clip Mount	1

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

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284164-C

Panel, Rear with Components

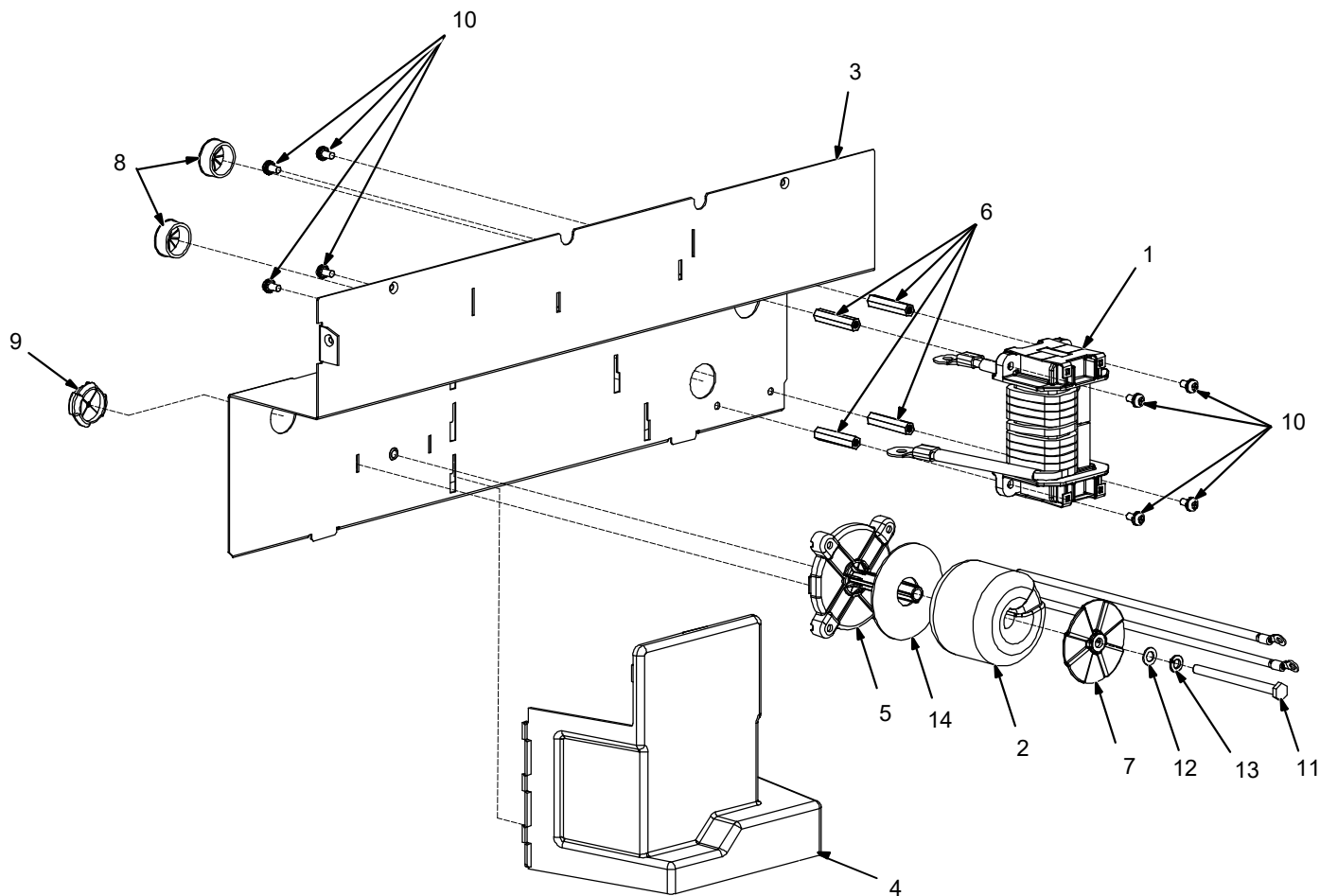
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		+ 284165	Panel, Rear (Order by Model and Serial Number)	1
2	GS1	238805	Valve, 24 VDC 2Way 125 PSI Custom Port 054 Orf w/Frict (Not in Maxstar STR)	1
3		255469	Bushing, Strain Relief .490/.785D x 1.326 Mtg Hole	1
4		278019	Gasket, Emi 10mm x 20mm x 25.4mm	1
5		137761	Nut, 750 Npt 1.31 Hex .27H Nyl Blk	1
6		273571	Nut, Conduit 1.000 Npt Pld 1.71 Od x .14 Thk	1
7		242834	Label, Gas In	1
8		219842	Label, Warning Input Connections/Electric Shock	1

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

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284170-A

Wind Tunnel, LH Lower with Components

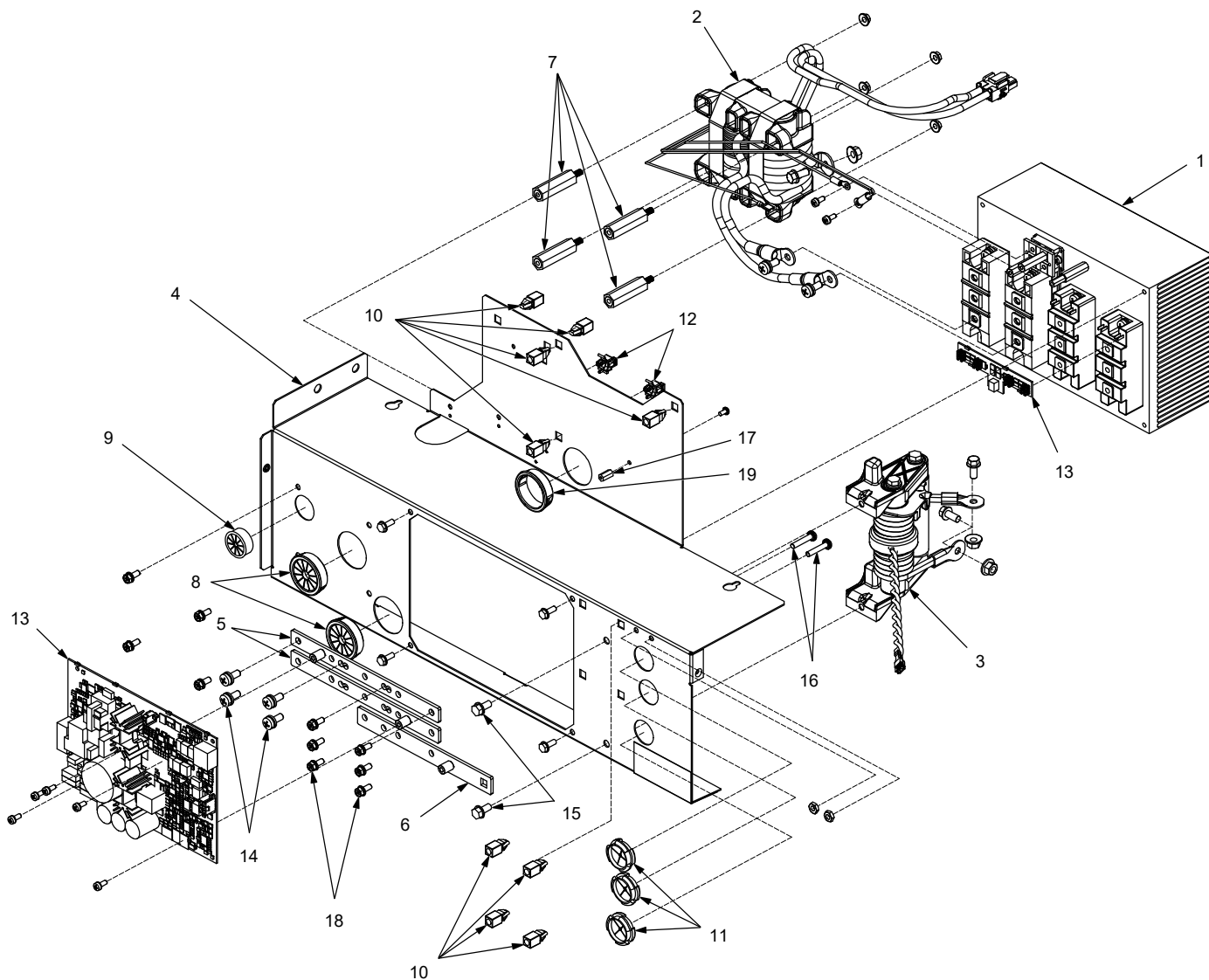
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	Z1	284467	Inductor, Output	1
2	L1	284225	Inductor, Input Toroidal Xflux	1
3		284171	Windtunnel, Lh Lower	1
4		284056	Baffle, Primary	1
5		284508	Base, Mounting Inductor Toroid	1
6		284506	Stand-Off, No 10-32 x 1.500 Lg .312 Hex Al Fem	4
7		284509	Cap, Mounting Inductor Toroid	1
8		153403	Bushing, Snap-In Nyl .750 Id x 1.000 Mtg Hole Cent	2
9		278885	Grommet, Rubber	1
10		212939	Screw, 010-32 x .37 Pan Hd-Plt Stl Pld Sems Ext T	8
11		044710	Screw, .250-20 x .325 Hex Hd-Pln Stl Pld	1
12		254153	Washer, Flat .281 Id x 0.500 Od x .031T Stl Pld	1
13		602207	Washer, Lock .255 Id x 0.489 Od x .062T Stl Pld Split .250	1
14		286557	Gasket, Inductor Mounting Toroid	1

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

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284168-D

Wind Tunnel, LH Upper with Components

Wind Tunnel, LH Upper with Components

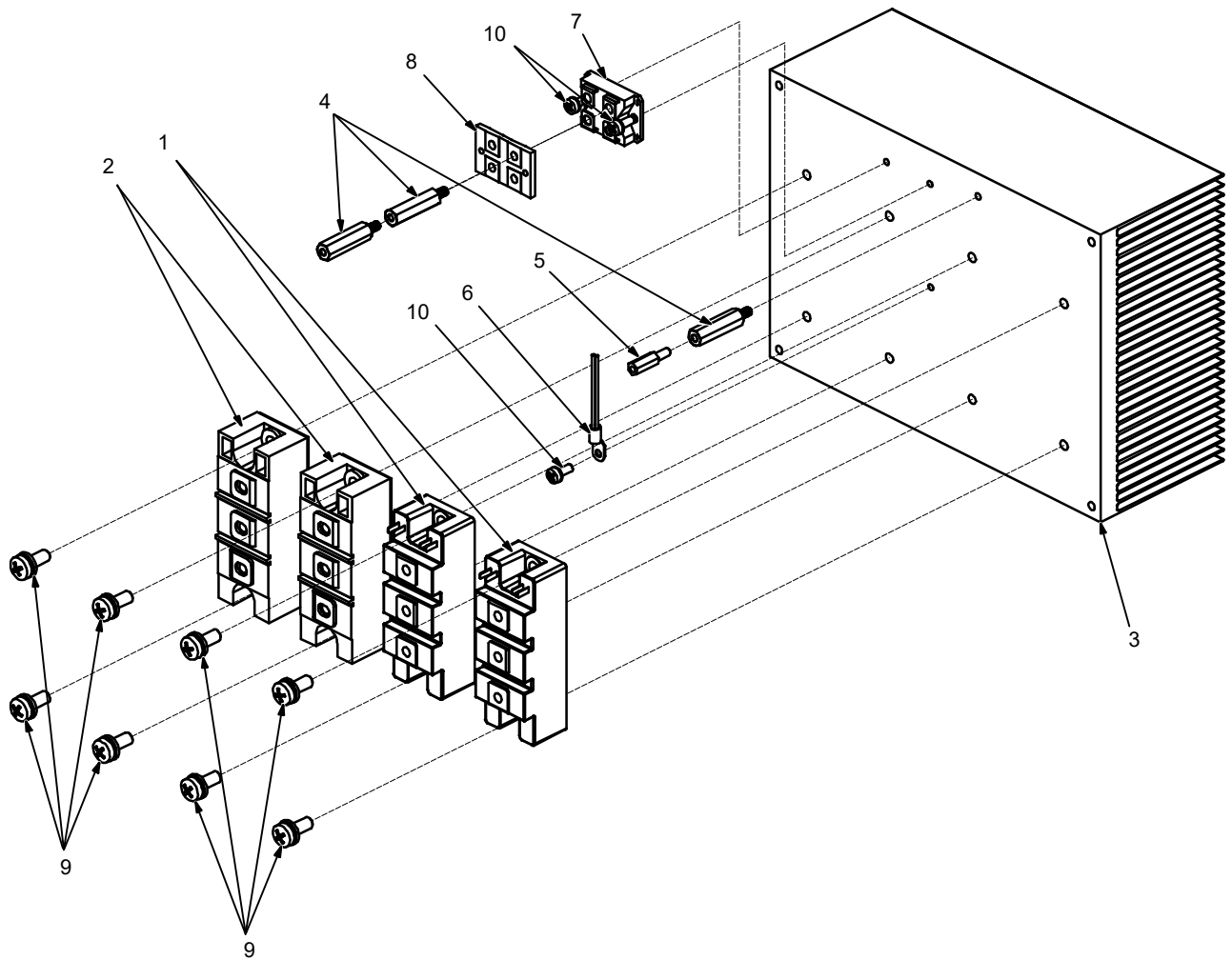
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284505	Heat Sink, Secondary Assembly	1
2	T1	284459	XFMR, Hf Litz/Litz w/Boost	1
3	T2	284463	XFMR, Hf Coupling	1
4		284169	Windtunnel, Lh Upper	1
5		284152	Bus Bar, Cop .625 x 7.750 x .125 Thk	2
6		284153	Bus Bar, Cop .750 x 7.000 x .125 Thk	1
7		284506	Stand-Off, No 10-32 x 1.500 Lg .312 Hex Al Fem	4
8		245520	Bushing, Snap-In Nyl 1.062 Id X 1.500 Mtg Hole Cent	2
9		153403	Bushing, Snap-In Nyl .750 Id x 1.000 Mtg Hole Cent	1
10		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	9
11		278885	Grommet, Rubber	3
12		263308	Clip, Mtg Pc Board	2
13	PC5	283668	Circuit Card Assy, Secondary Commutator Basic	1
14		229331	Screw, M6 - 10 x 16 Pan Hd-phl Stl Pld Sems	4
15		233913	Screw, .250-14 x .50 Hexwhd T-25 T/C SC ZC	2
16		132729	Screw, 010-24 x .100 Pan Hd-Phl Stl Pld Sems Ext T	2
17		212458	Stand-Off, No 6-32 x .500 Lg .250 Hex Al Fem	1
18		229327	Screw, M5 - .8 x 12 Hex Hd-Phl 8.8 Pld Sems Clr	6
19		170647	Bushing, Snap-In Nyl 1.312 Id x 1.500 Mtg Hole	6

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

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284505-A

Heat Sink, Secondary Assembly

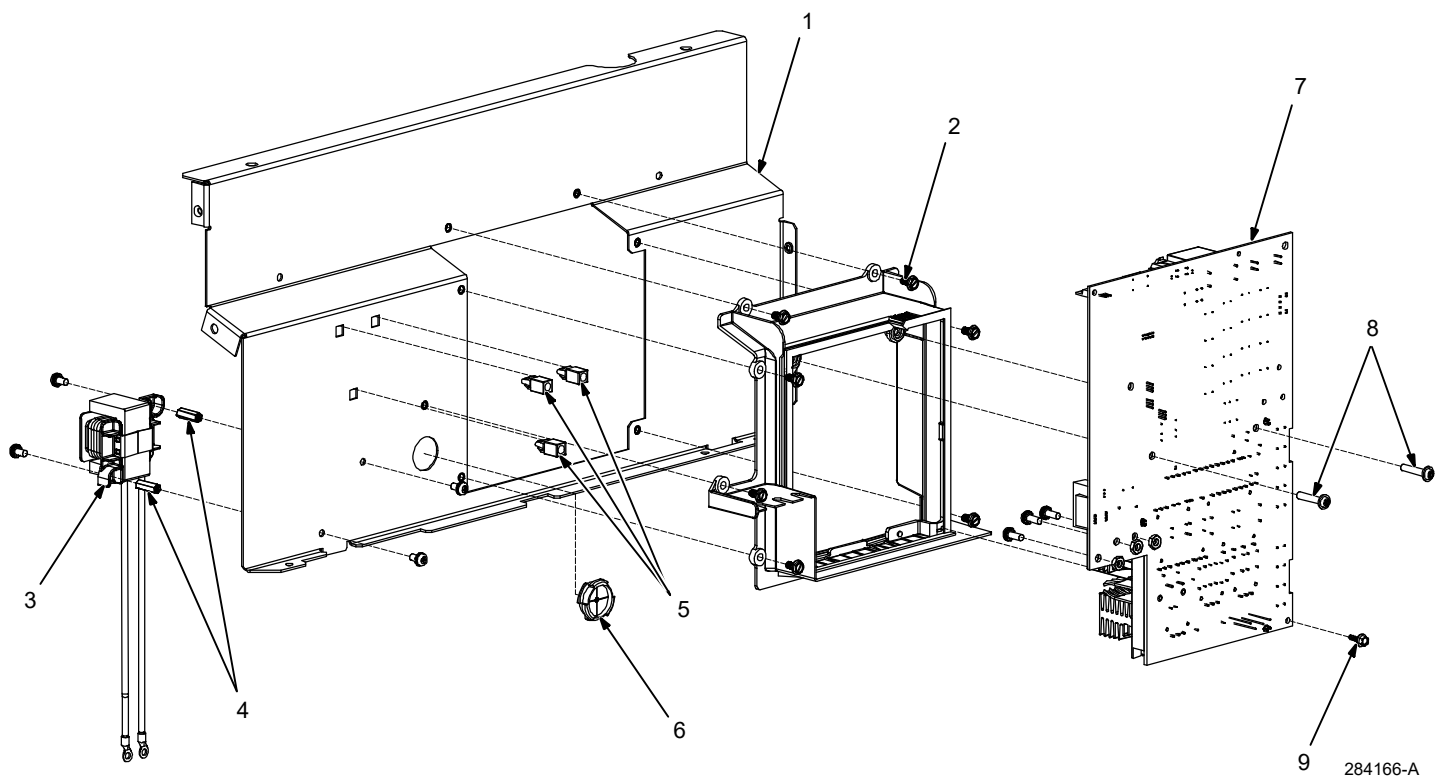
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	PM21,PM22	287149	Transistor, IGBT Module 295A 600V Dual Pcm Smkrn	2
2	D21-D22	287147	Kit, Diode	2
3		278638	Heat Sink, Secondary	1
4		274924	Stand-Off, M4 x 0.7 x 30mm	3
5		284510	Stand-Off, M4 x 0.7 x 15mm Lg 6mm Hex Nyl M&F	1
6	RT1	213353	Thermistor, NTC 30K Ohm @ 25 Deg C 8 In Lead	1
7	D23	201530	Kit, Diode Fast Recovery Bridge	1
8		250831	Spacer, PWB	1
9		229331	Screw, M6 - 10 x 16 Pan Hd-phl Stl Pld Sems	8
10		214496	Screw, M4 - 7 x 10 Pan Hd-Phl Stl Pld Lkg Wshr Sems	3

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

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Wind Tunnel, RH with Components

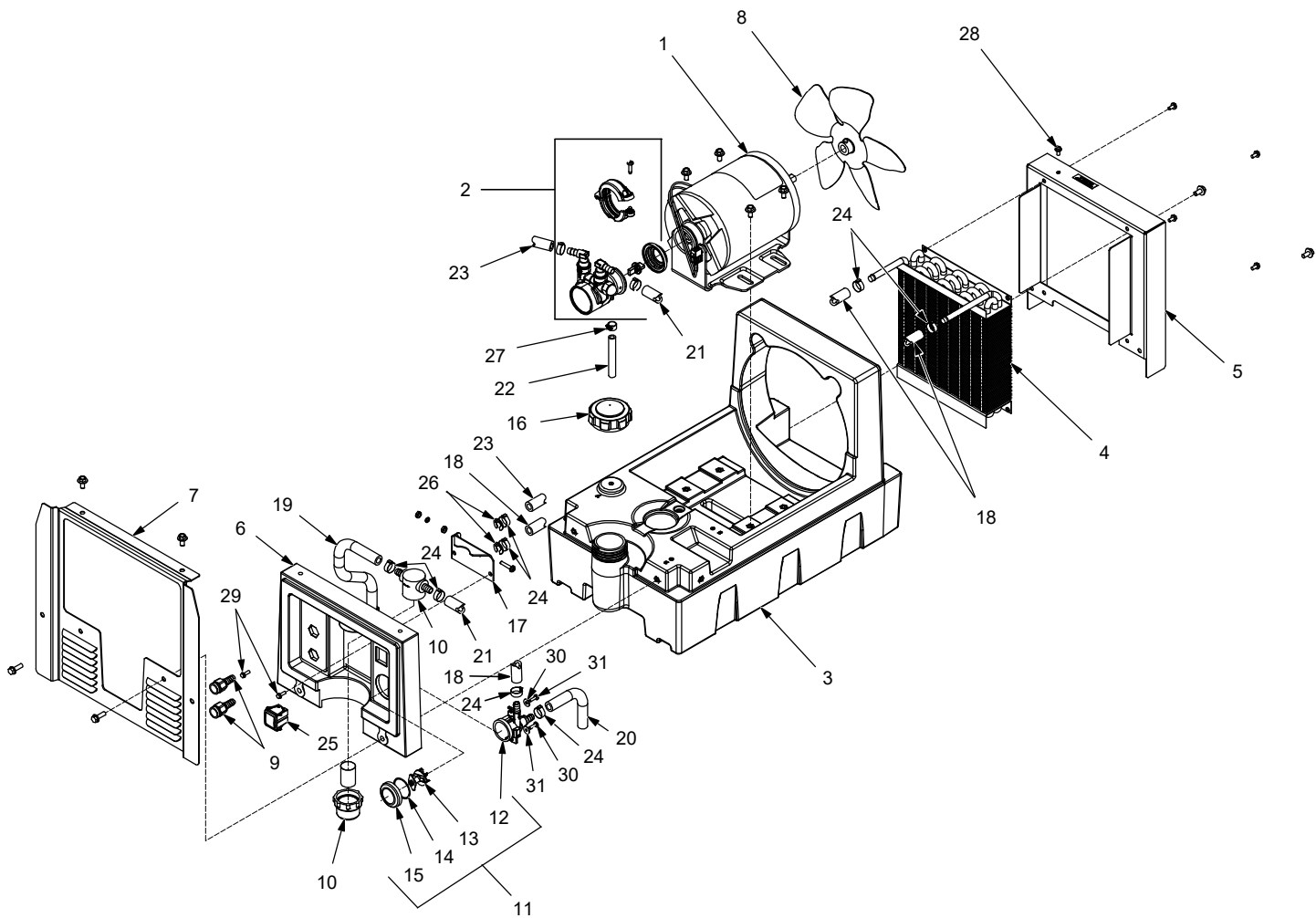
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		284167	Windtunnel, RH	1
2		284055	Adaptor, Pri Pcb Mount	1
3	L3	284465	Inductor, Di-Dt	1
4		284507	Stand-Off, No 10-32 x .750 Lg .250 Hex Nyl Fem	2
5		083147	Grommet, Scr No 8/10 Panel Hole .312 Sq .500 High	3
6		278885	Grommet, Rubber	1
7	PC1	286235	↓ Kit, PCB Board Primary	1
/	PLG308	201665	→ Housing Plug + Skts (Service Kit)	2
8		208536	Screw, K50 x 25 Rnd Washer, Hd-trx	2
9		265406	Screw, K35 x 12 Hexwhd Stl Pld Pt Thread Forming Blk	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

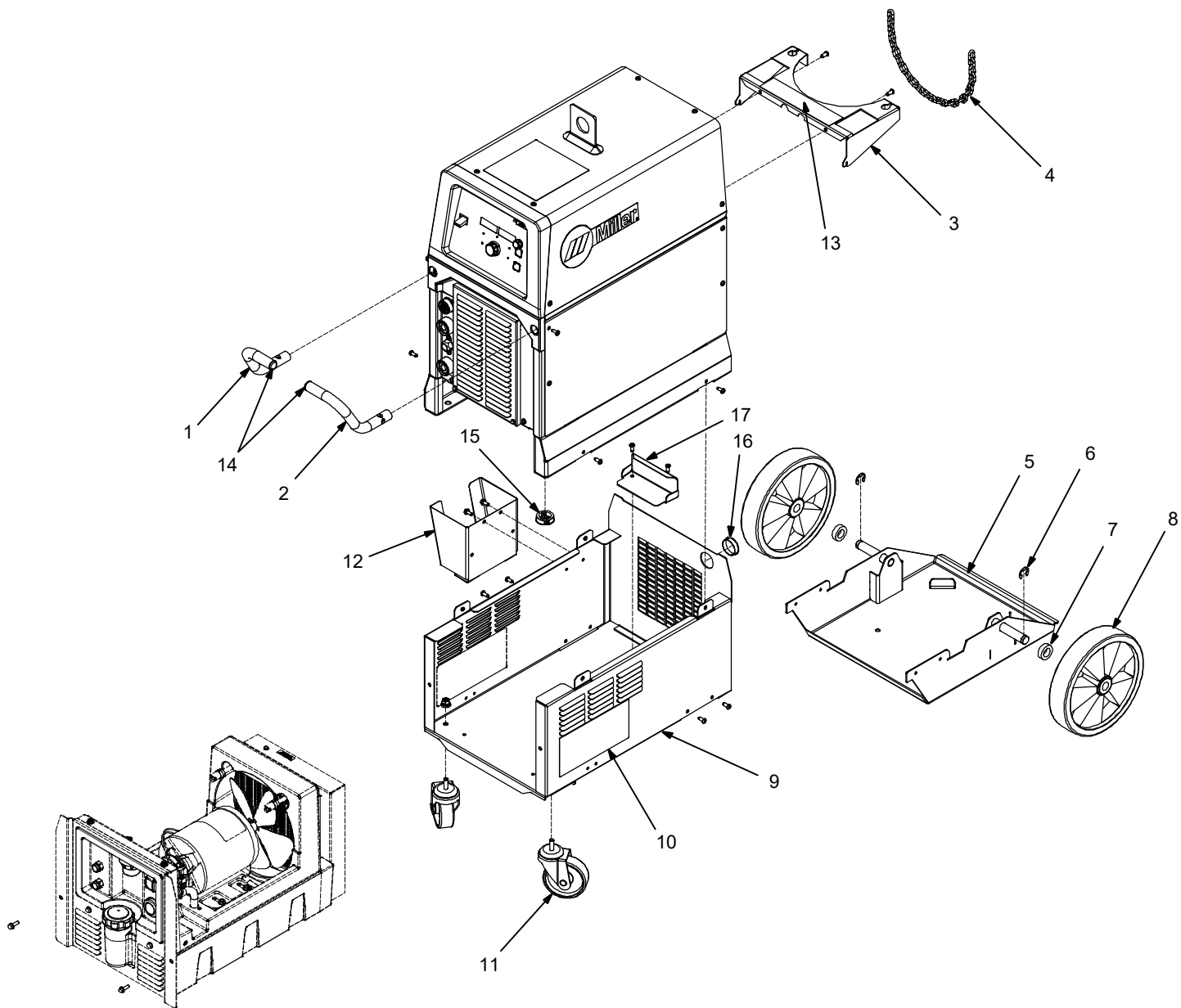
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		285062	Motor, 1/4 Hp 230 Vac 50/60 Hz 1425/1725 Rpm Dual	1
2		290632	↓ Kit, Pump Coolant (Includes)	1
/		285200	→ Pump, Coolant w/Fittings	1
/		284058	→ Coupler, Drive	1
/		284057	→ Ring, Insulator	1
/		284051	→ Clamp, Pump	1
/		235065	→ Screw, 010-32 x .75 Pan Hd-Torx Stl Zc Pld	1
/		010323	→ Clamp, Hose .250-.625 Clip 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 Clip 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 Clip Dia	6
25		285201	Blank, Switch	1
26			Not used on this model	0
27		084173	Clamp, Hose .460-.545 Clip 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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