



PM-275857B

2020-11

Processes

TIG (GTAW) Welding



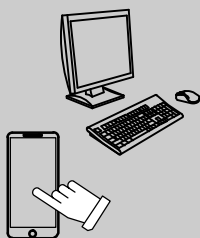
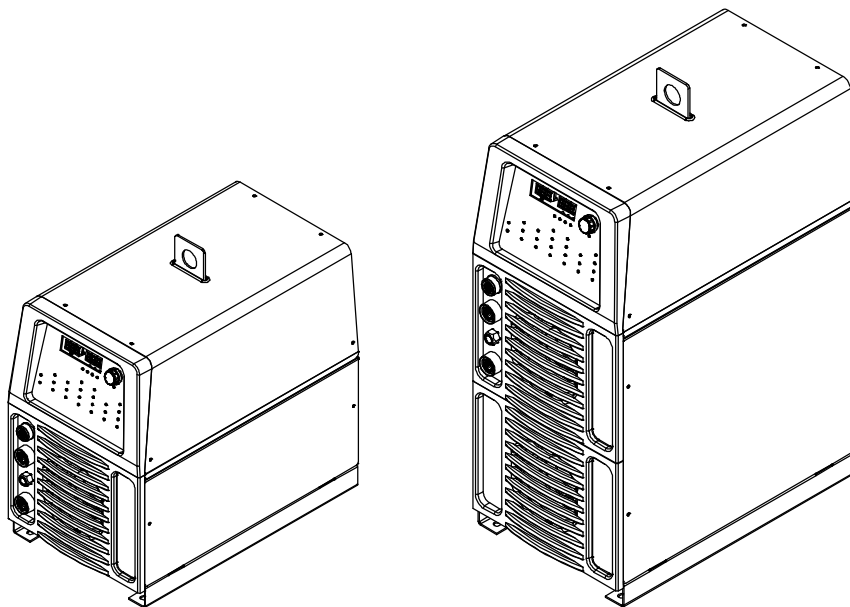
Stick (SMAW) Welding

Description

208/575 Volt Models w/Auto-Line™
380/575 Volt Three-Phase
w/Auto-Line™ (CE)
Arc Welding Power Source

Dynasty[®] 400, 800 Maxstar[®] 400, 800 CE And Non-CE Models Eff w/MH040314L And Following

For OM-275857 Revision A And Following



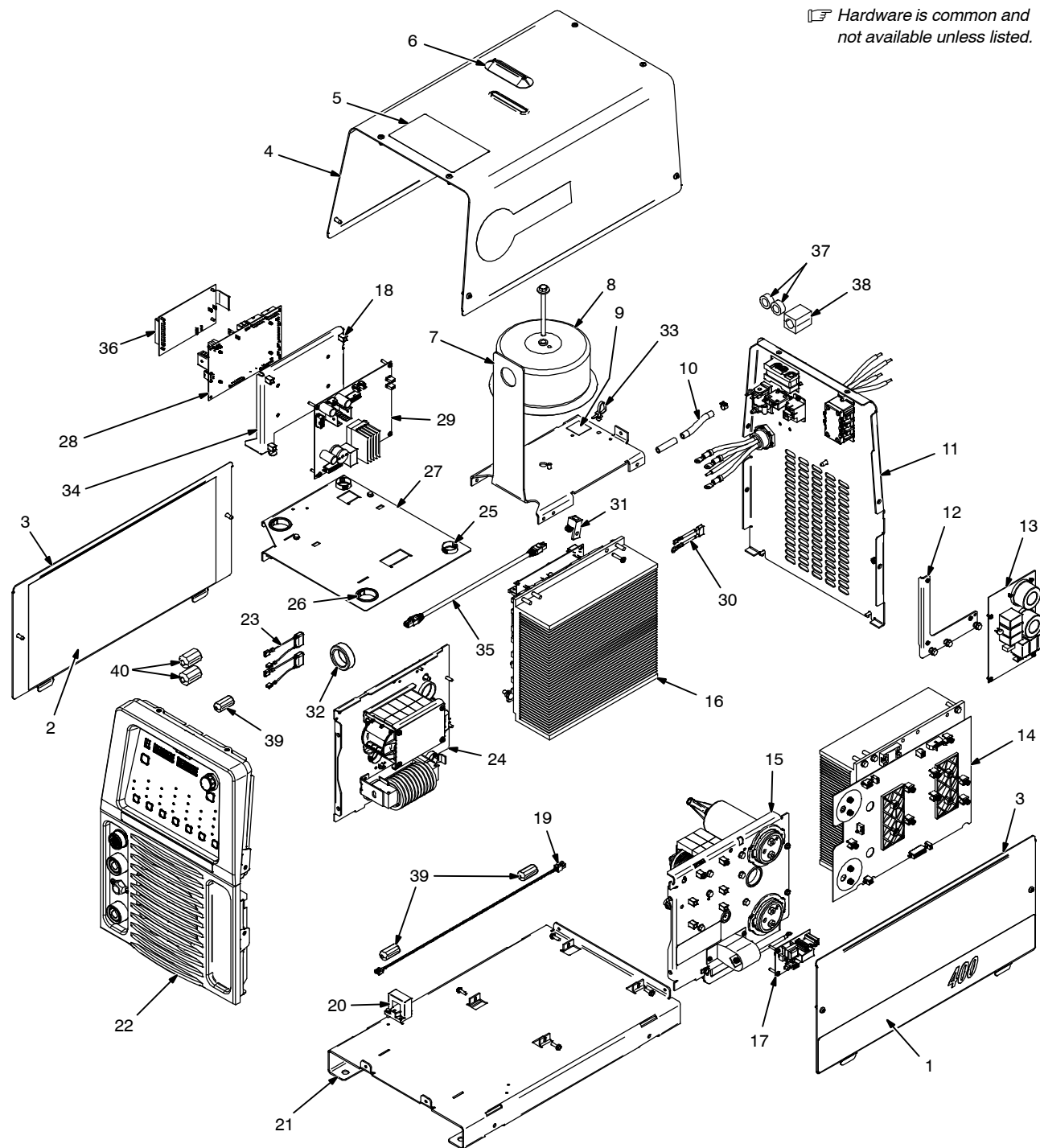
For product information,
Owner's Manual translations,
and more, visit

www.MillerWelds.com

PARTS MANUAL

SECTION 1 – DYNASTY/MAXSTAR 400 PARTS LIST FOR SERIAL NO. MH040314L AND FOLLOWING

 Hardware is common and
not available unless listed.



Dynasty 400 illustrated

805581-A

Figure 1-1. Main Assembly

Eff w/ Serial No. MH040314L And Following

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
Figure 1-1. Main Assembly				
1		275864	Label, Side Dynasty 400	2
1		275863	Label, Side Maxstar 400	2
2		224516	Insulator, Side	2
3		216878	Panel, Side	2
4		213056	Wrapper, Top	1
5		280528	Label, Warning General Precautionary (En/Fr/Sp)	1
5		179310	Label, General Precautionary Wordless Intl Small	1
6		213073	Seal, Lift Eye	1
7		213058	Lift Eye	1
8	T3	275365	XFMR, 665 115/24 18/18 220 (Prior to MK350059L)	1
8	T3	280906	XFMR, Control Toroidal 665 VAC PRI 660VA 60Hz (Eff/w MK350059L)	1
9		155436	Label, Ground/Protective Earth	1
10		254015	Hose, Nprn Brd No 1 x .250 Id x 23.000	1
11	Figure 1-3		Panel, Rear w/Components	1
12		277569	Bracket, Filter Board	1
13	PC10	279206	Circuit Card Assy, Input Filter (CE)	1
14	Figure 1-5		Heatsink, Primary Assy	1
15	Figure 1-4		Windtunnel, Right Hand w/Components	1
16	Figure 1-7		Heatsink, Secondary - Dynasty 400	1
16	Figure 1-8		Heatsink, Secondary - Maxstar 400	1
17	PC4	247046	Circuit Card Assy, HF	1
	PLG1	131204	Housing Rcpt+Skts, (Service Kit)	1
18		083147	Grommet, SCR No 8/10 Panel Hole .312 Sq .375 High	8
19		275299	Cable Assy, Hall Effect w/Plugs 19 In.	1
20	HD1	182918	Transducer,Current 400A Module Supply V +/- 15V	1
21		213055	Base	1
22	Figure 1-2		Panel, Front w/Cmpnts	1
		224521	Connection Kit, Dinse	1
23	C22,C24	221707	Capacitor Assy	2
24	Figure 1-6		Windtunnel, Left Hand w/Components	1
25		057357	Bushing, Snap-in Nyl .937 Id x 1.125 Mtg Hole	2
26		170647	Bushing, Snap-in Nyl 1.312 Id x 1.500 Mtg Hole	2
27		274961	Panel, Top Windtunnel	1
28	PC2	279663	Circuit Card Assy, Process Control	1
	PLG1	115093	Housing Rcpt+Skts, (Service Kit)	1
	PLG40	115094	Housing Rcpt+Skts, (Service Kit)	1
	PLG60	131055	Housing Rcpt+Skts, (Service Kit)	1
	PLG80	131204	Housing Rcpt+Skts, (Service Kit)	1
	PLG100	131056	Housing Rcpt+Skts, (Service Kit)	1
	PLG140	131056	Housing Rcpt+Skts, (Service Kit)	1
29	PC7	280555	Circuit Card Assy, Aux Power w/Program	1
	PLG150	130203	Housing Rcpt+Skts, (Service Kit)	1
	PLG222	131204	Housing Plug+Skts, (Service Kit)	1
	PLG4	158719	Housing Plug+Skts, (Service Kit)	1
	PLG7	131052	Housing Rcpt+Skts, (Service Kit)	1
	PLG10	131054	Housing Plug+Skts, (Service Kit)	1
	PLG11	115093	Housing Plug+Skts, (Service Kit)	1
30	C23	233133	Capacitor Assy, (Maxstar CE)	1
31		213248	Lug, Univ W/Screw 2/0-14 Wire .266Std	1
32	L45	131447	Core, Toroidal 1.332 Id x 1.932 Od x .625 Thk (Dynasty CE)	1
33		235496	Cable Tie, 0.06-2.000 Bundle Dia Tree Style Push Mount	1
			Mtg Hole Dia .246-.276	1
34		275176	Bracket, Mtg Circuit Card Assy	1
35		275127	Cable, Ethernet	1
		278161	Kit, Automation Interface Connection (Includes) (Not Shown)	1
36	PC13	273436	Circuit Card Assy, Automation	1
		278321	Receptacle, w/Leads & Plug 28 Pin	1
		218715	Conn, Circ Ms/Cpc 28 Pin Size 17 Plug Cable Push-in	1
		218713	Conn, Circ Ms/Amp Pin Push-in 20-24Ga Solder Cup	28
		079739	Conn, Circ Cpc Clamp Str Rlf Size 17-20 .703 Od	1

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
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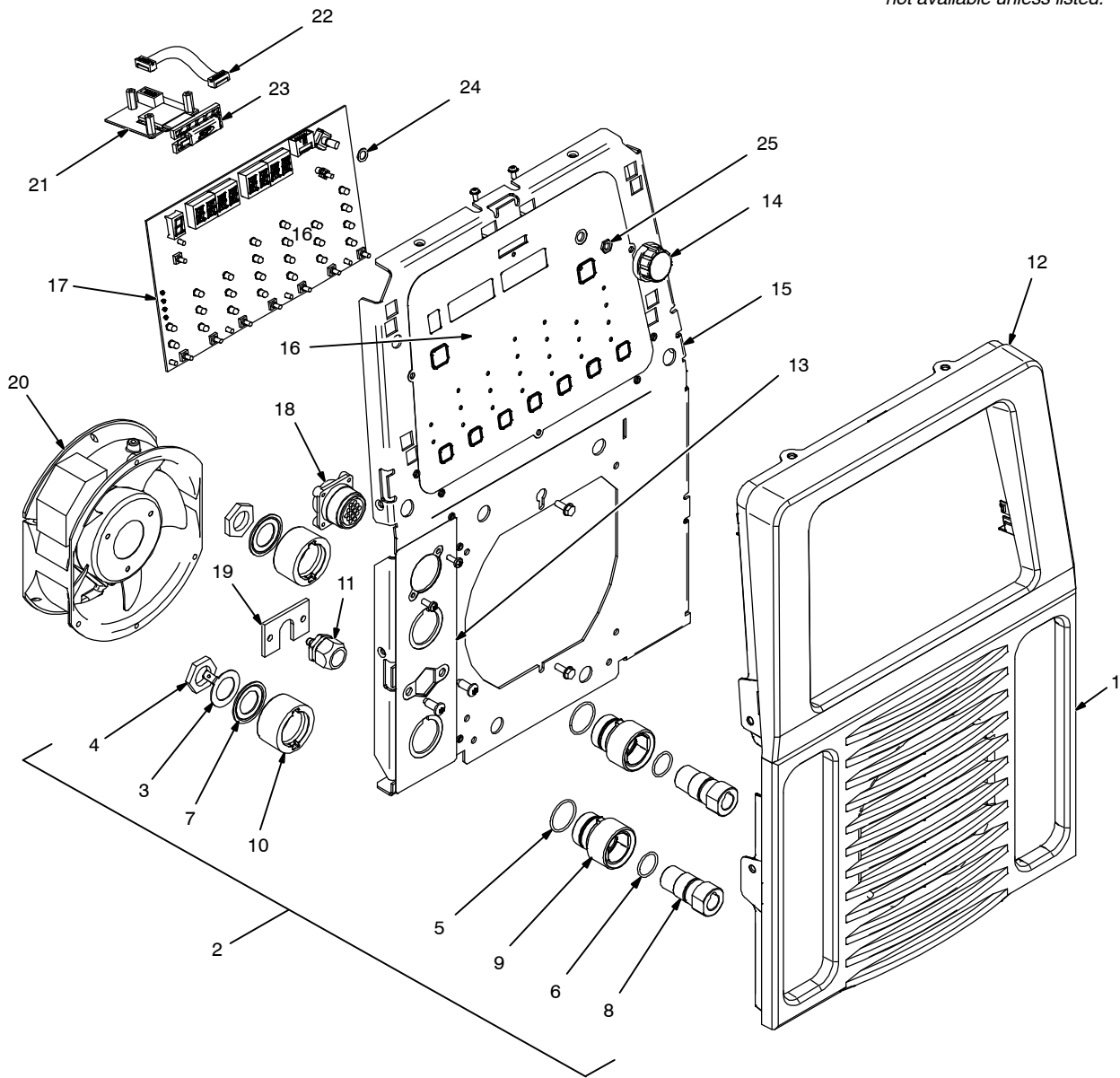
Figure 1-1. Main Assembly

.....	PLG210	..	167333	..	Housing Rcpt+Sks, (Service Kit)		1
.. 37 ..	L42,L43	...	268209		Core, Ferrite 25.4mm Odx15.5mm ldx12.7mm Lg(CE) (Maxstar Only)		2
.. 38 ..	L40		278026		Core, Ferrite 25.4mm Odx15.5mm ldx12.7mm Lg(CE) (Maxstar Only)		1
.. 39 .	L31,L32,L37		249747		Core, Ferrite Round Cable .201 Id Clamp-On EMI Supp		3
.. 40 ...	L33,L34	...	265451		Core, Ferrite Round Cable .400 Id Clamp-On EMI Supp		2

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

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.

 Hardware is common and not available unless listed.



805582-A

Figure 1-2. Panel, Front w/Components

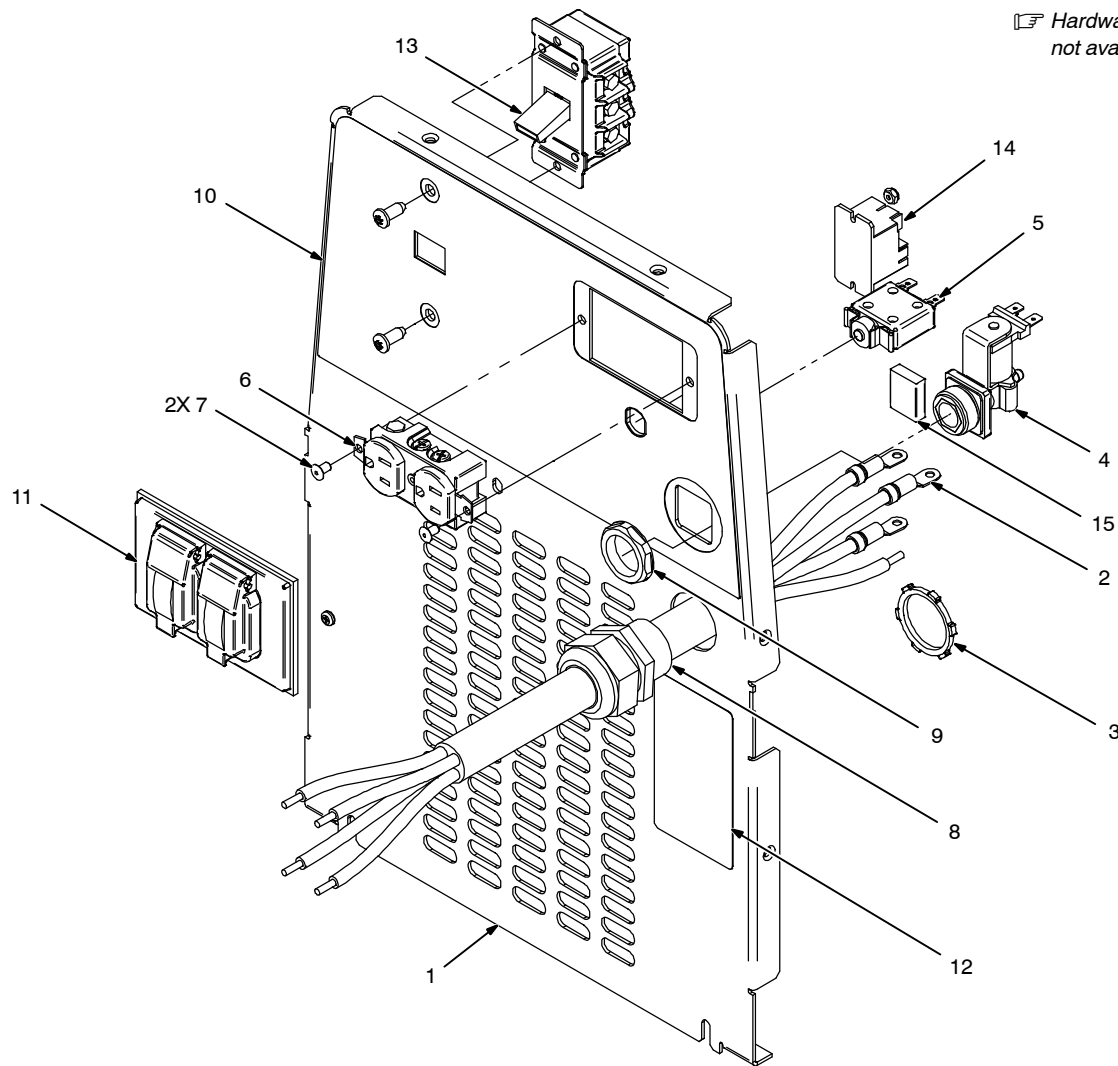
Eff w/ Serial No. MH040314L And Following

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
275858 Figure 1-2. Panel, Front w/Components				
.. 1		213053	.. Panel, Louver Cover	1
.. 2		279661	.. Rcpt Assy, Tw Lk Insul Fem (Dinse Type) (Includes)	2
.. 3		178548	 Terminal, Connector Friction	1
.. 4		185717	 Nut, M20-1.5 1.00 Hex .19H Brs Locking	1
.. 5		185718	 O-Ring, 0.989 Id x 0.070 H	1
.. 6		186228	 O-Ring, 0.739 Id x 0.070 H	1
.. 7		229338	 Washer, Domed Load .812 Id x 1.450 Od x .070 Thk	1
.. 8		250043	 Receptacle, Twist Lock Brass Power (Female)	1
.. 9		274934	 Insulator, Bulkhead Front	1
.. 10		274935	 Insulator, Bulkhead Rear	1
.. 11		231279	.. Fitting, Gas-Clip Mount	1
.. 12		213051	.. Panel, Front Top	1
.. 13		233115	.. Plate, Indicator Front - Dynasty 400	1
.. 13		233116	.. Plate, Indicator Front - Maxstar 400	1
.. 14		228546	.. Knob, Pointer 1.250 Dia x 6mm Id w/Spring	1
.. 15		273669	.. Panel, Front	1
.. 16		273670	.. Nameplate, Dynasty	1
.. 16		275861	.. Nameplate, Maxstar	1
.. 17	PC3	279664	.. Circuit Card Assy, Interface w/Program	1
.. 18	RC1	275258	.. Receptacle, w/Leads & Plug 14 Pin	1
.. 19		230155	.. Bracket, Valve Mtg	1
.. 20	FM	213072	.. Fan, Muffin	1
.. 21	PC9	274828	.. Circuit Card Assy, SD	1
.. 22		254529	.. Cable, Ribbon	1
.. 23		254052	.. Cover, SD Card	1
.. 24		254153	.. Washer, Flat .281 Id x 0.500 Od x .031 T Stl Pld	1
.. 25		254151	.. Nut, M07-.75 10mm Hex 2mm H Stl Pld	1

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

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Figure 1-3. Panel, Rear w/Components

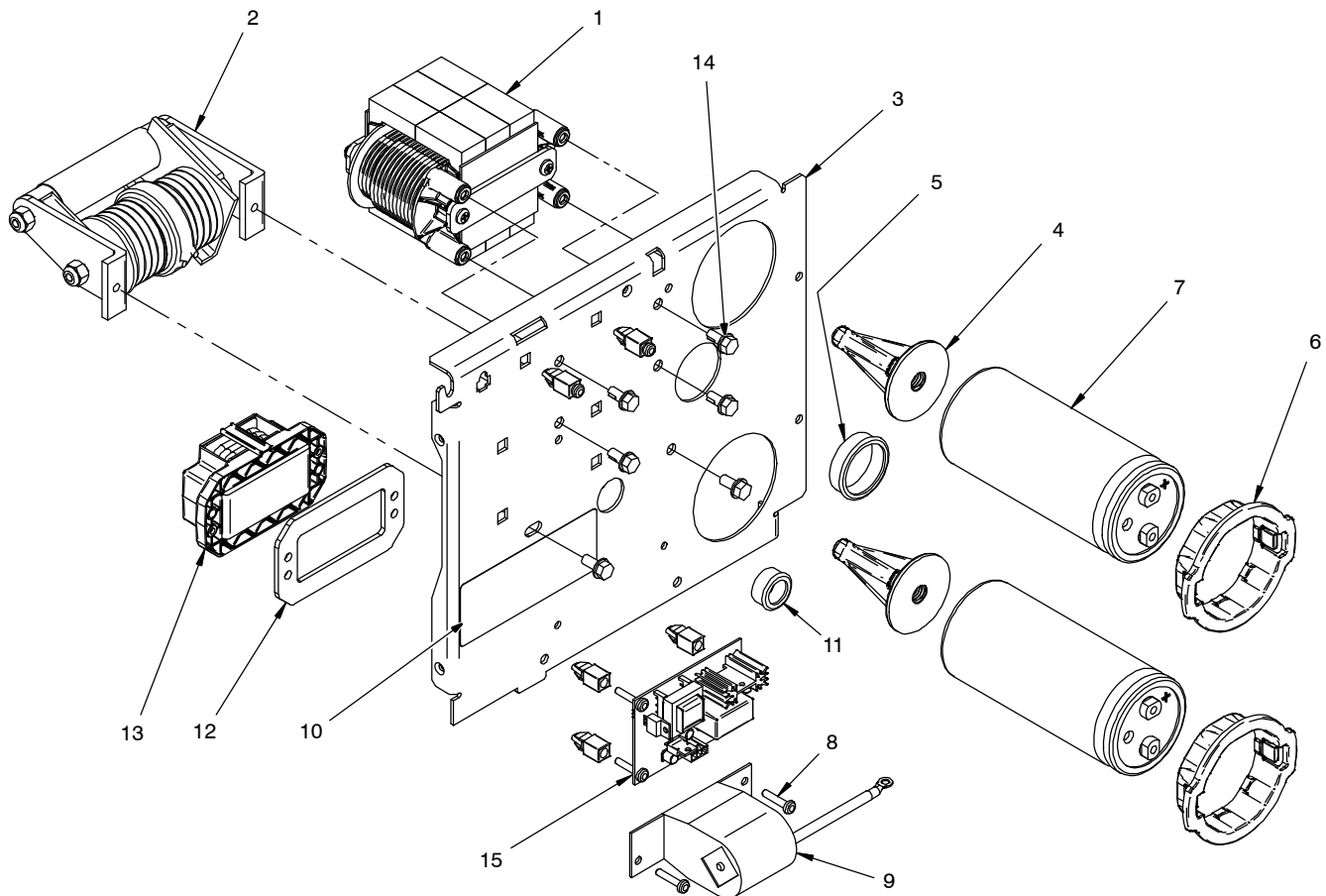
Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274712 Figure 1-3. Panel, Rear w/Components				
.. 1		+273981 ..	Panel, Rear (Order By Stock And Serial Number)	1
.. 2		216880 ..	Cable, Power	1
.. 2		278248 ..	Cable, Power (CE)	1
.. 3		182445 ..	Nut, Conduit 1.000 Npt Pld 1.688 Od x .200 Thk	1
.. 4	GS1	238805 ..	Valve, 24 VDC 2-way,125 PSI Custom Port.054 Orf w/Fr	1
.. 5	SP1	183492 ..	Supplementary Protector, Man Reset 1P 10A 250V Fric (Prior to MK350059L)	1
.. 5	SP1	202711 ..	Supplementary Protector, Man Reset 1P 7A 250V Fric (Eff/w MK350059L)	1
.. 6	RC2	189033 ..	Rcpt, Str Dx Gnd 2P3W 15A 125V (Gray)	1
.. 7		127013 ..	Rivet, Al .187 Dia x .063-.125 Grip Blk Blind Dome	2
.. 8		215980 ..	Bushing, Strain Relief .709/.984 Id x 1.375 Mtg Hole	1
.. 8		255469 ..	Bushing, Strain Relief .490/.785 Id x 1.326 Mtg Hole (CE)	1
.. 9		137761 ..	Nut, 750 Npt 1.31Hex .27H Nyl Blk	1
.. 10		277568 ..	Nameplate, Ident Rear	1
.. 11		217297 ..	Cover, Receptacle Weatherproof Duplex Rcpt	1
.. 12		217480 ..	Label, Warning Incorrect Connections	1
.. 12		219842 ..	Label, Warning Input Connections/Electric Shock (CE)	1
.. 13	S1	244920 ..	Switch, Tgl 3Pst 40A 600 VAC Scr Term Wide Tgl	1
.. 14	CR1	206258 ..	Relay, Encl 24 VDC Spst 30A/240 VAC 4 Pin Flange Mtg	1
.. 15		278019 ..	Gasket, EMI 10mm x 20mm x 25.4mm	1

Eff w/ Serial No. MH040314L And Following

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

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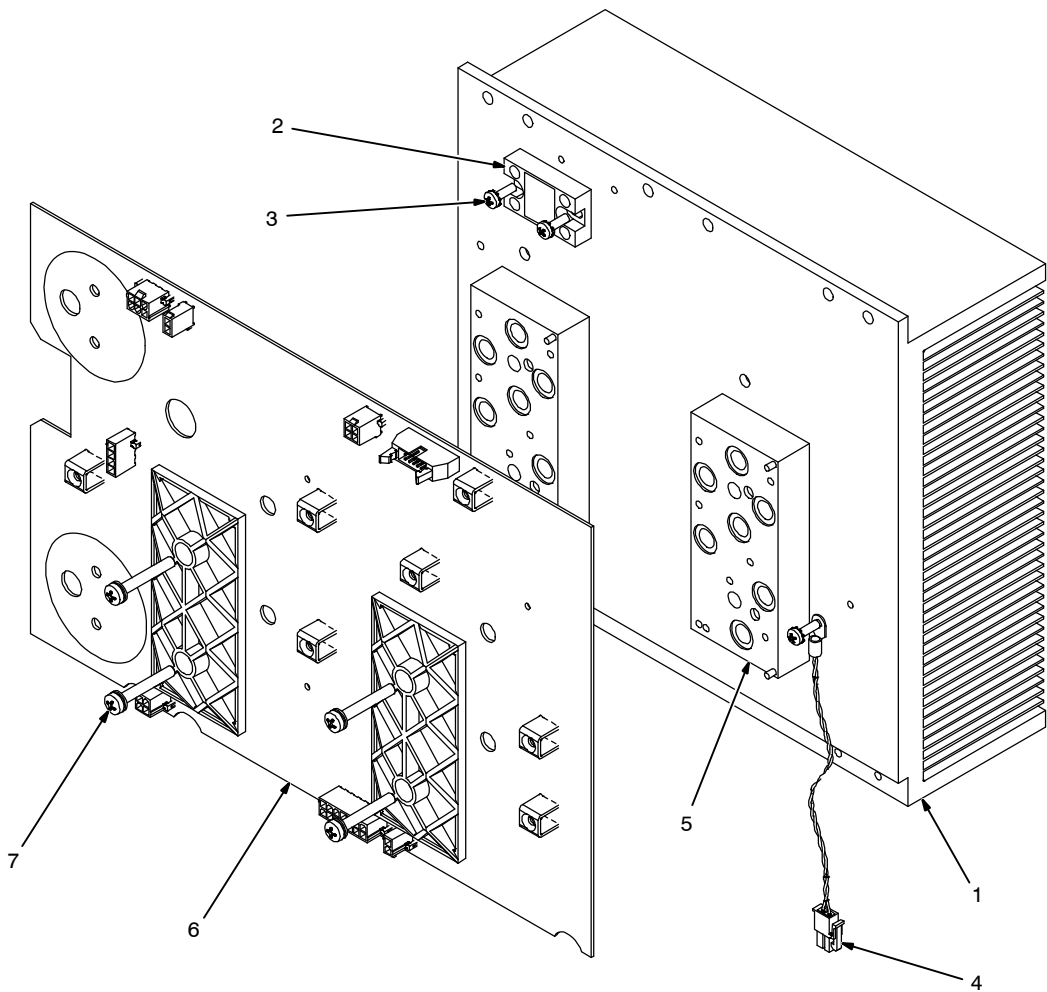
Figure 1-4. Wind Tunnel, Right Hand w/Components

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274987 Figure 1-4. Wind Tunnel, Right Hand w/Components				
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 20 Pan Hd-Phl Stl Pld Pt Thread Forming	2
9	C11	216700	Capacitor, Polyp Met Film 16. UF 400 VAC 10%	1
10		218004	Label, Warning Electric Shock/Exploding Parts	1
10		219844	Label, Warning Electric Shock/Exploding Parts-Wdles (CE)	1
11		010493	Bushing, Snap-in Nyl .625 Id x .875 Mtg Hole	1
12		218566	Gasket, Inductor Mounting	1
13	L12	213348	Coil, Inductor (Pre-Regulator)	1
14		233913	Screw, 250-14 x .50 Hexwhd T-25 T/C SC ZC	6
15	PC4	247046	Circuit Card, HF	1

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

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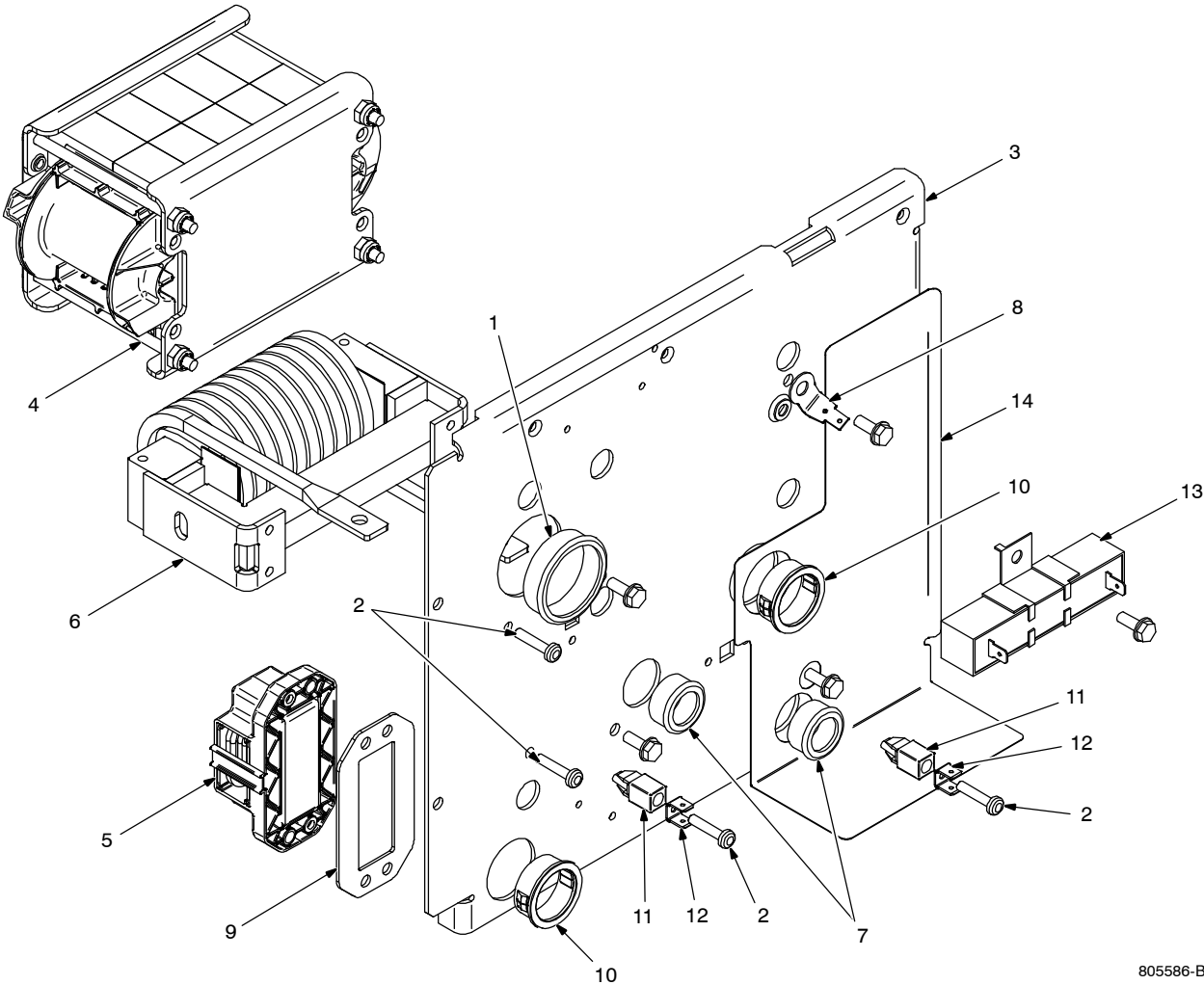
Figure 1-5. Heatsink, Primary Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274988 Figure 1-5. Heatsink, Primary Assembly				
.. 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 8in. Lead	1
.. 5	MOD1,2	261556 ..	Kit, Input/Pre–Regulator And Inverter Module	1
.. 6	PC1	276658 ..	Circuit Card Assy, Power Interconnect	1
.....	PLG101	131054 ..	Housing Rcpt+Skts, (Service Kit)	1
.....	PLG2	201665 ..	Housing Rcpt+Skts, (Service Kit)	1
.....	PLG400	115093 ..	Housing Rcpt+Skts, (Service Kit)	1
.....	PLG6	131056 ..	Housing Rcpt+Skts, (Service Kit)	1
.....	PLG71	115094 ..	Housing Rcpt+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

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

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.

 Hardware is common and not available unless listed.



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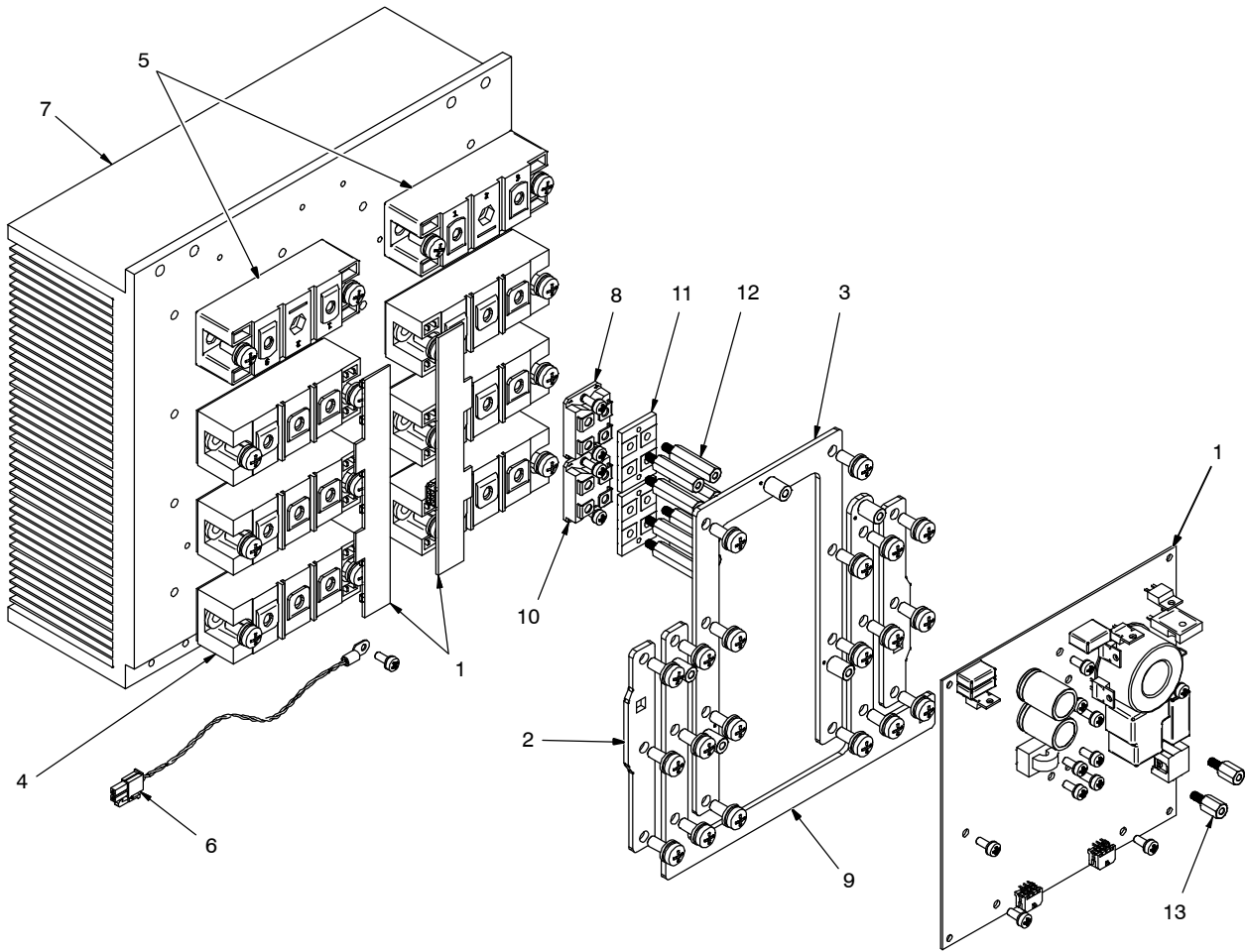
Figure 1-6. Wind Tunnel, Left Hand w/Components

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274756 Figure 1-6. Wind Tunnel, Left Hand w/Components				
.. 1		170647 ..	Bushing, Snap-in Nyl 1.312 Id x 1.500 Mtg Hole	1
.. 2		207418 ..	Screw, K40 x 12 Pan Hd-Phl Stl Pld Pt Thread Forming	2
.. 3		274960 ..	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	1
.. 7		010493 ..	Bushing, Snap-in Nyl .625 Id x .875 Mtg Hole	2
.. 8		231208 ..	Connector, Rectifier	1
.. 9		227746 ..	Gasket, Inductor Mounting E55 Ferrite Core	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	R21	275003 ..	Resistor, WW Fxd 50 W 10 Ohm 5% w/Ter (Dynasty Only)	1
.. 14		287694 ..	Insulator, Electrode	1

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

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.

 Hardware is common and not available unless listed.



805587-A

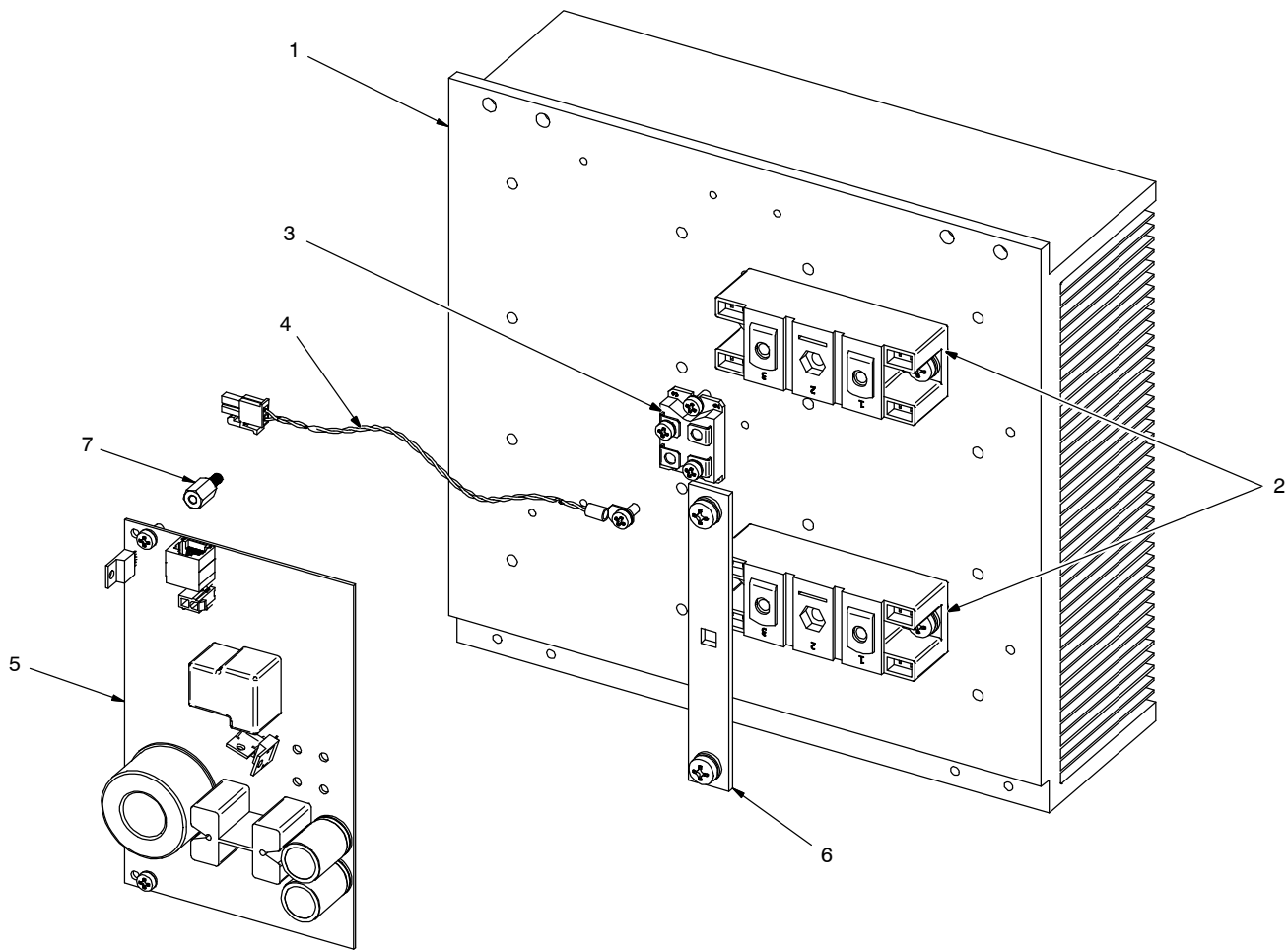
Figure 1-7. Heatsink, Secondary

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274754 Figure 1-7. Heatsink, Secondary				
.. 1	PC5	273440 ..	Circuit Card Assy, Secondary	1
.....	RC331	131054 ..	Housing Rcpt+Skts, (Service Kit)	1
.. 2		213517 ..	Bus Bar, Output	2
.. 3		274084 ..	Bus Bar, Positive	1
.. 4	PM21-23 & PM26-28 ..	213522 ..	Kit, IGBT (Consists Of 3 IGBTs)	2
.. 5 ..	D21,D22 ..	213521 ..	Kit, Ultra Fast Diode	2
.. 6	RT21	213353 ..	Thermistor, Ntc 30k Ohm @ 25 Deg C 8in. Lead	1
.. 7		274755 ..	Heatsink, Power Module	1
.. 8	D23	201530 ..	Kit, Diode Fast Recovery Bridge	1
.. 9		274085 ..	Bus Bar, Negative	1
.. 10	PM25	259420 ..	Kit, IGBT	1
.. 11		280831 ..	Spacer, PWB	2
.. 12		274924 ..	Stand-Off, M4 x 0.7 x 30mm	8
.. 13		276732 ..	Stand-Off, M4 x 0.7 x 12mm	2

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

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.

☞ Hardware is common and not available unless listed.



805588-A

Figure 1-8. Heatsink, Secondary

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
275860 Figure 1-8. Heat Sink, Secondary				
1		274755	Heatsink, Power Module	1
2	D21, D22	213521	Kit, Ultra Fast Diode	2
3	D23	201530	Kit, Diode Power Module	1
4	RT21	213353	Thermistor, Ntc 30k Ohm @ 25 Deg C 8in. Lead	1
5	PC5	275540	Circuit Card Assy, Secondary	1
	RC331	131054	Housing Rcpt+Skts, (Service Kit)	1
6		213519	Bus Bar	1
7		276732	Standoff, M4 x 12mm	2

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

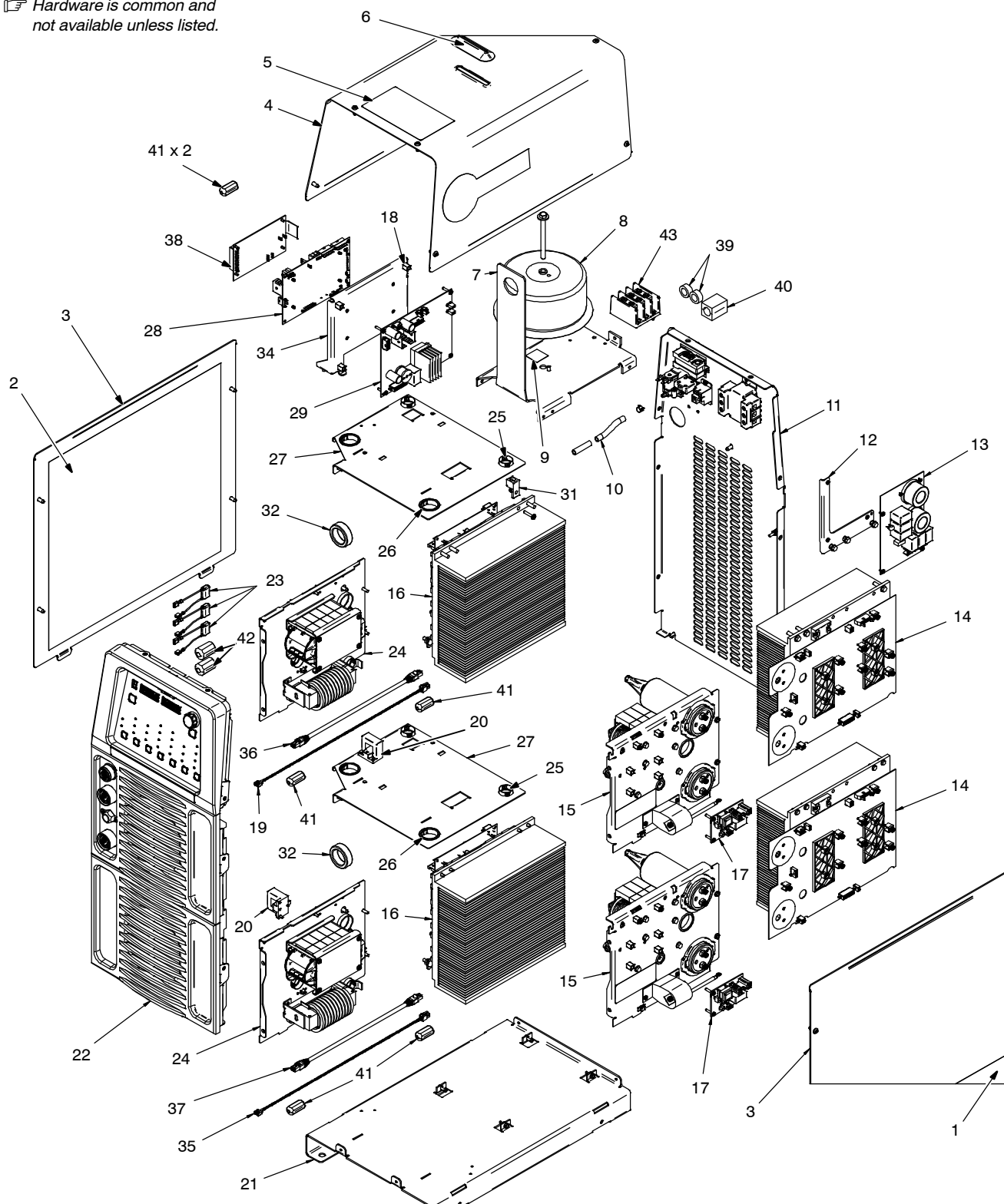
To maintain the factory original performance of your equipment, use only Manufacturer’s Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Notes

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SECTION 2 – DYNASTY/MAXSTAR 800 PARTS LIST FOR SERIAL NO. MH160285L AND FOLLOWING

 Hardware is common and
not available unless listed.



Dynasty 800 illustrated

805602-A

Figure 2-1. Main Assembly

Eff w/ Serial No. MH160285L And Following

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
Figure 2-1. Main Assembly				
1		275867	Label, Side Maxstar 800	2
1		275868	Label, Side Dynasty 800	2
2		213071	Insulator, Side	2
3		213057	Panel, Side	2
4		+213056	Wrapper, Top	1
5		280528	Label, Warning General Precautionary (En/Fr/Sp)	1
5		179310	Label, General Precautionary Wordless Intl Small	1
6		213073	Seal, Lift Eye	1
7		213058	Lift Eye	1
8	T3	275365	XFMR, 665 115/24 18/18 220 (Prior to MK350059L)	1
8	T3	280906	XFMR, Control Toroidal 665 VAC PRI 660VA 60Hz (Eff/w MK350059L)	1
9		279333	Label, Terminal Block Primary	1
9		155436	Label, Ground/Protective Earth (CE)	1
10		254015	Hose, Nprn Brd No 1 x .250 Id x 23.000	1
11	Figure 2-3		Panel, Rear w/Components	1
12		277569	Bracket, Filter Board	1
13	PC10	279206	Circuit Card Assy, Filter (CE)	1
14	Figure 2-5		Heatsink, Primary Assy	1
15	Figure 2-4		Windtunnel, Right Hand w/Components	2
16	Figure 2-7		Heatsink, Secondary – Dynasty 800	2
16	Figure 2-8		Heatsink, Secondary – Maxstar 800	2
17	PC4	247046	Circuit Card Assy, HF	2
	PLG70	131204	Housing Rcpt+Skts, (Service Kit)	1
18		083147	Grommet, SCR No 8/10 Panel Hole .312 Sq .500 High	12
19		275299	Cable Assy, Hall Effect w/Plugs 19 in.	1
20	HD1, HD2	182918	Transducer, Current 400A Module Supply V +/- 15V	2
21		213055	Base	1
22	Figure 2-2		Panel, Front w/Cmpnts	1
		215120	Connection Kit, Dinse	1
23	C22,C24,C25,C26	221707	Capacitor Assy (CE)	3
24	Figure 2-6		Windtunnel, Left Hand w/Components	2
25		057357	Bushing, Snap-in Nyl .937 Id x 1.125 Mtg Hole	4
26		170647	Bushing, Snap-in Nyl 1.312 Id x 1.500 Mtg Hole	4
27		274961	Panel, Top Windtunnel	2
28	PC2	279663	Circuit Card Assy, Process Control	1
	PLG1	115093	Housing Rcpt+Skts, (Service Kit)	1
	PLG40	115094	Housing Plug+Skts, (Service Kit)	1
	PLG50	201665	Housing Plug+Skts, (Service Kit)	1
	PLG60	131055	Housing Rcpt+Skts, (Service Kit)	1
	PLG80	131204	Housing Plug+Skts, (Service Kit)	1
	PLG90	131204	Housing Plug+Skts, (Service Kit)	1
	PLG100	131056	Housing Plug+Skts, (Service Kit)	1
	PLG140	131056	Housing Rcpt+Skts, (Service Kit)	1
	PLG200	131056	Housing Plug+Skts, (Service Kit)	1
29	PC7	280555	Circuit Card Assy, Aux Power w/Program	1
	PLG150	130203	Housing Rcpt+Skts, (Service Kit)	1
	PLG222	131204	Housing Plug+Skts, (Service Kit)	1
	PLG3	158719	Housing Plug+Skts, (Service Kit)	1
	PLG4	158719	Housing Rcpt+Skts, (Service Kit)	1
	PLG5	131054	Housing Plug+Skts, (Service Kit)	1
	PLG7	131052	Housing Plug+Skts, (Service Kit)	1
	PLG9	115091	Housing Plug+Skts, (Service Kit)	1
	PLG10	131054	Housing Rcpt+Skts, (Service Kit)	1
	PLG11	115093	Housing Plug+Skts, (Service Kit)	1
30	C23, C28	233133	Capacitor Assy (Maxstar CE)	2
31		213248	Lug, Univ w/Screw 2/0-14 Wire .266 Std	1
32	L45,L46	131447	Core, Toroidal 1.332 Id x 1.932 Od x .625 Thk (CE) (Dynasty CE)	2
33		235496	Cable Tie, 0.06-2.000 Bundle Dia Tree Style Push Mount	
			Mtg Hole Dia .246-.276 (CE)	1

Eff w/ Serial No. MH160285L And Following

.. 34 ..	275176 ..	Bracket, Mtg Circuit Card Assy ..	1
Item	Dia.	Part	
No.	Mkgs.	No.	Description
			Quantity

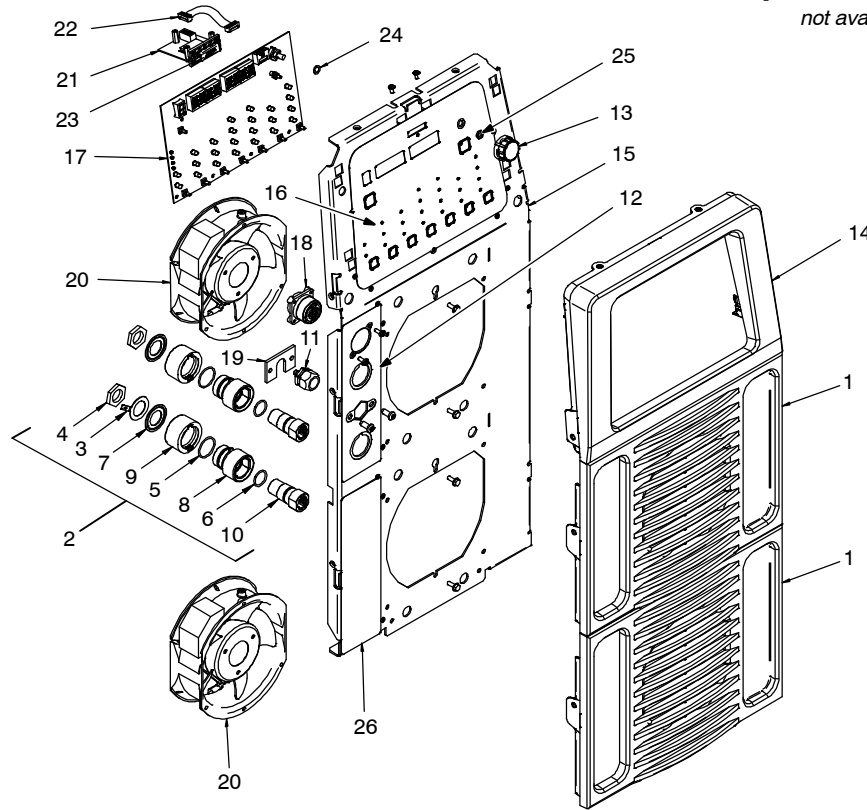
Figure 2-1. Main Assembly

.. 35 ..	276821 ..	Cable Assy, Hall Effect w/Plugs 28 in.	1
.. 36 ..	275127 ..	Cable, Ethernet 12 in. Black	1
.. 37 ..	276416 ..	Cable, Ethernet 24 in. Blue	1
.....	278161 ..	Kit, Automation Interface Connection (Includes) (Not Shown)	1
.. 38 ..	PC13 ..	273436 Circuit Card Assy, Automation	1
.....	PLG210 ..	167333 .. Housing Plug+Skts, (Service Kit)	1
.....	278321	Receptacle, w/Leads & Plug 28 Pin	1
.....	218715	Conn, Circ Ms/Cpc 28 Pin Size 17 Plug Cable Push-in	1
.....	218713	Conn, Circ Ms/Amp Pin Push-in 20-24Ga Solder Cup	28
.....	079739	Conn, Circ Cpc Clamp Str Rlf Size 17-20 .703 Od	1
.. 39 ..	L42,L43 ..	268209 Core, Ferrite 25.4mm Od x 15.5mm Id x 12.7mm Lg (CE)	2
.. 40 ..	L40 ..	278026 Core, Ferrite Round Cable .740 Id Clamp-On Emi Supp (CE)	1
.. 41 ..	L31,L32,L35 ..		
.....	L36,L37,L38 ..	249747 Core, Ferrite Round Cable .201 Id Clamp-On Emi Supp	6
.. 42 ..	L33,L34 ..	265451 Core, Ferrite Round Cable .400 Id Clamp-On Emi Supp	2
.. 43 ..	TE1 ..	198951 Block, Terminal 3 Pole (Non-CE Models Only)	1

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

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Hardware is common and not available unless listed.



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Figure 2-2. Panel, Front w/Components

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
273676 Figure 2-2. Panel, Front w/Components				
.. 1		213053 ..	Panel, Louver Cover	2
.. 2		279662 ..	Rcpt Assy, Tw Lk Insul Fem (Copper) (Includes)	2
.. 3		178548	Terminal, Connector Friction	1
.. 4		185717	Nut, M20-1.5 1.00 Hex x .19H Brs Locking	1
.. 5		185718	O-Ring, 0.989 Id x 0.070 H	1
.. 6		186228	O-Ring, 0.739 Id x 0.070 H	1
.. 7		229338	Washer, Domed Load .812 Id x 1.450 Od x .070 Thk	1
.. 8		279662	Insulator, Bulkhead Front	1
.. 9		274935	Insulator, Bulkhead Rear	1
.. 10		276755	Receptacle, Twist Lock Brass Power (Female)	1
.. 11		231279	Fitting, Gas-Clip Mount	1
.. 12		233115 ..	Plate, Indicator Front - Dynasty	1
.. 12		233116 ..	Plate, Indicator Front - Maxstar	1
.. 13		228546 ..	Knob, Pointer 1.250 Dia x 6mm Id w/Spring	1
.. 14		213051 ..	Panel, Front Top	1
.. 15		273672 ..	Panel, Front	1
.. 16		273670 ..	Nameplate, Dynasty	1
.. 16		275861 ..	Nameplate, Maxstar	1
.. 17	PC3	279664 ..	Circuit Card Assy, Interface w/Program	1
.. 18	RC1	275258 ..	Receptacle, w/Leads & Plug 14 Pin	1
.. 19		230155 ..	Bracket, Valve Mtg	1
.. 20	FMT, FMB	213072 ..	Fan, Muffin	2
.. 21	PC9	274828 ..	Circuit Card Assy, SD	1
.. 22		254529 ..	Cable, Ribbon	1
.. 23		254052 ..	Cover, SD Card	1
.. 24		254153 ..	Washer, Flat .281 Id x 0.500 Od x .031 T Stl Pld	1
.. 25		254151 ..	Nut, M07-.75 10mm Hex 2mm H Stl Pld	1
.. 26		216859 ..	Plate, Front Panel	1

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

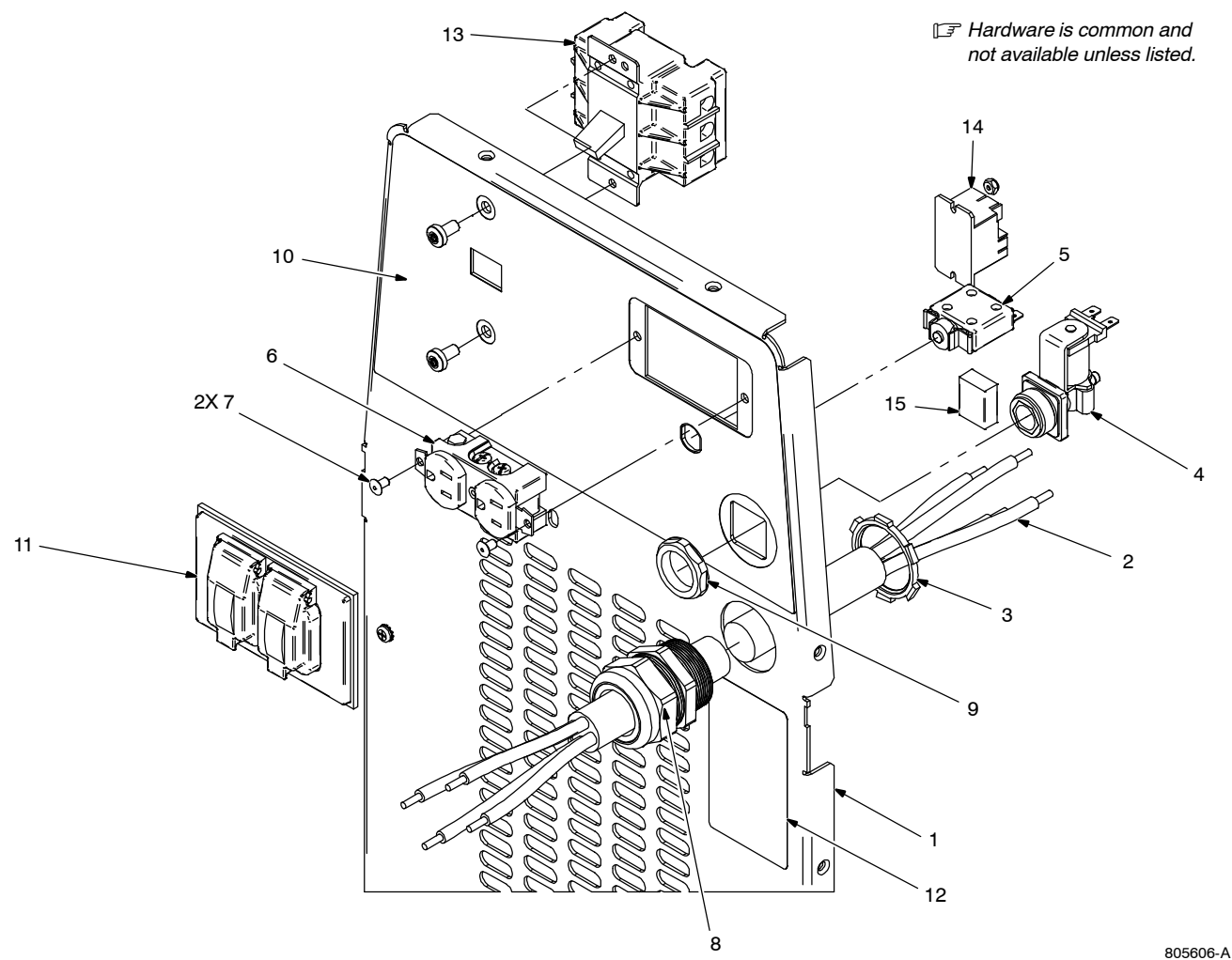


Figure 2-3. Panel, Rear w/Components

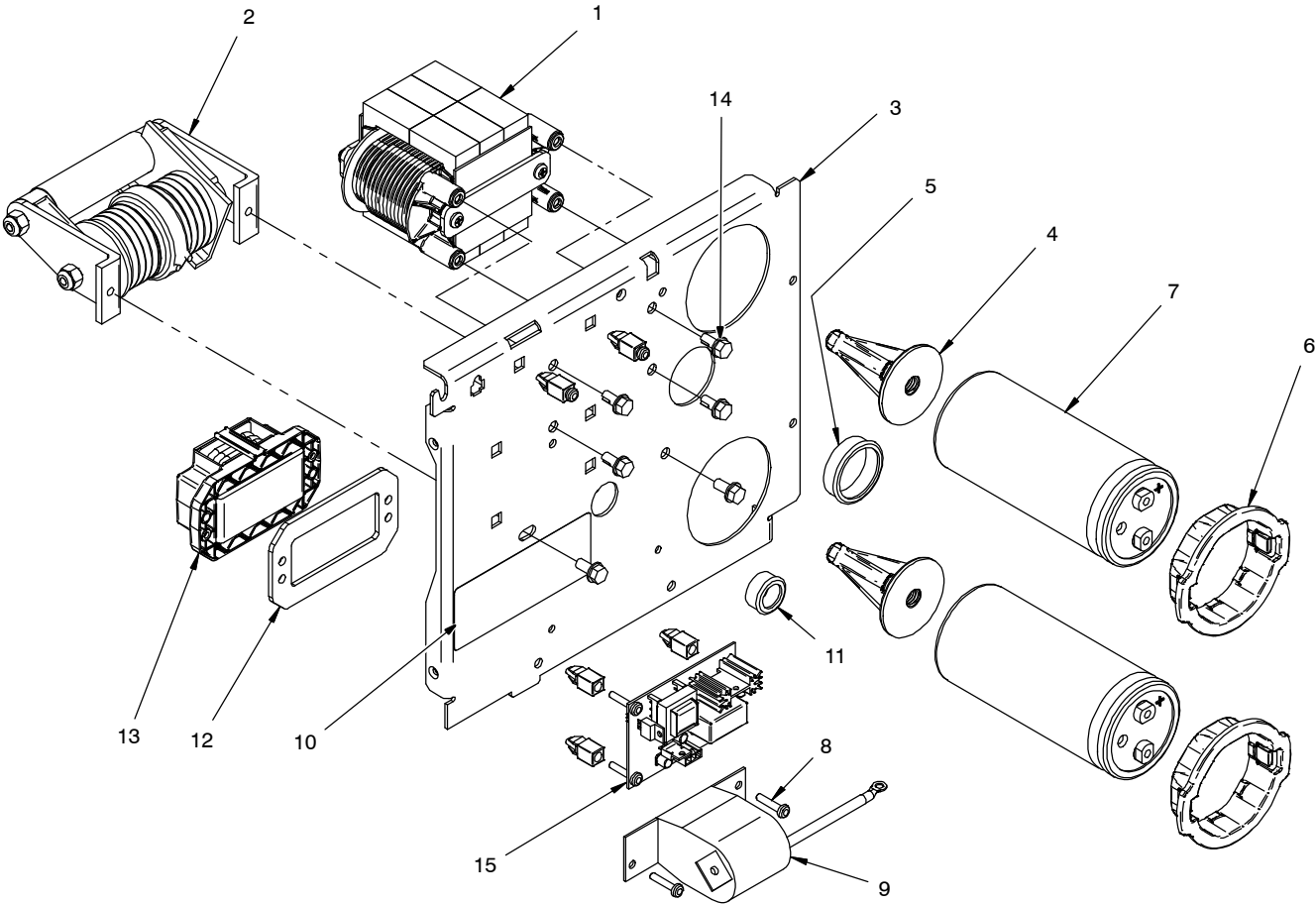
Item No.	Dia. Mkgs.	Part No.	Description	Quantity
275335 Figure 2-3. Panel, Rear w/Components				
.. 1		+275336 ..	Panel, Rear (Order By Stock And Serial Number)	1
.. 2		216880 ..	Cable, Power (CE)	1
.. 3		274562 ..	Nut, Conduit 1.250–11.5 Npt Pld 2.062 Od x .17 Thk (CE)	1
.. 4	GS1	238805 ..	Valve, 24 VDC 2-way, 125 PSI Custom Port .054 Orf w/Fr	1
.. 5	SP1	183492 ..	Supplementary Protector, Man Reset 1P 10A 250V Fric (Eff/w MK350059L)	1
... 5	SP1	202711 ..	Supplementary Protector, Man Reset 1P 7A 250V Fric (Eff/w MK350059L)	1
.. 6	RC2	189033 ..	Rcpt, Str Dx Gnd 2P3W 15A 125V (Gray)	1
.. 7		127013 ..	Rivet, Al .187 Dia x .063–.125 Grip Blk Blind Dome	2
.. 8		263090 ..	Bushing, Strain Relief .490/.785 Id x 1.326 Mtg Hole (CE)	1
.. 9		137761 ..	Nut, 750 Npt 1.31Hex .27H Nyl Blk	1
.. 10		277568 ..	Nameplate, Ident Rear	1
.. 11		217297 ..	Cover, Receptacle Weatherproof Duplex Rcpt	1
.. 12		279484 ..	Label, Warning Incorrect Connections	1
.. 12		219842 ..	Label, Warning Input Connections/Electric Shock (CE)	1
.. 13	S1	246846 ..	Switch, Tgl Assy (Includes)	1
... 13		249816 ..	Switch, Tgl 3 Pst 85A 600 VAC Scr Term Wide Tgl	1
... 13	S1	244920 ..	Switch, Tgl 3 Pst 40A 600 VAC Scr Term Wide Tgl (CE)	1
.. 14	CR1	206258 ..	Relay, Encl 24 VDC Spst 30A/240 VAC 4 Pin Flange Mtg	1
.. 15		278019 ..	Gasket, Emi 10mm x 20mm x 25.4mm	1

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

Eff w/ Serial No. MH160285L And Following

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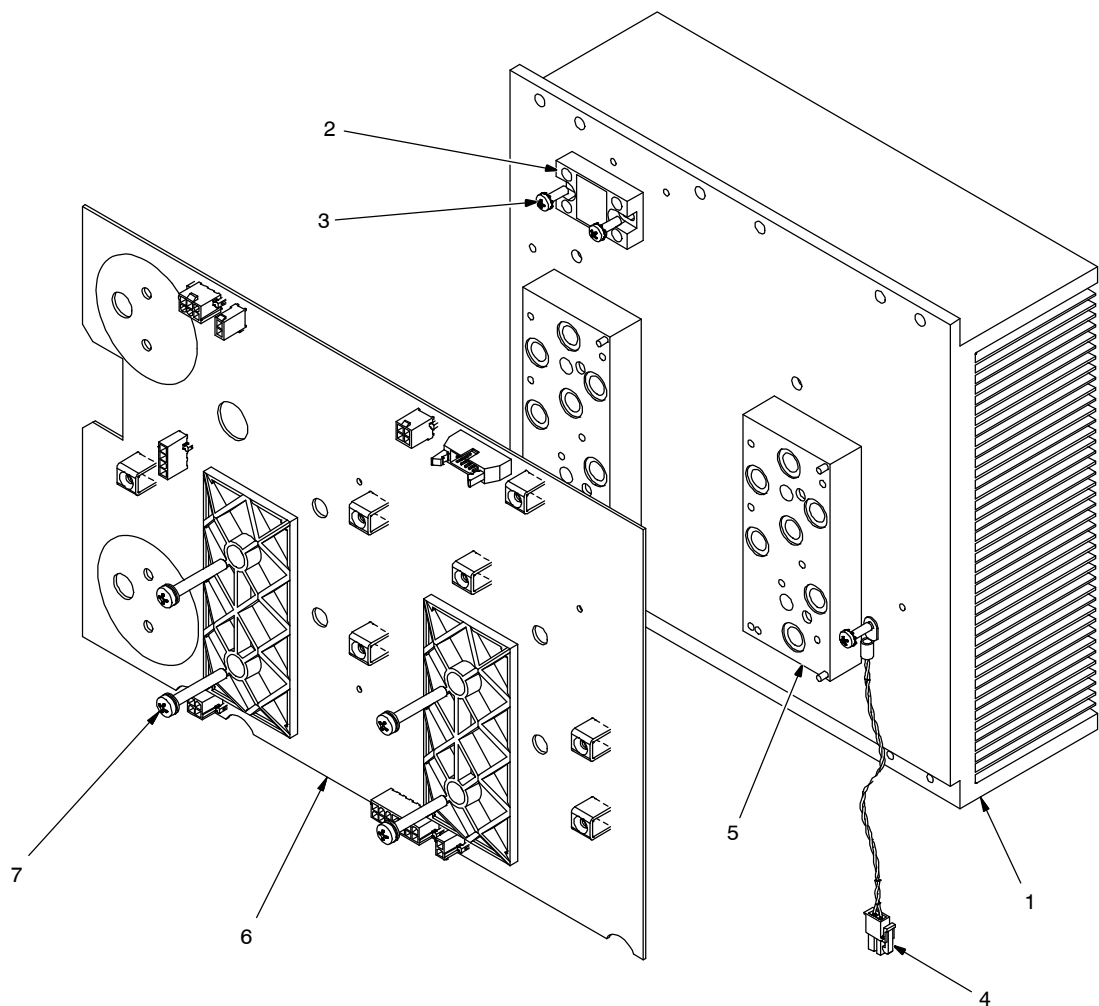
Figure 2-4. Wind Tunnel, Right Hand w/Components

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274987 Figure 2-4. Wind Tunnel, Right Hand w/Components				
.. 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 20 Pan Hd-Phl Stl Pld Pt Thread Forming	2
.. 9	.. C11	.. 216700	.. Capacitor, Polyp Met Film 16. UF 400 VAC 10%	1
.. 10	..	.. 218004	.. Label, Warning Electric Shock/Exploding Parts	1
.. 10	..	.. 219844	.. Label, Warning Electric Shock/Exploding Parts-Wdles (CE)	1
.. 11	..	.. 010493	.. Bushing, Snap-in Nyl .625 Id x .875 Mtg Hole	1
.. 12	..	.. 218566	.. Gasket, Inductor Mounting	1
.. 13	.. L12	.. 213348	.. Coil, Inductor (Pre-Regulator)	1
.. 14	..	.. 233913	.. Screw, 250-14 x .50 Hexwhd T-25 T/C SC ZC	6
.. 15	.. PC4	.. 247046	.. Circuit Card, HF	1

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

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Figure 2-5. Heatsink, Primary Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274988 Figure 2-5. Heatsink, Primary Assembly				
.. 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 8in. Lead	1
.. 5 ...	MOD1,2	261556 ..	Kit, Input/Pre-Regulator And Inverter Module	1
.. 6	PC1	276658 ..	Circuit Card Assy, Power Interconnect	1
.....	PLG101,102	131054 ..	Housing Plug+Skts, (Service Kit)	1
.....	PLG33	158719 ..	Housing Rcpt+Skts, (Service Kit)	1
.....	PLG400,401	115093 ..	Housing Plug+Skts, (Service Kit)	1
.....	PLG6,66	131056 ..	Housing Rcpt+Skts, (Service Kit)	1
.....	PLG71,77	115094 ..	Housing Rcpt+Skts, (Service Kit)	1
.. 7		229334 ..	Screw, M5 - .8 x 35 Pan Hd-Phl Stl Pld Sems	4

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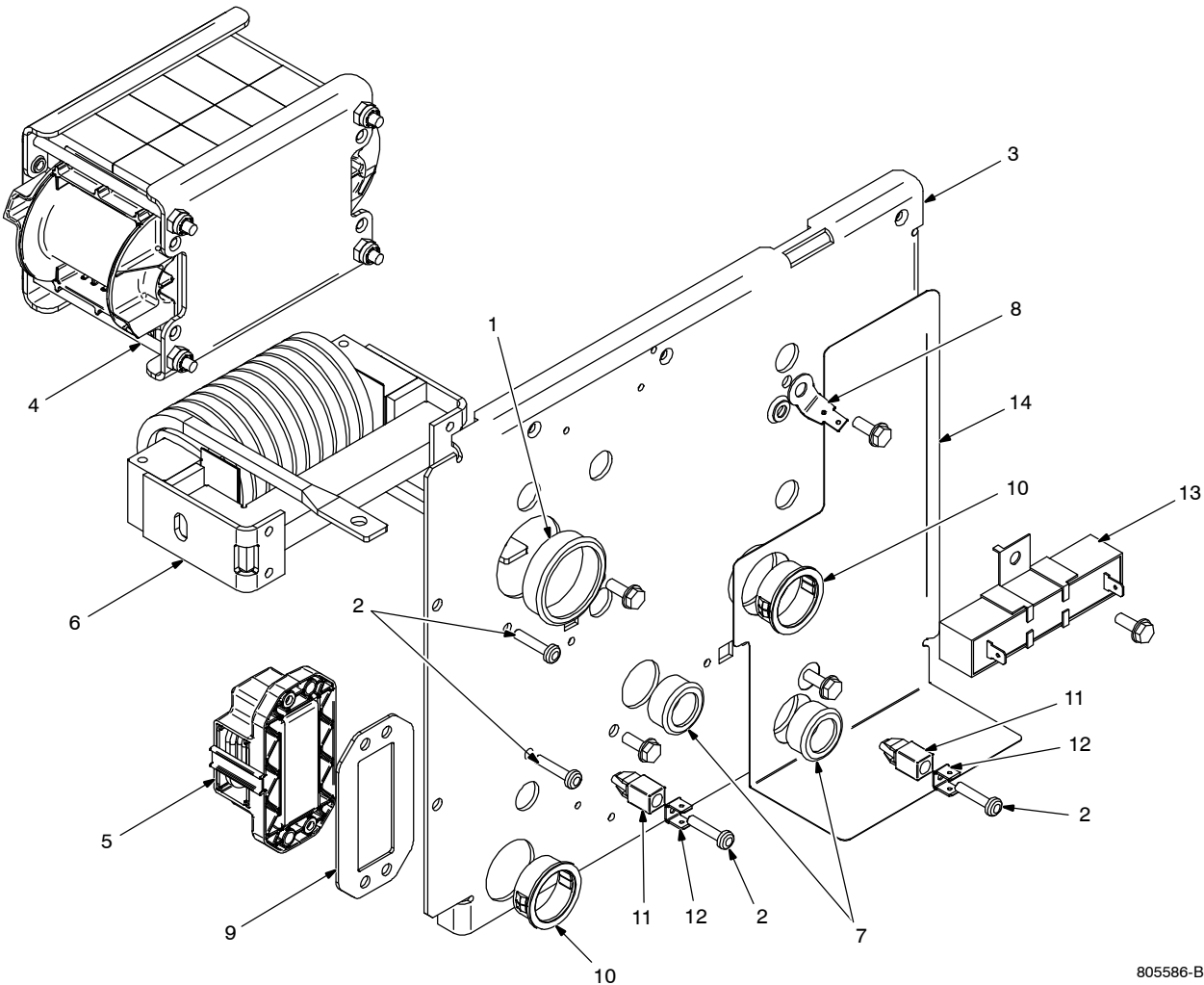


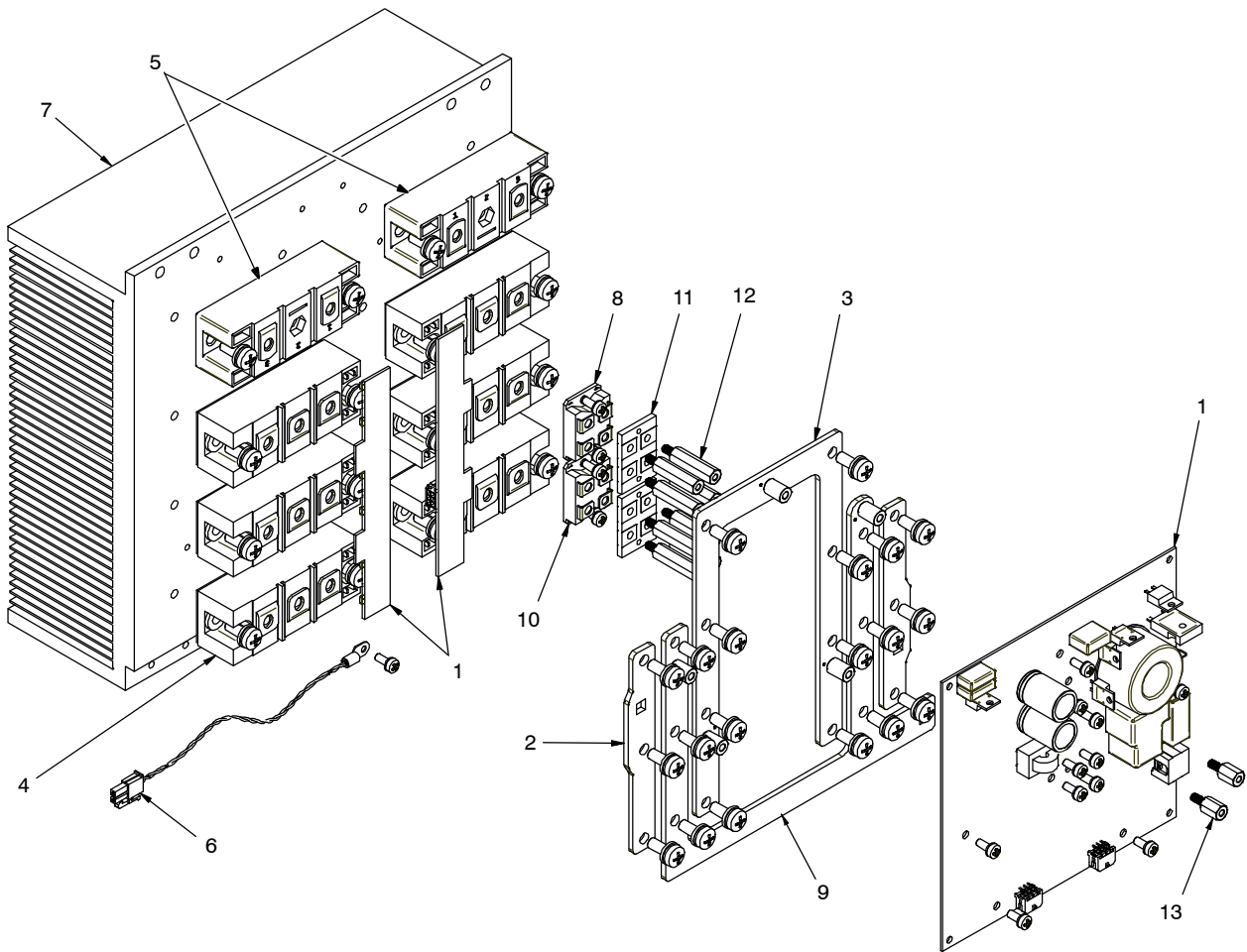
Figure 2-6. Wind Tunnel, Left Hand w/Components

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274756 Figure 2-6. Wind Tunnel, Left Hand w/Components				
.. 1		170647 ..	Bushing, Snap-in Nyl 1.312 Id x 1.500 Mtg Hole	1
.. 2		207418 ..	Screw, K40 x 12 Pan Hd-Phl Stl Pld Pt Thread Forming	2
.. 3		274960 ..	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	1
.. 7		010493 ..	Bushing, Snap-in Nyl .625 Id x .875 Mtg Hole	2
.. 8		231208 ..	Connector, Rectifier	1
.. 9		227746 ..	Gasket, Inductor Mounting E55 Ferrite Core	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	R21	275003 ..	Resistor, WW Fxd 50 W 10 Ohm 5% w/Ter (Dynasty Only)	1
.. 14		287694 ..	Insulator, Electrode	1

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

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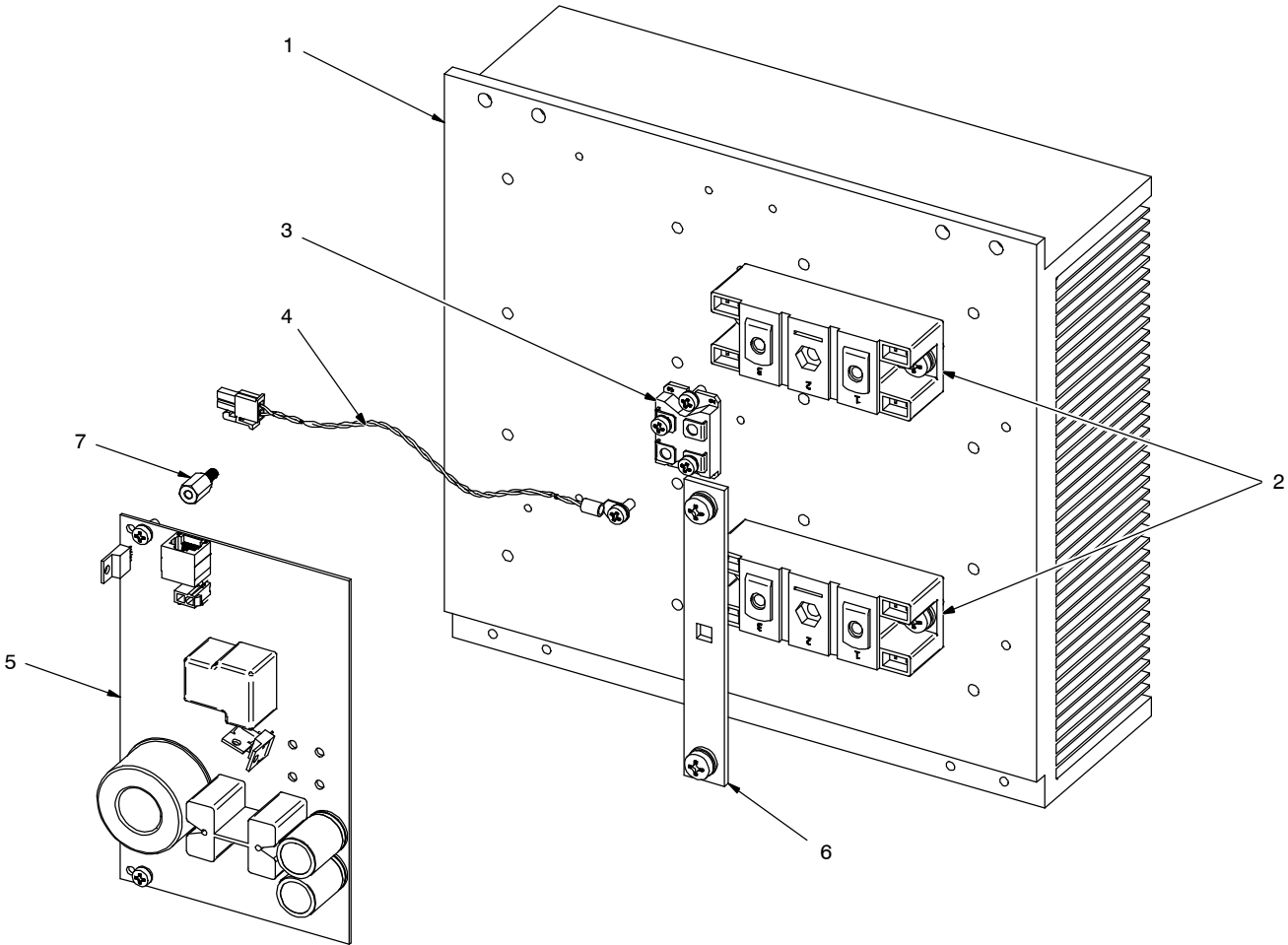
Figure 2-7. Heatsink, Secondary – Dynasty 800

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
274754 Figure 2-7. Heatsink, Secondary – Dynasty 800				
.. 1	PC5	273440 ..	Circuit Card Assy, Secondary	1
.....	RC331,333 ..	131054 ..	Housing Rcpt+Skts, (Service Kit)	1
.. 2		213517 ..	Bus Bar, Output	2
.. 3		274084 ..	Bus Bar, Positive	1
.. 4	PM21-23 & PM26-28	213522 ..	Kit, IGBT (Consists Of 3 IGBTs)	2
.. 5 ..	D21,D22 ..	213521 ..	Kit, Ultra Fast Diode	2
.. 6	RT21	213353 ..	Thermistor, Ntc 30k Ohm @ 25 Deg C 8in. Lead	1
.. 7		274755 ..	Heatsink, Power Module	1
.. 8	D23	201530 ..	Kit, Diode Fast Recovery Bridge	1
.. 9		274085 ..	Bus Bar, Negative	1
.. 10	PM25	259420 ..	Kit, IGBT	1
.. 11		250831 ..	Spacer, PWB	2
.. 12		274924 ..	Stand-Off, M4 x 0.7 x 30mm	8
.. 13		276732 ..	Stand-Off, M4 x 0.7 x 12mm	2

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

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Figure 2-8. Heatsink, Secondary – Maxstar 800

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
275860 Figure 2-8. Heatsink, Secondary – Maxstar 800				
1		274755	Heatsink, Power Module	1
2	D21, D22	213521	Kit, Ultra Fast Diode	2
3	D23	201530	Kit, Diode Power Module	1
4	RT21	213353	Thermistor, Ntc 30K Ohm @ 25 Deg C 8in. Lead	1
5	PC5	275540	Circuit Card Assy, Secondary	1
	RC331,333	131054	Housing Rcpt+Smts, (Service Kit)	1
6		213519	Bus Bar	1
7		276732	Standoff, M4 x 12mm	2

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