



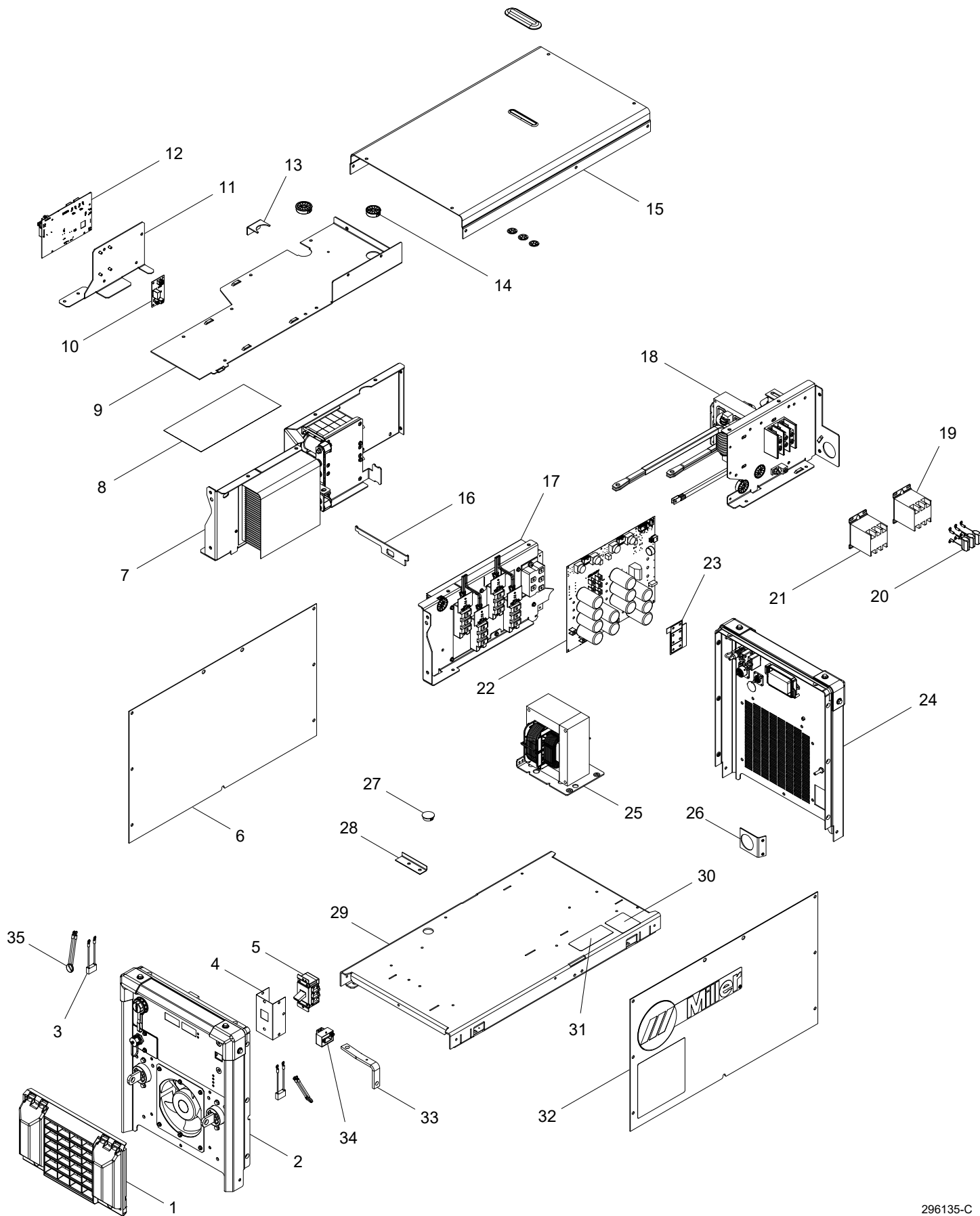
PM- 294494 F

Auto Deltaweld 500 And 600 (208-230 and 460 Volt Model)

Effective with Serial Number
NE221022U - ZZ222222R



PARTS MANUAL



Main Assembly

296135-C

Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		278280	↓ Cover Assy, Louver Fan/Stud	1
		278281	→ Box, Louver Fan	1
		278282	→ Cover, Output Stud	2
		278283	→ Pin, Hinge	2
2		Front Panel Assembly (See following for subassembly information)		1
3	C3, 4	267745	Capacitor Assy	2
4		176226	Insulator, Switch Power	1
5	S1	244920	Switch, Tgl 3Pst 40A 600 Vac Scr Term Wide Tgl	1
6		295590	Panel, Side Lh	1
		234534	Label, Miller 12.984 x 5.375 Horizontal	2
		259270	Nut, 250-20 Insert x 165 Grip	2
7		Windtunnel, LH (See following for subassembly information)		1
8		285985	Insulator, Windtunnel Cover/Output Inductor Lead	1
9		282541	Cover, Windtunnel	1
10	PC14	294174	Circuit Card Assy, Touch Sense Auto Deltaweld	1
11		286114	Bracket, Mtg Circuit Card Assy	1
12	PC11	293553	Circuit Card Assy, Aim w/Pgrm Auto Deltaweld	1
	PLG31,72	286184	Plugs, w/Lead	1
		287163	Cable, Ethernet Cat6 Stp Rj45 24.000 in Lg (White)	2
13		285108	Plate, Cover XFMR Leads	1
14		179276	Bushing, Snap-In Nyl 1.000 Id x 1.375 Mtg Hole Cent	1
15		296137	↓ Cover, Top w/Components DW 500A/600A	1
		294577	→ Blank, Lift Eye Slot.	1
		049399	→ Nut, .312-18 Push On .63d .07H Stl	3
16		285567	Baffle, Upper	1
17		Windtunnel, RH Front (See following for subassembly information)		1
18		Windtunnel, RH Rear (See following for subassembly information)		1
19	W2	294719	Kit, Contactor w/Snubbers	1
20	SN1,SN2,SN3	294717	Snubber Assy	1
21	W1	180270	Contactor, Def Prp 40A 3P 24 Vac Coil w/Boxlug	1
22	PC2	291766	Kit, Circuit Card Assy, Power Interconnect 500A/600A	1
23	PC8	282246	Printed Wiring Bd, Blank Relink 500A/600A	1
24		Rear Panel Assembly (See following for subassembly information)		
25	T2	284810	XFMR, Control 230/460 Vac Pri	1
26		294079	Adapter, Cord Grip	1
27		047838	Blank, Snap-In Nyl 1.000 Mtg Hole Black	1
28		284814	Baffle, Lower	1
29		293646	↓ Base Assembly	1
30		286478	→ Label, Equipment Terminals	1
31		272700	→ Label, Warning Electric Shock/Exploding Parts (Sym)	1
32		295591	↓ Panel, Side Rh	1
		234534	→ Label, Miller 12.984 x 5.375 Horizontal	1
		274964	→ Label, Warning General Precautionary (En/Fr/Sp)	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.

Main Assembly

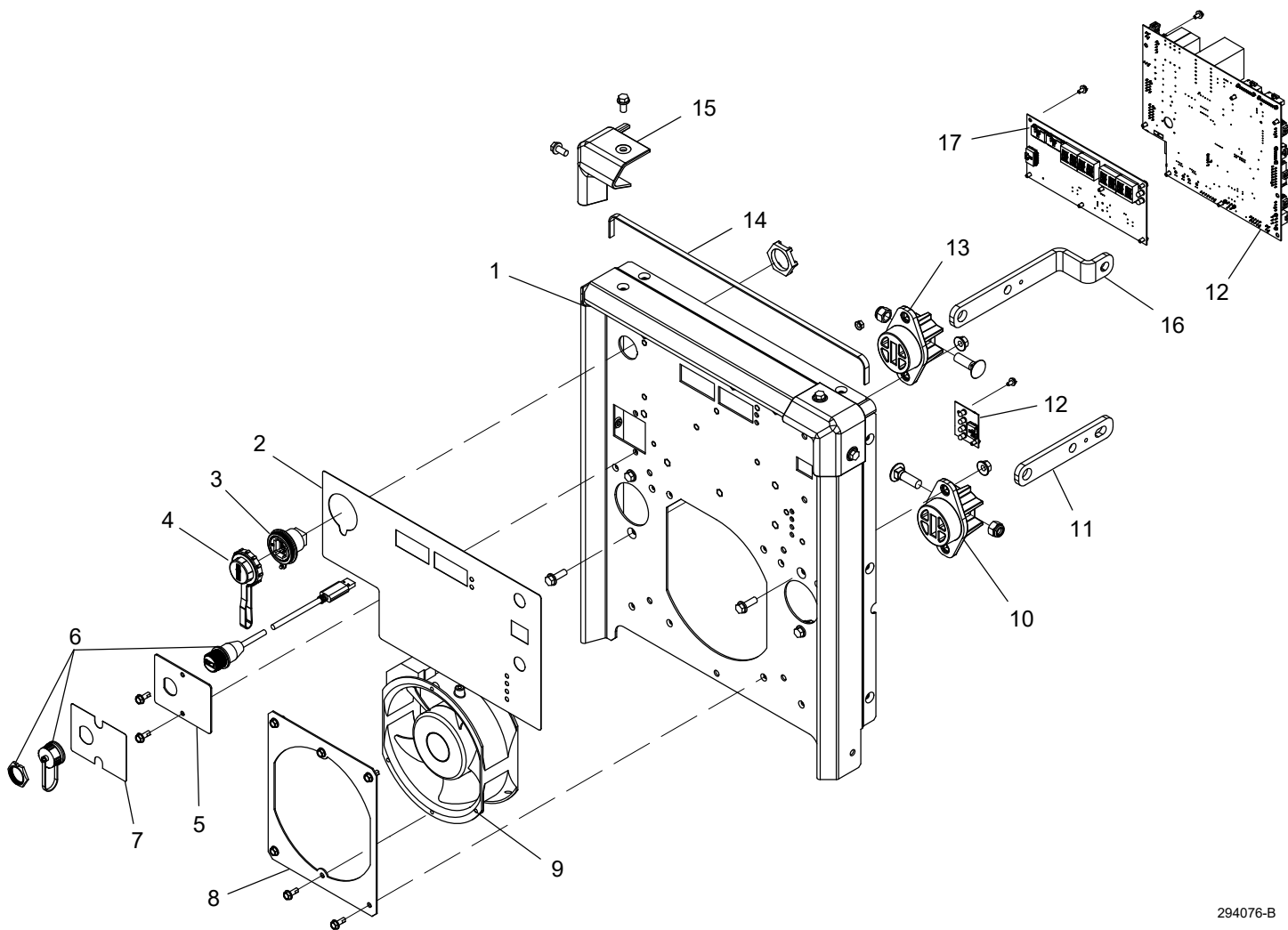
Item No.	Dia. Mkgs.	Part No.	Description	Qty
		259270	→ Nut, 250-20 Insert x 165 Grip	1
		178551	→ Insulator, Side (Not Shown)	1
33		284292	Bus Bar, Output Negative	1
34	HD1	278986	Transducer, Current 400A Module Supply V +/- 15V	1
35	VR1, VR2	270076	Varistor, w/Terminals	2
	PLG 27	285444	Plug, w/Leads (Voltage Feedback)	1
		285512	Lead List, Large	1
	PLG19, 24	279353	Plugs, w/Leads (I-Feedback)	1
	PLG8, RC59-60	280079	Plugs, w/Leads (RT2 and RT3)	1
	PLG 18, 47	285453	Plugs, w/Leads (PC1-PC2)	1
	PLG22	285431	Plug Assy, Elect (CT1/CT2)	1
	PLG21, 23, 55	280908	Cable, USB 2.0 Male A/Male B 3 Ft	1
	RC62	285427	↓ Harness, Wrg Primary	1
	S1	244920	→ Switch, Tgl 3Pst 40A 600 Vac Scr Term Wide Tgl (Shown as item 5)	1
	W1	180270	→ Contactor, Def Prp 40A 3P 24 Vac Coil w/Boxlug (Shown as item 25)	1
	W2	279767	→ Contactor, Def Prp 40A 3P 24 Vac Coil 1Nc 2No (Shown as item 22)	1
	PLG86	295236	→ Plugs, w/Leads Ui To Cntrl And Aim (8 Pin)	1
	PLG84, 87	294539	→ Plugs, w/Leads Cobot (Touch Sense Signal)	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.



294076-B

Front Panel Assembly

Front Panel Assembly

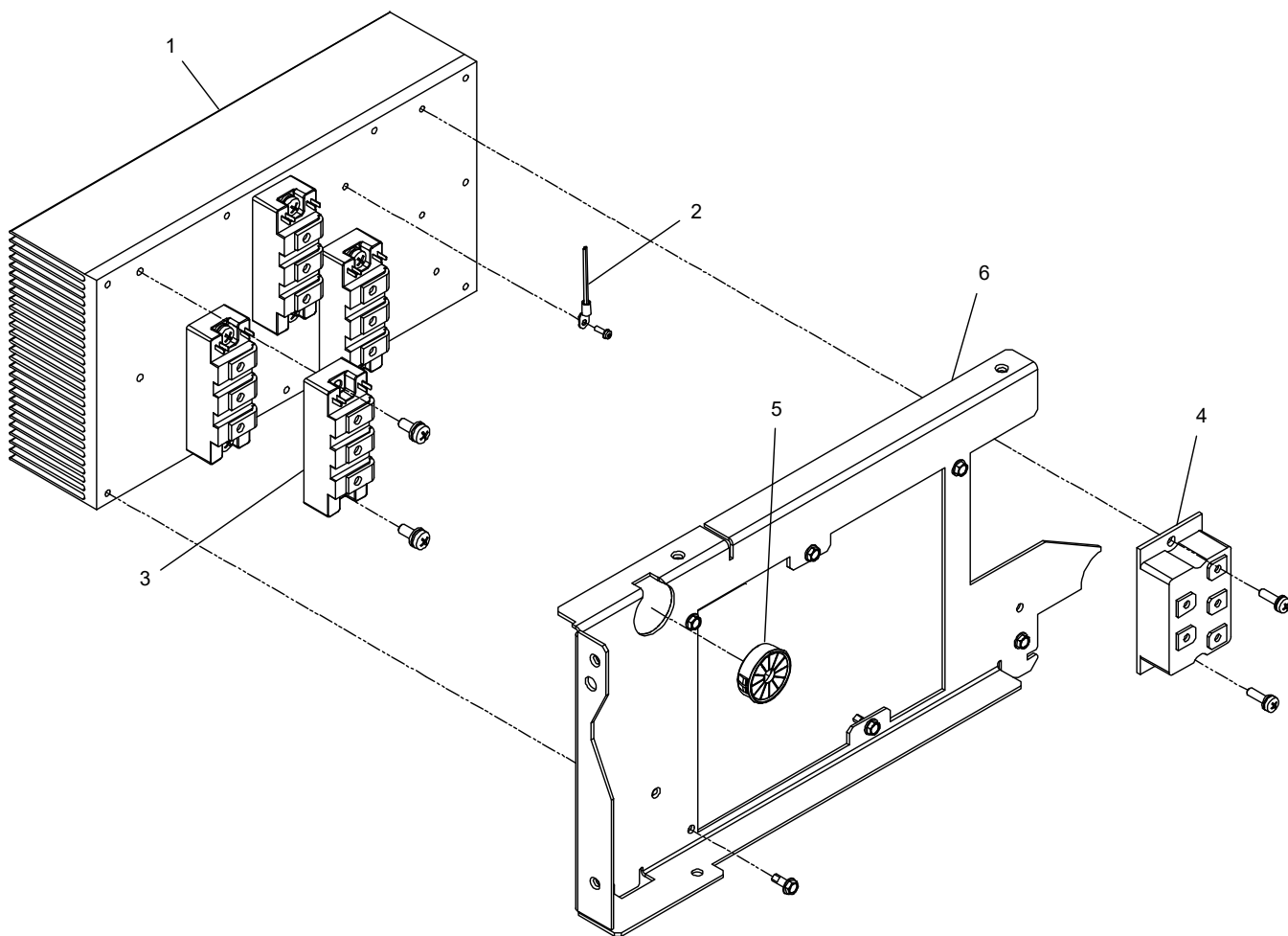
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		294071	Panel, Front w/Stand-Offs/Stud	1
2		294078	Label, Nameplate Miller Auto Deltaweld 500	1
2		401377	Label, Nameplate Miller Auto Deltaweld 600	1
3		281943	Conn, Ethernet RJ45 Rcpt Panel Mtg Sealed	1
4		244237	Dust Cap	1
5		297056	Plate, Front Panel USB Cover Blank	1
6		273211	Cable, USB 2.0 A-A Male 1Meter Panel-Mount IP-67	1
7		297057	Label, Nameplate USB Cover Blank	1
8		276855	Bracket, Mtg Fan	1
9		281995	Fan, Muffin 115V 60Hz 3400 Rpm 6.378 Mtg Holes TPA2	1
10		263560	Terminal, Pwr Output Black	1
11		279221	Bus Bar, Output	1
12	PC1	295161	Circuit Card Assy, Control w/Program	1
12	PC1	401168	Circuit Card Assy, Control w/Program ADW600	1
13		263559	Terminal, Pwr Output Red	1
14		283059	Weatherstripping, Adh Edpm .063 x .250 x 17.250	1
15		278284	Bracket, Corner Front and Back	2
16		276854	Bus Bar, Diode Output	1
17	PC6	294144	Circuit Card Assy, Front Panel Ui w/Program Auto Dw	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.



Windtunnel, RH Front

286754-A

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		283232	Heat Sink, Power Module	1
2	RT1	279338	Thermistor, NTC 30K Ohm @ 25 Deg C 8.00 in 2500V	1
3	PM1, 2, 3, 4	282285	Kit, IGBT Assy w/Circuit Card - 2 Mods Included	2
3	PM1, 2, 3, 4	295192	Kit, Transistor IGBT Module (Vishay) (Includes 2 Modules) (600A)	2
4	SR1	286964	Kit, Diode Power Module	1
5		179276	Bushing, Snap-In Nyl 1.000 Id x 1.375 Mtg Hole Cent	1
6		282540	Windtunnel, Rh Front	1
/	PLG50, 51, 56,	285500	Plug Assy, w/Leads (Gate)	2
/	& 57, 67, 68			

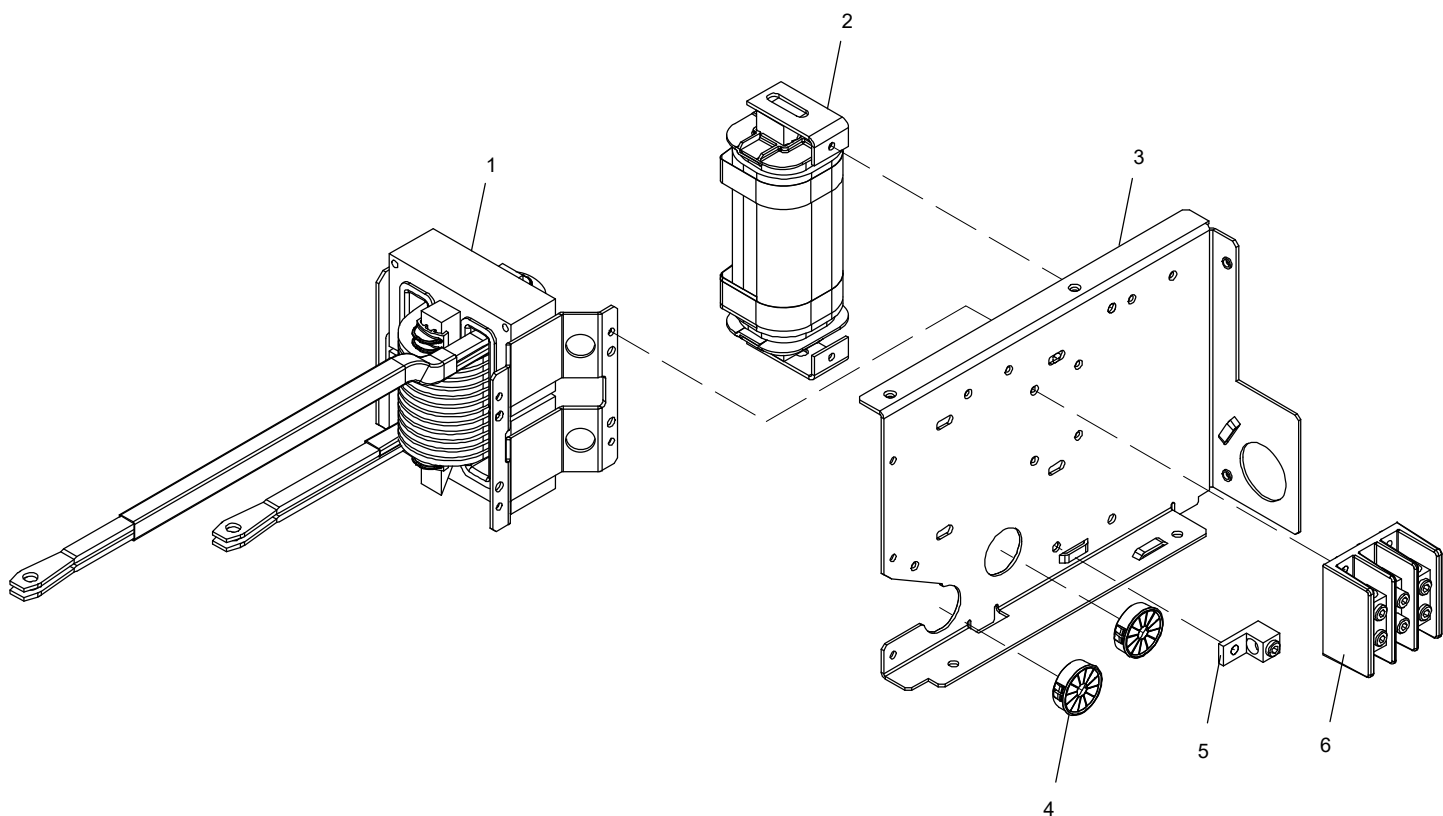
*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

+ 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.

Auto Deltaweld 500 And 600 (208-230/460 Volt Model)



286755-B

Windtunnel, RH Rear

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1	Z1	283200	Inductor, Output	1
2	L1	284591	Inductor, Input	1
3		284522	Windtunnel, Rh Rear	1
4		179276	Bushing, Snap-In Nyl 1.000 Id x 1.375 Mtg Hole Cent	2
5		148025	Lug, Univ w/Scr 600V 2/0-6 Wire .266 Stud	1
6	TE1	291807	Block, Terminal 3 Pole	1

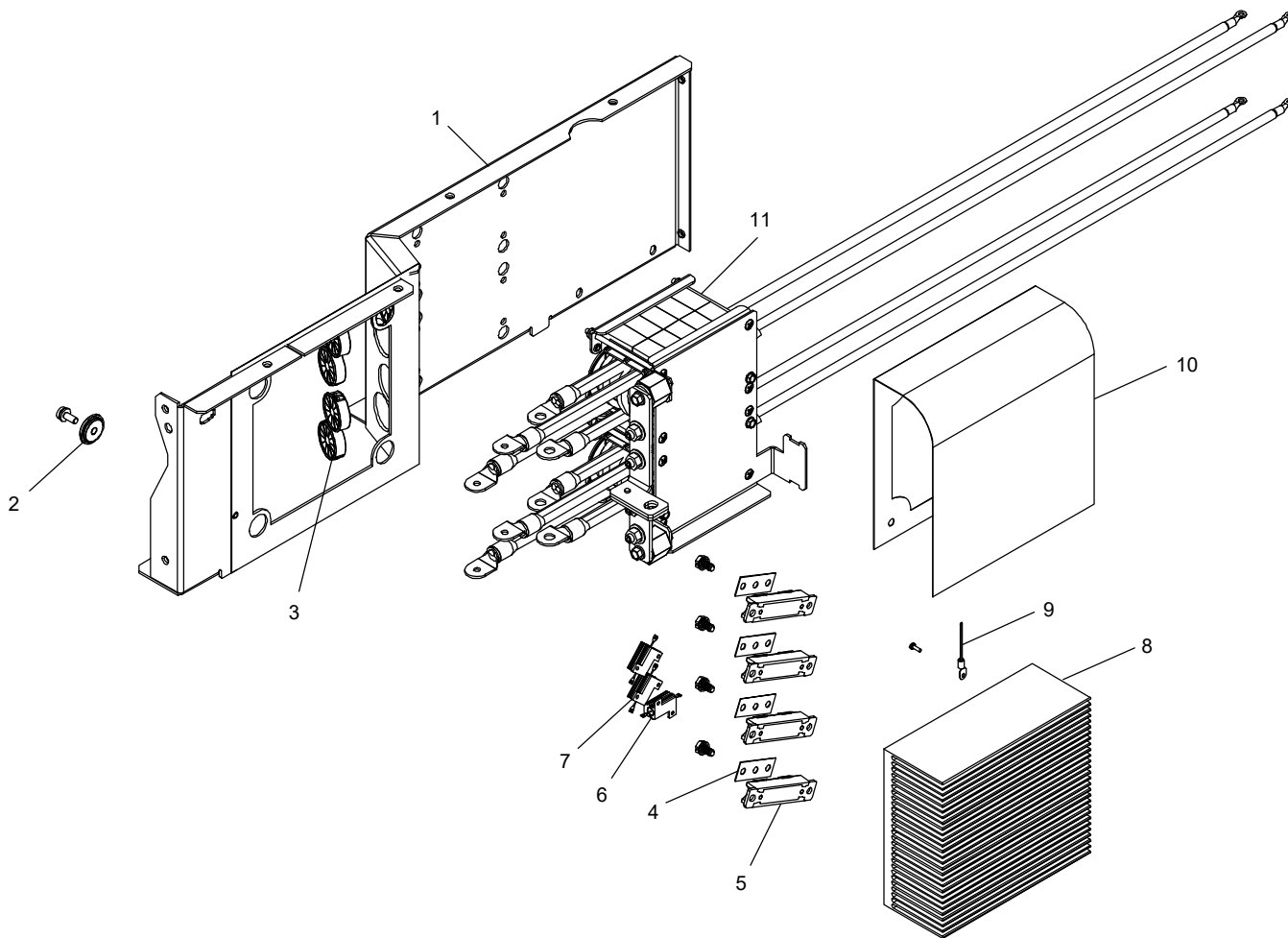
*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

+ 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.

Auto Deltaweld 500 And 600 (208-230/460 Volt Model)



286753-B

Windtunnel, LH

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		282539	Windtunnel, Lh	1
2		283111	Insulator, Screw	4
3		179276	Bushing, Snap-In Nyl 1.000 Id x 1.375 Mtg Hole Cent	4
4		286106	Bus Bar, Diode	2
5	D1, 2, 3, 4	269909	Kit, Diode Power Module (Vishay) (Contains 1 Module)	4
6	R3	285446	Resistor w/Leads	1
7	R1/C1, R2/C2	233052	Resistor/Capacitor	2
8		285393	Heat Sink, Diode Output	1
9	RT2	279338	Thermistor, NTC 30K Ohm @ 25 Deg C 8.00 in 2500V	1
10		285519	Insulator, Heat Sink	1
11	T1	285692	XFMR, HF Assy (230/460V)	1

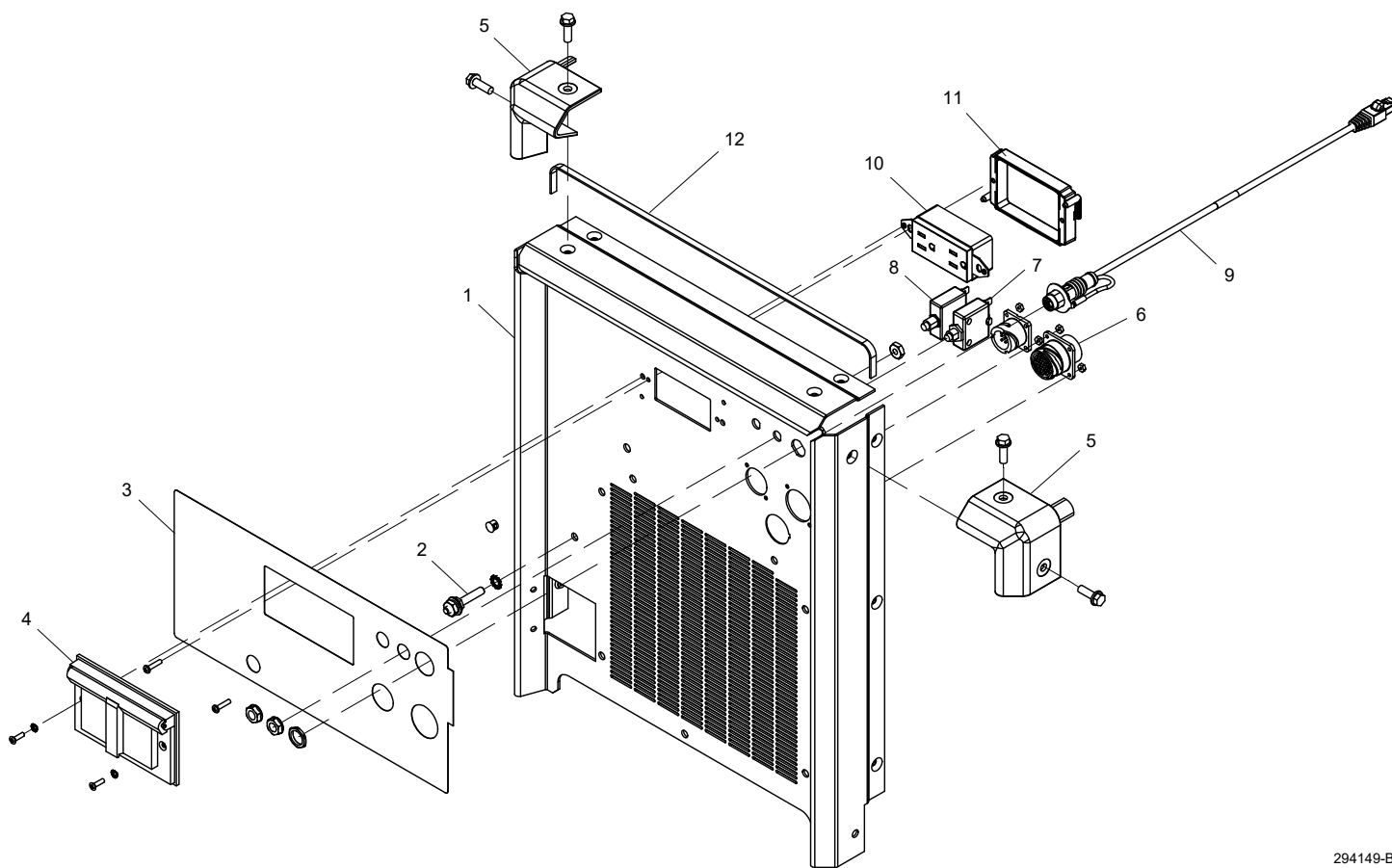
*Recommended Spare Parts ~ Optional ↓ Item includes other parts. → Item is part of a subassembly.

+ 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.

Auto Deltaweld 500 And 600 (208-230/460 Volt Model)



294149-B

Rear Panel Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		294150	Panel, Rear w/Inserts	1
2		197203	Grounding Stud Assy, Brass	1
3		294151	Label, Rear Auto Deltaweld	1
4		154022	Cover, Receptacle Duplex GFCI	1
5		278284	Bracket, Corner Front and Back	2
6		400397	Receptacle,w/Leads & Plug 19Pin Ethernet 29.000 In	1
7	CB2	083432	Supplementary Pro, Man Reset 1P 10A 250 Vac Frict	1
8	CB1	093995	Supplementary Pro, Man Reset 1P 15A 250 Vac Frict	1
9		294534	Cable Assy, Rj45 Male/M12 Female 3Ft Lg Shielded	1
10	RC1	174207	Rcpt, Str Dx Grd 2P3W 15A 125V *5-15R (RC1)	1
11		265204	Ring, Aux Power Receptacle	1
12		283059	Weatherstripping, Adh Edpm .063 x .250 x 17.250	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.

Auto Deltaweld 500 And 600 (208-230/460 Volt Model)