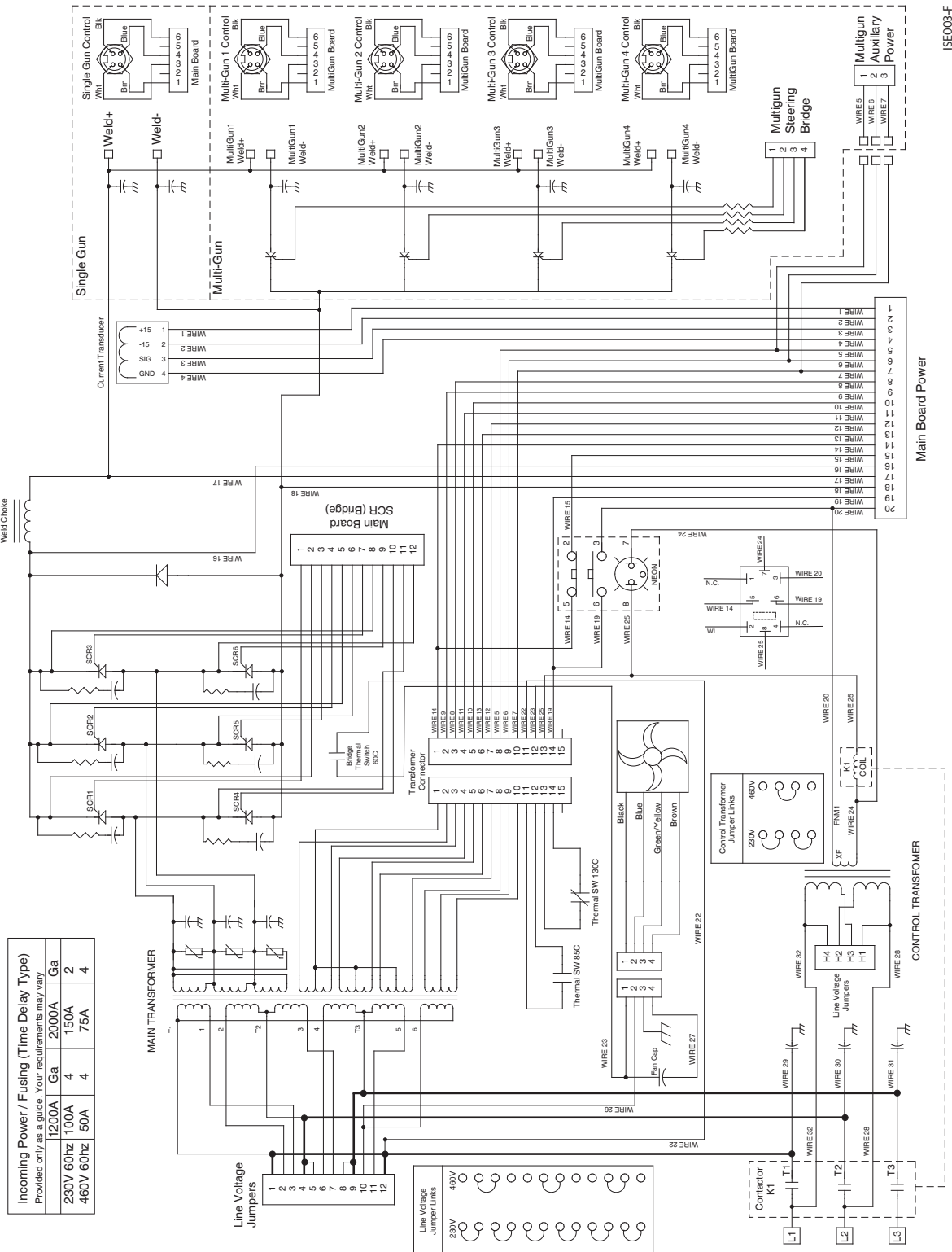


Section 8

Schematic Diagram

230/460 60 Hz Schematic

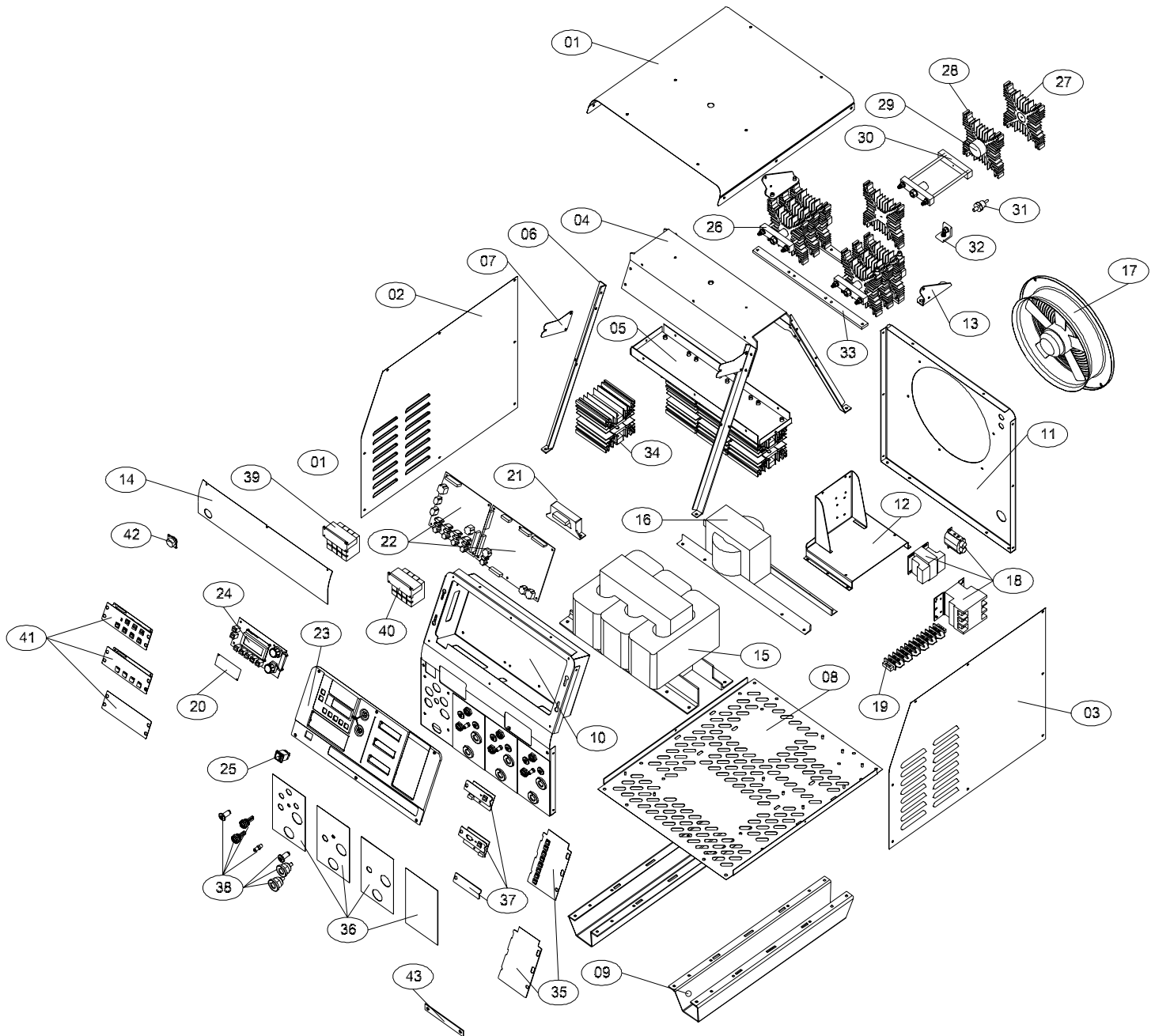


ISE003-F

Section 9

Parts List

230/460 60 Hz Parts List



Section 9

Parts List

230/460 60 Hz Parts List

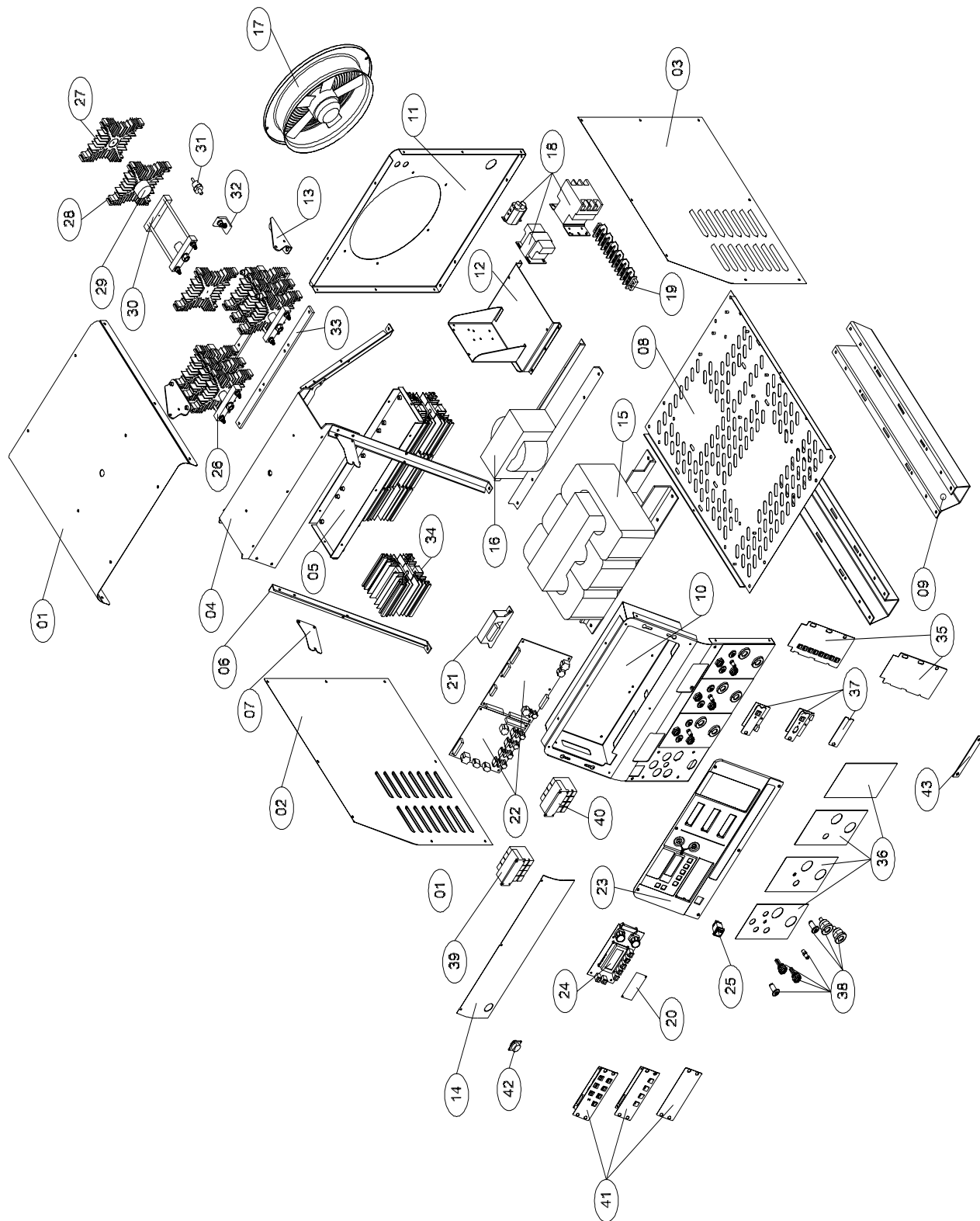
Item	Description	Part Number	
		SW1200	SW2000
01	Sheet Metal Top	PAS240	
02	Sheet Metal Left Side	PAS242	PBS242
03	Sheet Metal Right Side	PAS241	PBS241
	Schematic Decal	PAD241	
04	Cross Brace	PAC280	
05	Multigun SCR Support Pan	PAC281	
06	A-Arm Left Front / Right Rear	PAC260	
	A-Arm Right Front / Left Rear	PAC261	
07	Front Sheet Metal Reinforcement Bracket	PAK111A	
08	Base Pan	PAC221	
09	Chassis Leg	PAC201	
10	Front Sheet Metal Assembly	PAS225	
11	Rear Sheet Metal	PAS230	
12	Auxiliary Module Tray	PAK125	
	Voltage Jumper Decal	PAD125	
	Jumper Wire T1	PAH013	
	Jumper Wire T2	PAH012	
	Jumper Wire T3	PAH011	
	Delta Jumper Wire T1-T3	PAH010	
13	Rectifier Bracket Right Side	PAK102A	
	Rectifier Bracket Left Side	PAK101A	
	Isolation Flat Washer	WFN43-62-25	
	Isolation Shoulder Washer	WSN25-62-50x42-39	
14	Finish Panel (standard)	PAM250	
	Finish Panel (Robot/HLC connector)	PAM251	
15	Transformer 60hz	PAE501	PBE501
	Transformer 50hz	PAE500	PBE500
16	Weld Choke	PAE600	PBE600
17	Cooling Fan Assembly	PAE902	
18	Contactors 1200A	PAE101	PBE101
	Control Transformer	ETC440/220-110-50	
	Control Transformer Fuse	EFFNM-1	
	Fan Capacitor	EC370-6	
19	Fan Capacitor Mtg Bracket	ECB-1	
	Terminal Strip	ETB70-12	
20	Terminal Strip Jumper Link	ETB70	
	Protective LCD Screen Shield	PAM1301	
21	Current Transducer 1200A	ECT1000	ECT1500
22	Main PCB (right side)	PAP101C	
	Multigun/Autofeed Board (Left Side)	PAP1201B	
23	Control Panel	PAM1300	PBM1300
24	User Interface Assembly	PAE2000	
	Rotary Knobs	PAM110	
	Ribbon Cable to Main Board	PAH004	
25	Power Switch	PAE3	
Items Not Shown			
44	Weld Output Filter	PAE801	
45	Cable 1200A Rectifier to Choke	CW3KK-1.3	CW5LL-1.3
46	Cable 1200A Choke to Ground	CW34K-2.3	CW5ML-2.3
47	Cable 1200A Rectifier to Gun	CW34K-3	CW5ML-3
48	Control Panel Retention Straps	PAM71	
49	Retention Strap Spring	PAM72	
50	Main Wiring Harness	PAH002	
51	Multi-gun/Autofeed Aux Power Harness	PAH003	

Item	Description	Part Number	
		SW1200	SW2000
26	Rectifier Assembly	PAE1050	PBE1050
	Single Phase Filter Network	PAE800	
	AC Surge Network	PAE802	
	SCR Harness	PAH001	
27	Single Sided Heatsink	PAM2	
	Spring Pin Locator	SPC12-37ZP	
	Thermal Paste	ETP	
28	Double Sided Heatsink	PAM3	
29	Weld SCR	ESR55006PK	ESR75006PK
30	SCR Clamp 1200A	PAM200	PBM200
31	Snubber Diode	ED5004	
32	Snubber Diode Bracket	PAM50	
33	Rectifier Buss Bar	PAE1001	
34	Steering SCR Assembly	PAE1060	
	Steering SCR Heatsink	PAM4	
	Steering SCR	ESR120002PK	
	Steering SCR Clamp	PAM202	
	Isolation Flat Washer	WFN43-62-31	
	Isolation Shoulder Washer	WSN25-62-50x42-39	
	Common Side Jumper	PAE80	
35	Multi-gun Steering SCR Harness	PAH016	
	Memory Module Blanking Plate	PAS140A	
36	Memory Module Assembly	PAE2102	
	Weld Output Blanking Plate	PAM1100	
	Standard Weld Output (3 Hole)	PAM1110	
	Weld Output with Gas (4 Hole)	PAM1120	
37	Weld Output with Autofeed (7 Hole)	PAM1130	
	Small Module Blanking Plate	PAS120A	
	Data Recorder Module	PAE2103	
	Gas Control Module	PAE2101	
	Panel Mount Weld Cable Connector (Red)	CCL1/ORFR	
38	Panel Mount Weld Cable Connector (Black)	CCL1/ORFB	
	Gas Connector Panel Mount	PNBQ-156B	
	Gun Control Cable Panel Mount Connector	PAH014	
	Feeder Bowl Cable Panel Mount Connector	PAH015	
	Autofeed Air Line Bulkhead Connector	PNB25T25TS	
39	Gas Manifold	PNMA-4	
	Gas Valve	PNVA24-2	
	Gas Valve Station Plug	PNMA-PLUG	
40	Autofeed Air Manifold	PNMB-4	
	Autofeed Valve	PNVA24-4	
41	Autofeed Valve Station Plug	PNMB-PLUG	
	Multi-gun / Autofeed Blanking Plate	PAS130A	
	Multi-gun User Interface	PAE1202	
	Muti-gun / Auto Feed User Interface	PAE1203	
42	Robot / High Level Control Harness	PAH017	
43	Multi-gun Ground Jumper Link	PAE80	
Items Not Shown			
52	Incoming Power Cord Grip	ECG150P	
53	Rear Sheet Metal Hole Plug	PNP75	
54	Ribbon Cable Main PCB to MG PCB	PAH006	
55	Power Cable Main PCB to MG PCB	PAH005	
56	Autofeed Solenoid Harness	PAH008	
57	Bridge Thermoswithch 60C	PAE903	

Section 11

Parts List

220/380 50 Hz Parts List



Section 11

Parts List

220/380 50 Hz Parts List

Item	Description	Part Number	
		SW1200	SW2000
01	Sheet Metal Top	PAS240	
02	Sheet Metal Left Side	PAS242	PBS242
03	Sheet Metal Right Side	PAS241	PBS241
	Schematic Decal	PAD241	
04	Cross Brace	PAC280	
05	Multigun SCR Support Pan	PAC281	
06	A-Arm Left Front / Right Rear	PAC260	
	A-Arm Right Front / Left Rear	PAC261	
07	Front Sheet Metal Reinforcement Bracket	PAK111A	
08	Base Pan	PAC221	
09	Chassis Leg	PAC201	
10	Front Sheet Metal Assembly	PAS225	
11	Rear Sheet Metal	PAS230	
12	Auxillary Module Tray	PAK125	
	Voltage Jumper Decal	PAD125	
	Jumper Wire T1	PAH013	
	Jumper Wire T2	PAH012	
	Jumper Wire T3	PAH011	
13	Delta Jumper Wire T1-T3	PAH010	
	Rectifier Bracket Right Side	PAK102A	
	Rectifier Bracket Left Side	PAK101A	
	Isolation Flat Washer	WFN43-62-25	
14	Isolation Shoulder Washer	WSN25-62-50x42-39	
	Finish Panel (standard)	PAM250	
15	Finish Panel (Robot/HLC connector)	PAM251	
	Transformer 60hz	PAE501	PBE501
16	Transformer 50hz	PAE500	PBE500
	Weld Choke	PAE600	PBE600
17	Cooling Fan Assembly	PAE902	
18	Contactorr 1200A	PAE101	PBE101
	Control Transformer	ETC440/220-110-50	
	Control Transformer Fuse	EFFNM-1	
	Fan Capacitor	EC370-6	
19	Fan Capacitor Mtg Bracket	ECB-1	
	Terminal Strip	ETB70-12	
20	Terminal Strip Jumper Link	ETBJ70	
	Protective LCD Screen Shield	PAM1301	
21	Current Transducer 1200A	ECT1000	ECT1500
22	Main PCB (right side)	PAP101C	
	Multigun/Autofeed Board (Left Side)	PAP1201B	
23	Control Panel	PAM1300	PBM1300
	User Interface Assembly	PAE2000	
24	Rotary Knobs	PAM110	
	Ribbon Cable to Main Board	PAH004	
25	Power Switch	PAE3	
Items Not Shown			
44	Weld Output Filter	PAE801	
45	Cable 1200A Rectifier to Choke	CW3KK-1.3	CW5LL-1.3
46	Cable 1200A Choke to Ground	CW34K-2.3	CW5ML-2.3
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48	Control Panel Retention Straps	PAM71	
49	Retention Strap Spring	PAM72	
50	Main Wiring Harness	PAH002	
51	Multi-gun/Autofeed Aux Power Harness	PAH003	
52	Incoming Power Cord Grip	ECG125P	
53	Rear Sheet Metal Hole Plug	PNP75	
54	Ribbon Cable Main PCB to MG PCB	PAH006	
55	Power Cable Main PCB to MG PCB	PAH005	

Item	Description	Part Number	
		SW1200	SW2000
26	Rectifier Assembly	PAE1050	PBE1050
	Single Phase Filter Network	PAE800	
	AC Surge Network	PAE802	
	SCR Harness	PAH001	
27	Single Sided Heatsink	PAM2	
	Spring Pin Locator	SPC12-37ZP	
	Thermal Paste	ETP	
28	Double Sided Heatsink	PAM3	
29	Weld SCR	ESR55006PK	ESR75006PK
30	SCR Clamp 1200A	PAM200	PBM200
31	Snubber Diode	ED5004	
32	Snubber Diode Bracket	PAM50	
33	Rectifier Buss Bar	PAE1001	
34	Steering SCR Assembly	PAE1060	
	Steering SCR Heatsink	PAM4	
	Steering SCR	ESR120002PK	
	Steering SCR Clamp	PAM202	
	Isolation Flat Washer	WFN43-62-31	
	Isolation Shoulder Washer	WSN25-62-50x42-39	
35	Common Side Jumper	PAE80	
	Multi-gun Steering SCR Harness	PAH016	
	Memory Module Blanking Plate	PAS140A	
36	Memory Module Assembly	PAE2102	
	Weld Output Blanking Plate	PAM1100	
	Standard Weld Output (3 Hole)	PAM1110	
	Weld Output with Gas (4 Hole)	PAM1120	
37	Weld Output with Autofeed (7 Hole)	PAM1130	
	Small Module Blanking Plate	PAS120A	
	Data Recorder Module	PAE2103	
38	Gas Control Module	PAE2101	
	Panel Mount Weld Cable Connector (Red)	CCL1/ORFR	
	Panel Mount Weld Cable Connector (Black)	CCL1/ORFB	
	Gas Connector Panel Mount	PNBQ-156B	
	Gun Control Cable Panel Mount Connector	PAH014	
	Feeder Bowl Cable Panel Mount Connector	PAH015	
39	Autofeed Air Line Bulkhead Connector	PNB25T25TS	
	Gas Manifold	PNMA-4	
	Gas Valve	PNVA24-2	
40	Gas Valve Station Plug	PNMA-PLUG	
	Autofeed Air Manifold	PNMB-4	
	Autofeed Valve	PNVA24-4	
	Autofeed Valve Station Plug	PNMB-PLUG	
41	Multi-gun / Autofeed Blanking Plate	PAS130A	
	Multi-gun User Interface	PAE1202	
42	Multi-gun / Auto Feed User Interface	PAE1203	
	Robot / High Level Control Harness	PAH017	
43	Multi-gun Ground Jumper Link	PAE80	
Items Not Shown			
56	Autofeed Solenoid Harness	PAH008	
57	Bridge Thermoswithch 60C	PAE90B	
58	Thermal Relay	PAE10	
59	Thermal Light	PAE15	
60	Thermal Sticker	PAD 123	
61	Ground Sticker	PAD 4	
62	Negative Polarity Sticker	PAD 3	
63	Positive Polarity Sticker	PAD 2	
64	Warning Sticker	PAD 1	
65	Blanking Sticker	PAD 120	