Purchasable parts shown in roman type.

Non-purchasable parts (including assembly parts not sold separately) shown *in italic type* .

#	Quantity per welder	Item ID	Description
1	1 each	IPAR-A-TIPWRN	Tip Nut Wrench
2	1 only	IPAR-A-TIPNLO	Tip Nut Long
		IPAR-A-TIPNTO	Tip Nut Short
3	1 each	ITIP-2RP	Repair Tip (supplied with new welder). See page 3 for more tips
4	1 each	IPAR-A-BARWSH	Barrel Washer
5	*1 each*	*ISHO-A-EV91*	*1/8" x 1/2" Steel Slotted Spring Pin (Barrel)*
6	1 only	IPAR-A-BARW30	Barrel (comes with #5: Steel Slotted Spring Pin) (also purchase #70: Barrel Sleeve Assembly)
		IPAR-A-BAROSB	Old Style Barrel (comes with #5: Steel Slotted Spring Pin) (also purchase #70: Barrel Sleeve Assembly)
7	*2 each*	*ISHO-A-EV59*	*#8-32 x 5/16" Cup Point Set Screw (Barrel)*
8	1 each	IPAR-A-RTDSE4	RTD Sensor
9	1 only	IPAR-A-HT120V	Heater - 120V
		IPAR-A-HT240V	Heater - 240V
10	1 each	IASS-A-SWHTCO	High Temperature Cut Out Switch Assembly
11	1 each	IPAR-A-BARCTU	Barrel - Connecting Tube
12	*3 each*	*ISHO-A-EV61*	*#8 Split Lock washer (Connecting Tube)*
13	*3 each*	*ISHO-A-EV60*	*#8-32 x 3/4" SHCS (Connecting Tube)*
14	*2 each*	*ISHO-A-EV82*	*3/16 x 1/2" Dowel pin (Main Support)*
15	*2 each*	*ISHO-A-SPCOMPS*	*Compression Spring (Main Support)*
16	1 each	IPAR-A-SUPMAN	Main Support
17	*1 each*	*ISHO-A-EV84*	*1/4-20 x 3/8" Cup Point Set Screw (Rod Feed Tube)*
18	1 each	IPAR-A-RODFTU	Rod Feed Tube
19	*1 each*	*ISHO-A-EV83*	*1/4 x 1" Dowel (Rod Driver)*
20	2 each	IASS-A-ROD-DRIVE	Rod Driver Assembly
20A	*2 each*	*IPAR-A-DRIROD*	*Rod Driver*
20B	*2 each*	*IPAR-A-ROLCLU*	*Roller Clutch*
21	*1 each*	*ISHO-A-EV85*	*1/8 x 3/8" Dowel pin (Steel Crank)*
22	1 each	IPAR-A-LKCW30	Connecting Link
23	1 each	IPAR-A-STLCRK	Steel Crank (comes with #23: Shim)
24	*1 each*	*ISHO-A-SHIM15*	*Shim (Steel Crank)*
25	1 each	IASS-A-PIVOT	Pivot Assembly
25A	*1 each*	*IPAR-A-PVTW30*	*Pivot*
25B	*2 each*	*IPAR-A-ROLBER*	*Roller Bearings*
26	*1 each*	*ISHO-A-EV80*	*3/16 x 1-3/4" Dowel pin (Pivot)*
27	*1 each*	*ISHO-A-EV81*	*5/16 x 1-1/4" SHCS (Connecting Tube)*
28	1 each	IPAR-A-CYLBDY	Cylinder Body (comes with #45: Bushing - Oilite)
29	*1 each*	*ISHO-A-EV62*	*#8-32 x 3/8" SHCS (Ground screw on Cylinder Body)*
30	1 each	IPAR-A-MUFFLR	Muffler
31	1 each	IPAR-A-ADBGAS	Air Distribution Block Gasket
32	1 each	IPAR-A-ADBLOC	Air Distribution Block (sold with #31: AD Block Gasket)
33	1 each	IPAR-A-FITPSH	Push On Male Fitting
34	*8 each*	*ISHO-A-EV70*	*#6 Split Lock washer (Air Distribution Block, MAC Air Valve, Switch Bracket)*
35	*8 each*	*ISHO-A-EV75*	*#6-32 x 1" SHCS (Air Distribution Block, MAC Air Valve, Welder Housing)*
36	*2 each*	*ISHO-A-SPSPCO*	*Spring for Speed Control Bolt*
37	1 each	IPAR-A-BOSPDC	Speed Control Bolt (comes with #36: Spring Speed Control)
38	1 only	IASS-A-PCB120	PC Board 120V Assembly (also purchase #70: Barrel Sleeve Assembly)
		IASS-A-PCB240	PC Board 240V Assembly (also purchase #70: Barrel Sleeve Assembly)
38A	*1 only*	*IPAR-A-PCB120*	*PC Board 120V*
		IPAR-A-PCB240	*PC Board 240V*
38B	1 each	IPAR-A-PCBSTR	PCB Strap
38C	1 each	IPAR-A-INTRW3	Interrupter (comes with #38D: shoulder screw)
38D	*1 each*	*ISHO-A-EV65*	*#4-40 x 1/8" x 1/8" Shoulder Screw (Interrupter)*

39	*9 each*	*ISHO-A-EV70A*	*#6 Zinc Internal tooth lock washer (PCB, Welder Housing)*
40	*2 each*	*ISHO-A-EV73*	*#6-32 x 1/4" SHCS (PCB)*
41	*3 each*	*ISHO-A-EV69*	*#6-32 x 1/2" SHCS (PCB, Switch Bracket)*
42	*1 each*	*ISHO-A-EV63*	*#8-32 x 1/4" Pan Phillips 18.8SS Machine Screw (PCB Strap)*
43	1 only	IPAR-A-MA12W3	MAC Air Valve 120V (sold with #44: MAC Air Valve Gasket)
		IPAR-A-MA24W3	MAC Air Valve 240V (sold with #44: MAC Air Valve Gasket)
44	1 each	ISHO-A-GASVLV	MAC Air Valve Gasket
45	*1 each*	*IPAR-A-BUSOIL*	*Bushing - Oilite*
46	1 each	IPAR-A-OR58ID	O-Ring 5/8" ID X 7/8" OD
47	*1 each*	*ISHO-A-BOCOLC*	*Connecting Link Bolt*
48	*1 each*	*ISHO-A-EV67*	*#10 18.8SS Flat washer (Connecting Link bolt)*
49	1 each	IPAR-A-DRILNK	Link Driver
50	*1 each*	*ISHO-A-EV68*	*#8-32 x 1" SHCS (Link Driver)*
51	1 each	IPAR-A-PSTNROD	Piston Rod
52	2 each	IPAR-A-PSTNSEALS	Piston Seals
53	1 each	IPAR-A-PISTON	Piston (sold with #52: Piston Seals)
54	*1 each*	*ISHO-A-EV64*	*1/4-20 x 5/8" FHCS (Piston)*
55	1 each	IPAR-A-ORCYLC	O-Ring
56	1 each	IPAR-A-CYLCAP	Cylinder End Cap
57	1 each	IPAR-A-SNRING	Internal Snap Ring
58	1 each	IASS-A-AIRFILT 2	Air Filter Assembly
58A	*1 each*	*IPAR-A-ARFITN2*	*Air Line Fitting*
58B	*1 each*	*IPAR-A-AIRFILT2*	*Air Filter Unit*
58C	*1 each*	*IPAR-A-FITQUICKF2*	*Quick Disconnect Fitting*
59	1 only	IASS-A-CRDAUS	AU 240V Power Cord Air Line Assembly
		IASS-A-CRDEURO	EU 240V Power Cord Air Line Assembly
		IASS-A-CRDNAM	NA 120V Power Cord Air Line Assembly
		IASS-A-CRDUKM	UK 240V Power Cord Air Line Assembly
		IASS-A-CRDUKM120	UK 120V Power Cord Air Line Assembly
59A	*1 only*	*IPAR-A-CRDAUS*	*AU 240V Power Cord*
		IPAR-A-CRDEURO	*EU 240V Power Cord*
		IPAR-A-CRDNAM	*NA 120V Power Cord (also for UK 120V power cord air line assembly)*
		IPAR-A-CRDNAM15	*NA 120V Power Cord 15 FT*
		IPAR-A-CRDUKM	*UK 240V Power Cord*
59B	*1 each*	*IPAR-A-ABSBOX*	*ABS Box*
59C	2 each	IPAR-A-CRDRES	Cord Restraint
59D	*1 each*	*IPAR-A-FSEHLD*	*Fuse Holder (qty 2 each for UK 120V, Euro and AU 240V power cord air line assembly)*
59E	*1 each*	*IPAR-A-FSEHOU*	*Fuse Housing (qty 2 each for UK 120V, Euro and AU 240V power cord air line assembly)*
59F	1 only	IPAR-A-FSEALL	Fuse (4 AMP, 20 mm) for NA 120V and UK 120V (qty 2 only for UK 120V power cord air line assembly)
		IPAR-A-FSE2A	Fuse (2 AMP, 20 mm) for UK 240V, EU and AU 240V (qty 2 only for EU and AU 240V power cord air line assembly)
59G	*2 each*	*IPAR-A-TERCON*	*Terminal Surge Connector*
59H	1 each	IPAR-A-CRDGRD	Cord Guard
59I	1 each	IPAR-A-TUBFIB	Fiberglass Tubing
59J	1 each	IPAR-A-ARLINE	Air Line
60	1 each	IPAR-A-SWHON2	On/Off Switch
61	*2 each*	*ISHO-A-EV71*	*#8-32 x 1/2" FHCS (Switch Bracket)*
62	1 each	IPAR-A-BRKSWH	Switch Bracket
63	*2 each*	*ISHO-A-CLMCAB*	*Cable Clamp*
64	*9 each*	*ISHO-A-EV92*	*#8 Zinc external tooth lock washer (Switch Bracket, ABS Box ground wire)*
65	*2 each*	*ISHO-A-EV72*	*#8-32 Zinc Machine Screw hex nut (Cable Clamp)*
66	*1 each*	*ISHO-A-EV93*	*#8 x 3/8" Pan Phillips zinc tap screw (Trigger Switch)*
67	*1 each*	*ISHO-A-EV79*	*#8 Zinc SAE Flat Washer (Trigger Switch)*
68	1 each	IPAR-A-SWTRIG	Trigger Switch (comes with Heat Shrink)

69	1 each	IASS-A-HOUWLD30	Welder Housing Kit (comes with temperature and rod release knob labels; and #35 SHCS and #39 washers)
69A	*1 each*	*IPAR-A-HOUWLD2*	*Welder Housing (both halves)*
69B	*6 each*	*ISHO-A-EV94*	*#6 (M3.5) Steel flat washer (Welder Housing)*
69C	*4 each*	*ISHO-A-EV77*	*#6-32 x 3/4" SHCS (Welder Housing)*
69D	*2 each*	*ISHO-A-EV76*	*#10-24 x 1/2" Pan Phillips 18.8SS Machine screw (Welder Housing)*
69E	1 each	IPAR-A-CRDSTR	Cord Strap
69F	*1 each*	*ISHO-A-EV78*	*#6-32 x 3/8" Pan Phillips 18.8SS machine screw (Cord Strap)*
69G	1 each	IPAR-A-RODRPN	Rod Release Pin
69H	1 each	IPAR-A-RODREK	Rod Release Knob
70	1 each	IASS-A-BARKIT2	Barrel Sleeve Assembly
70A	*1 each*	*ISHO-A-EV90A*	*Barrel Sleeve*
70B	*1 each*	*ISHO-A-EV90-2*	*Barrel Sleeve Tape*
Not shown		ITIP-2BL-5.5	5.5 Blank Tip 5-1/4 inch
Not shown		ITIP-2BN	Bull Nose Tip
Not shown		ITIP-2BW	Butt Weld Tip
Not shown		ITIP-2F4	Fillet Tip - 1/4 inch
Not shown		ITIP-2F5	Fillet Tip - 1/2 inch
Not shown		ITIP-2F6	Fillet Tip - 3/16 inch (supplied with new welder)
Not shown		ITIP-2F8	Fillet Tip - 3/8 inch
Not shown		ITIP-2PR	Prototype Tip

Not shown	*2 each*	*ISHO-A-EV95*	*#6 Zinc External tooth lock washer (HTCO assembly)*
Not shown	*2 each*	*ISHO-A-SCW041*	*#10-24 x 1/4" Cup Point Set Screw (Old Style Barrel)*
Not shown	*2 each*	*ISHO-A-EV96*	*M3.5 x 0.60P x 8mm A2 SS machine screw cheese slot head (Trigger Switch)*
Not shown	*1 each*	*ISHO-A-EV97*	*Flag 16-14 (Trigger switch)*
Not shown	*3 each*	*ISHO-A-EV98*	*Flag 22-18 (HTCO assembly, power cord)*
Not shown	*1 each*	*ISHO-A-EV99*	*#6 22-18 AWG Copper Terminal (HTCO assembly)*
Not shown	*1 each*	*ISHO-A-EV100*	*#8 16-14 AWG Copper Terminal (HTCO assembly)*
Not shown	*2 each*	*ISHO-A-EV101*	*#8 22-18 AWG Copper Terminal (HTCO assembly, power cord ground wire)*
Not shown	*3 each*	*ISHO-A-MOLBK4*	*.156" 4 pole KK wire connector (Molex connector)*
Not shown	*3 each*	*ISHO-A-MOLPK*	*KK .156" Polarizing key*
Not shown	*9 each*	*ISHO-A-MOLTMC*	*.156" Crimp contact 22-18 AWG (RTD, heater, trigger switch, MAC valve, HTCO, ON/OFF switch)*
Not shown	*1 each*	*ISHO-A-EV58*	*Fiberglass Sleeve 3/16" x 4" (comes with heater)*
Not shown		*Shop Supply*	*MG 4900-4917 - SAC305 21 Gauge Solder Wire*
Not shown		*Shop Supply*	*Loctite 620 (green) - Retaining compound (barrel set screws, barrel + connecting tube screws)*
Not shown		*Shop Supply*	*Loctite 246 (blue) - Threadlocker (piston rod screw, connecting link bolt)*
Not shown		*Shop Supply*	*Loctite T70 (red) - Studlok (barrel+main support bolt, rod feed tube set screw, interrupter screw)*
Not shown		*Shop Supply*	*Silicone grease*
Not shown	1 each	IPAR-A-HTTRCO	Heat Transfer and Anti-Seize Compound
Not shown	1 each	IPAR-A-SCRBLD	Scraping Blade
Not shown	1 each	IPAR-A-SCRSTK	Stick Scraper
Not shown	1 each	IPAR-A-SCREWD	Screwdriver
Not shown	1 each	IPAR-A-CASE	Carrying Case
		IWEL-A-W3012V-NA	W30 000 North America
		IWEL-A-W3024V-AUS	W30 000 240V AUS Plug
		IWEL-A-W3024V-EU	W30 000 240V EU Plug
		IWEL-A-W3024V-UK	W30 000 240V UK Plug
		IWEL-A-W3012O-NA	W30 000 Old Barrel 120V NA Plug
		IWEL-A-W3024O-AUS	W30 000 Old Barrel 240V AUS Plug

		IWEL-A-W3024O-EU	W30 000 Old Barrel 240V EU Plug
		IWEL-A-W3024O-UK	W30 000 Old Barrel 240V UK Plug
		IWEL-A-W3012V-UK	W30 000 120V for UK
		IWEL-A-W3012O-UK	W30 000 Old Barrel 120V for UK