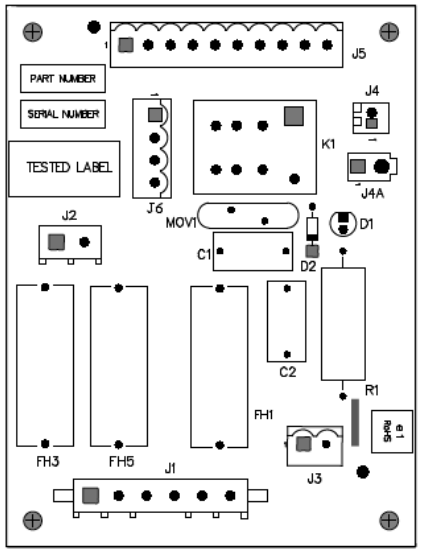
XPR300 Rev 9 IM pg. 390 & XPR170 Rev 8 IM pg. 391 & XPR460 Rev 0 pg. 381

Original

PCB information

Plasma power supply power distribution PCB (141425) diagram

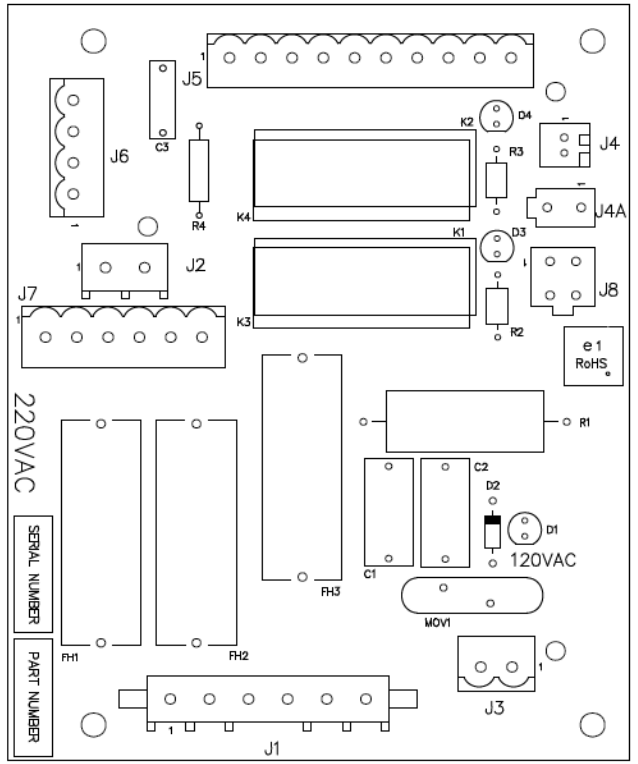


LED	Signal
D1	120 VAC

New

PCB information

Plasma power supply power distribution PCB (141577) diagram

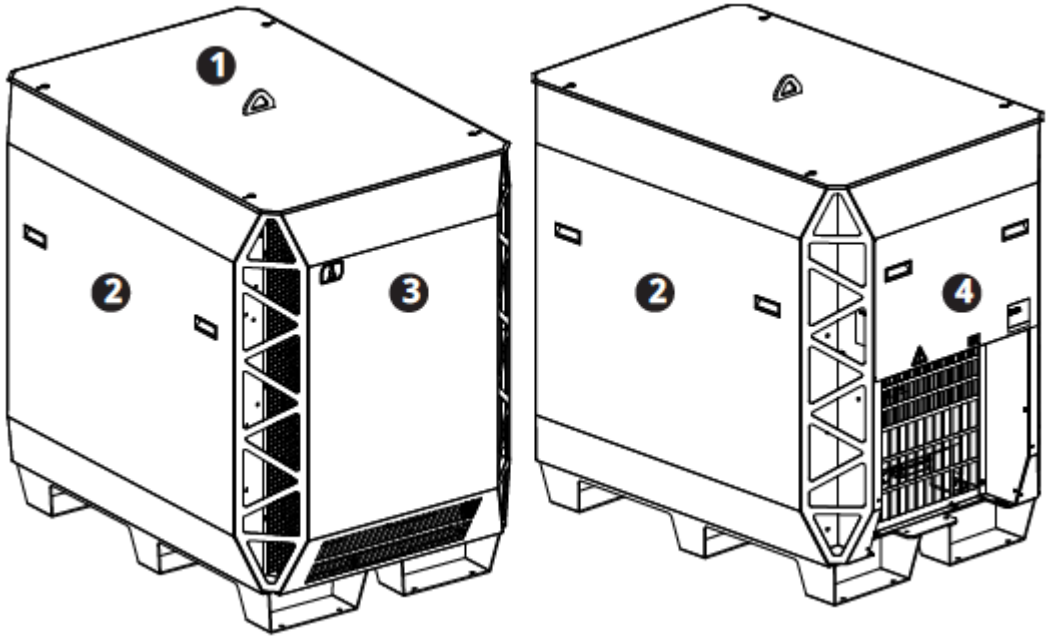


LED	Signal
D1	120 VAC
D3	Relay 1 Enable
D4	Relay 2 Enable

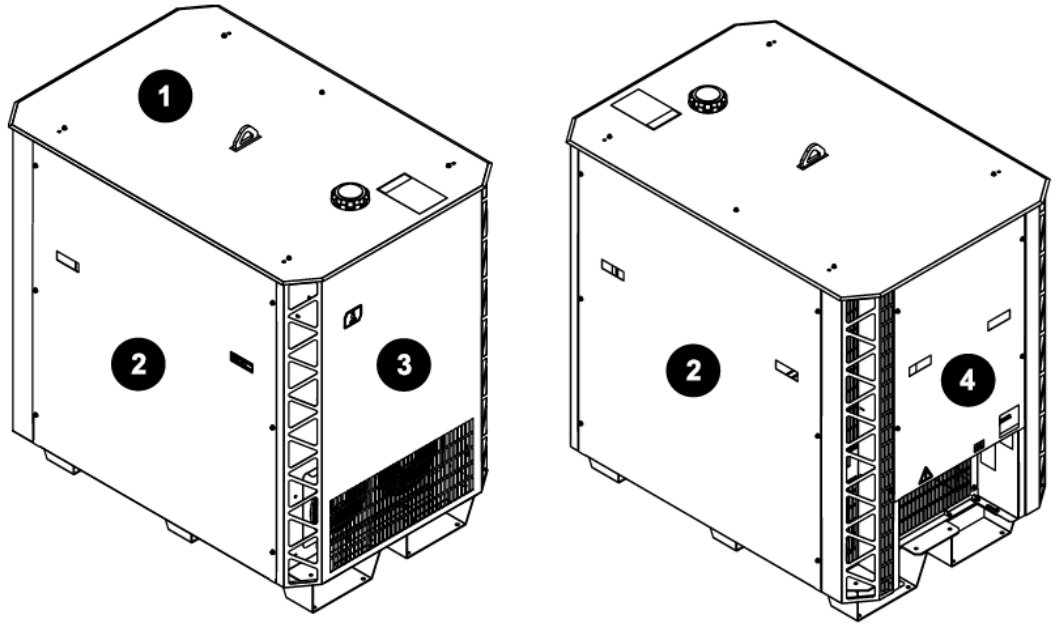
Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 394

Original



New



Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 394

Original

	Part number	Description	Quantity
1	10084227	Top panel with labels	1
2	10084228	Side panel with labels and handles	2
3	10084230	Front panel with "H" (not shown) and power-indicator LED label	1
4	10084229	Rear panel with label and handles	1

New

	Part number	Description	Quantity
1	10087264 [1] 10084227 [2]	Top panel with labels	1
2	10087262 [1] 10084228 [2]	Side panel with labels and handles	2
3	10087261 [1] 10084230 [2]	Front panel with "H" (not shown) and power-indicator LED label	1
4	10087263 [1] 10084229 [2]	Rear panel with label and handles	1

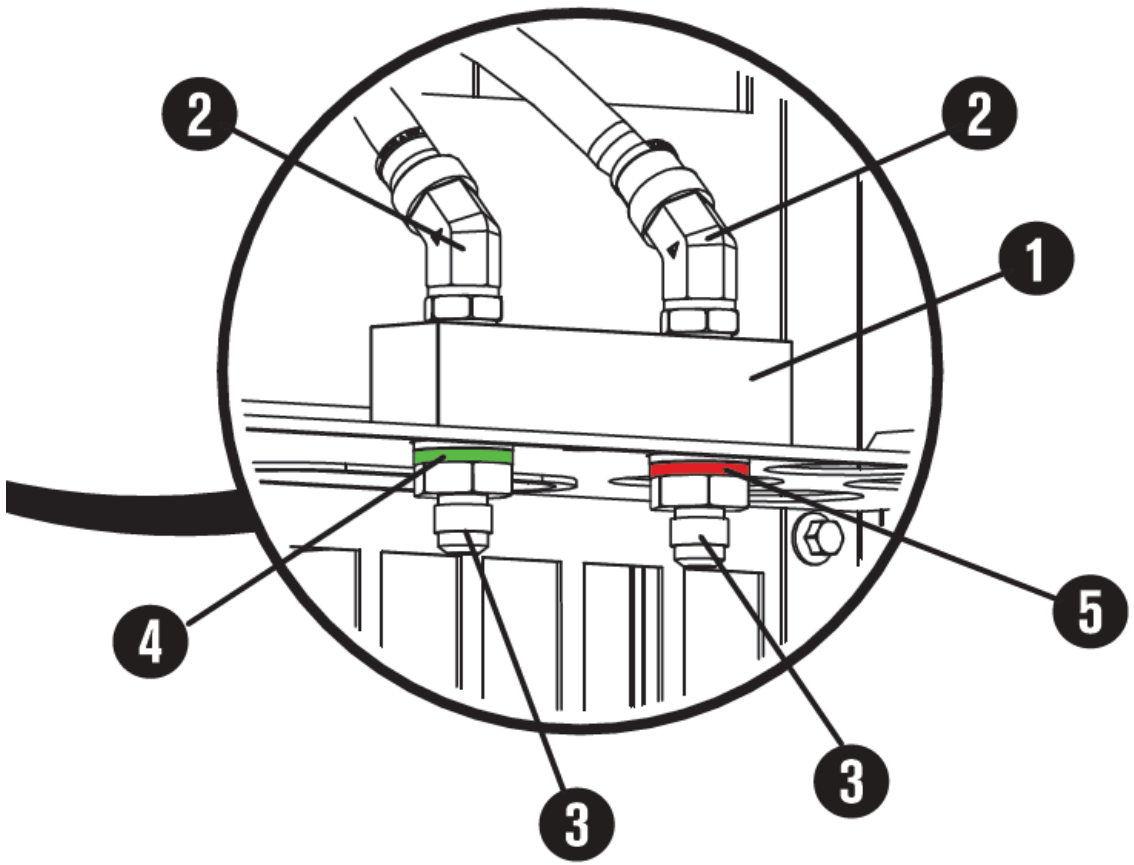
1 Compatible only on systems with a serial number equal to or after XPR460-010000.

2 Compatible only on systems with a serial number before XPR460-010000.

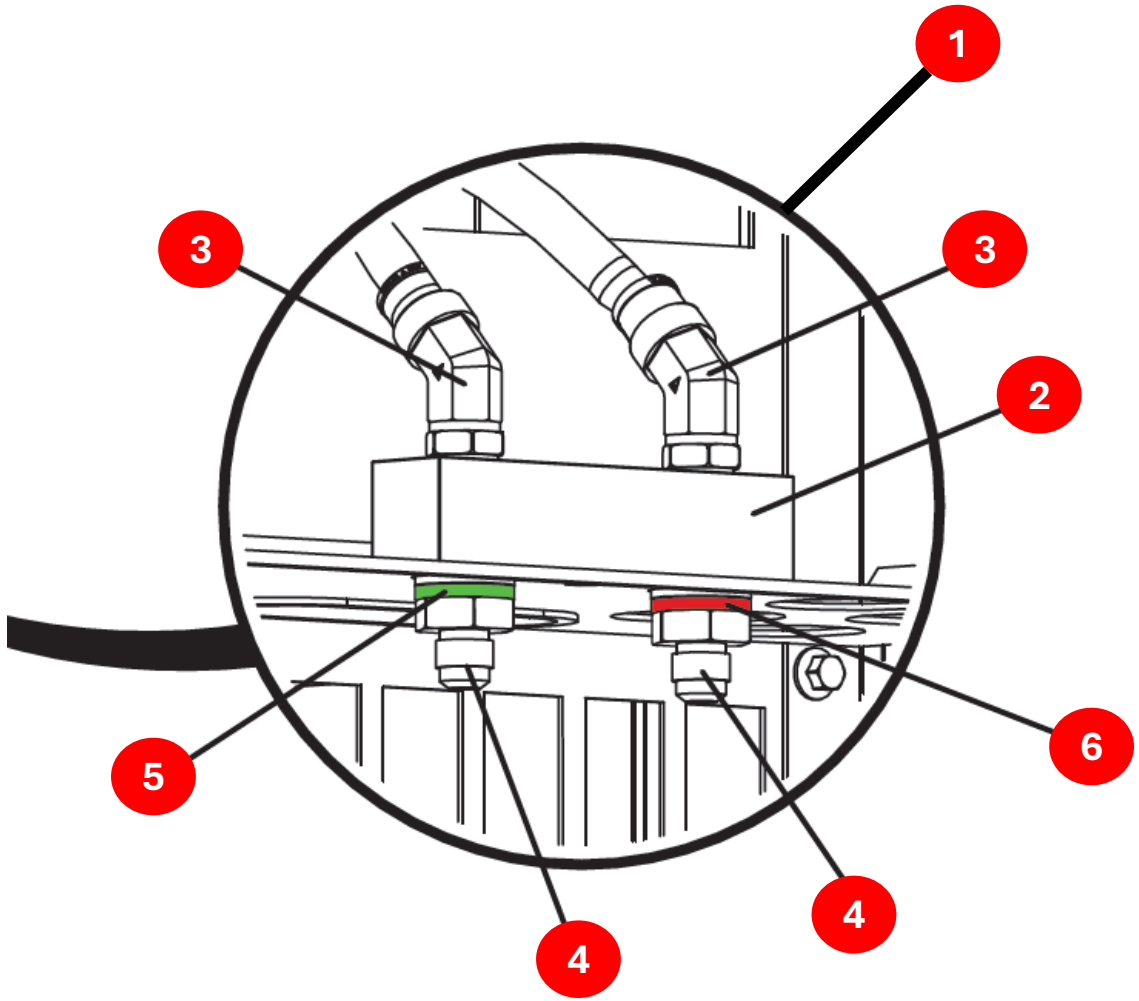
Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 395

Original



New



Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 395

Original

	Part number	Description	Quantity
	10082412	Coolant manifold assembly	1
1	204405	Coolant connections manifold	1
2	015938	Elbow adapter: 3/8 inch NPT X 1/2 inch tube, 45° swivel	2
3	10082222	Adapter: 3/8 inch NPT X #6 male BRS	2
4	10083877	Green ring: 0.70 inch inner diameter	1
5	10083878	Red ring: 0.70 inch inner diameter	1

New

	Part number	Description	Quantity
1	10082412	Coolant manifold assembly	1
2	204405	Coolant connections manifold	1
3	015938	Elbow adapter: 3/8 inch NPT X 1/2 inch tube, 45° swivel	2
4	10082222	Adapter: 3/8 inch NPT X #6 male BRS	2
5	10083877	Green ring: 0.70 inch inner diameter	1
6	10083878	Red ring: 0.70 inch inner diameter	1

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 397

Control parts - 1

Part number	Description	Designator	Quantity
10082976	Power source: 48 VDC with bracket	PS2	1
141577	Power distribution PCB	PCB7	1
108709	Fuse: 10 A, 250 VAC, time delay (on PCB7)	F3, F4, F5	3
Control transformer assembly, 3 kVA			
429142	200 V, 50 Hz - 60 Hz	T1	1
429143	208 V, 60 Hz		
429			
429			
429			
429147	400 V, 50 Hz		
429148	415 V, 50 Hz		
429149	440 V, 50 Hz - 60 Hz		

Replace with:

10087254 Kit: XPR power distribution PCB

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 397

Control parts - 1

Part number	Description	Designator	Quantity
10082976	Power source: 48 VDC with bracket	PS2	1
141577	Power distribution PCB	PCB7	1
108709	Fuse: 10 A, 250 VAC, time delay (on PCB7)	F3, F4, F5	3
Control transformer assembly, 3 kVA			
429142			
429143			
429144			
429145			
429146			
429147	400 V, 50 Hz		
429148	415 V, 50 Hz		
429149	440 V, 50 Hz - 60 Hz		

There are 2 different fuses on 1 board:

10084820	Fuse: 15 A, 250 VAC, time delay (on PCB7)	F1, F2	2
108709	Fuse: 10 A, 250 VAC, time delay (on PCB7)	F3	1

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 398

Control parts - 2

Part number	Description	Designator	Quantity
229640	Power source: 88 VAC - 264 VAC to 24 VDC	PS1	1
10084334	Control PCB with wireless tag	PCB1	1
141592	Wireless module for control PCB	U83	1
141597	Plasma power supply expansion PCB	PCB9	1
208394			
208395			
208397			
10085206	I/OPCB	PCB5	1
003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
003277	Cooler power relay: 24 VDC, co		
101316	Relay cover (pilot arc relay and		
10085251	Chopper assembly	Chopper 3	

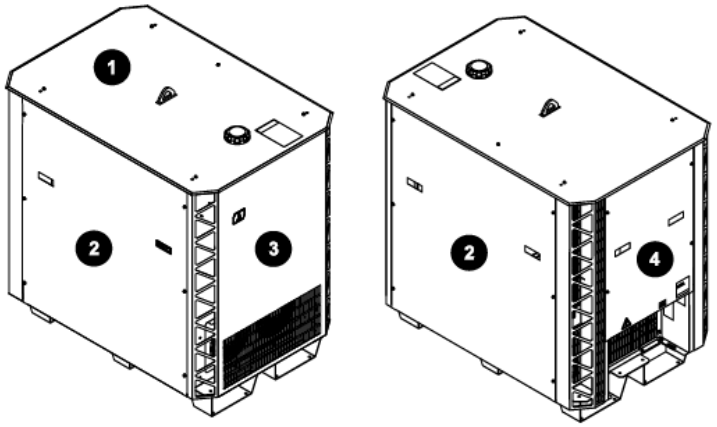
Replace with:

10088158	Kit: Wireless (Wi-Fi) module for main control PCB and wireless tag (not shown)	U83	1

Add space to change to “I/O PCB”

XPR300 Rev 9 IM pg. 402

Remove base



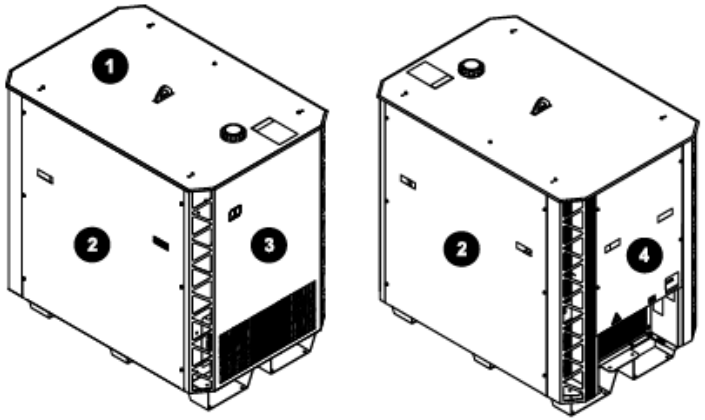
	Part number	Description	Quantity
1	10087259 [1]	Top panel with labels	1
	428728 [2]		
2	10087260 [1]	Side panel with labels and handles	2
	428727 [2]		
3	10087256 [1]	Front panel with "H" (not shown) and power-indicator LED label	1
	428725 [2]		
4	10087258 [1]	Rear panel with label and handles	1
	428726 [2]		
	[illegible] [2]	Base (not shown)	1

1 Compatible only on systems with a serial number equal to or after XPR300-010000.

2 Compatible only on systems with a serial number before XPR300-010000.

XPR170 Rev 8 IM pg. 404

Remove base



	Part number	Description	Quantity
1	10087259 [1]	Top panel with labels	1
	428728 [2]		
2	10087257 [1]	Side panel with labels and handles	2
	428838 [2]		
3	10087256 [1]	Front panel with "H" (not shown) and power-indicator LED label	1
	428725 [2]		
4	10087258 [1]	Rear panel with label and handles	1
	428726 [2]		
		Base (not shown)	1

1 Compatible only on systems with a serial number equal to or after XPR170-010000.

2 Compatible only on systems with a serial number before XPR170-010000.

XPR300 Rev 9 IM pg. 408 & XPR170 Rev 8 IM pg. 410

	Part number	Description	Designator	Quantity
1	003266	Solid state relay	–	1
2	229671	Power source: 88 VAC - 264 VAC to 48 VDC, 600 W	PS2	1
3	428893	Power distribution PCB	PCB7	1
	10084820	Fuse: 15 A, 250 VAC, time delay (on PCB7)	F1, F2	2
	108709	Fuse: 10 A, 250 VAC, time delay (on PCB7)	F3	1

Replace with:

10087254 Kit: XPR power distribution PCB

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 410

	Part number	Description	Designator	Quantity
1	229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
2	10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
	10088158	Kit: Wireless (Wi-Fi) module for main control PCB and wireless tag (not shown)	U83	1
3	141597	Plasma power supply expansion PCB	PCB9	1
4	208394	Fuse holder: 2P, 30 A, 600 V	–	1
	208395	Fuse: 8 A, 600 V, Class R (used in 380 V, 400 V, 415 V, 440 V,	F1, F2	2
	208397	Fuse: V, 240 V		
5	10081573	I/O PCB	PCB5	1
6	003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
7	101316	Pilot arc relay cover	–	1
8	10085251	Chopper assembly	Chopper 1, Chopper 2	2

Replace with:

(not shown, compatible only with 141545 control boards)

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 410

	Part number	Description	Designator	Quantity
1	229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
2	10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
	10088158	Kit: Wireless (Wi-Fi) module for main control PCB and wireless tag (not shown)	U83	1
3	141597	Plasma power supply expansion PCB	PCB9	1
4	208394	Fuse holder: 2P, 30 A, 600 V	–	1
	208395	Fuse: 8 A, 600 V, Class R (used in 380 V, 400 V, 415 V, 440 V,	F1, F2	2
	208397	Fuse: 1 V, 208 V, 220 V, 240 V		
5	10081573	I/O PCB	PCB5	1
6	003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
7	101316	Pilot arc relay cover	–	1
8	10085251	Chopper assembly	Chopper 1, Chopper 2	2

Replace with:

141597 [1]

[1] Compatible only on systems with a serial number equal to or after XPR300-010000.

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 410

	Part number	Description	Designator	Quantity
1	229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
2	100843	…d wireless tag	PCB1	1
	100881	…ntrol PCB and	U83	1
3	141597		PCB9	1
4	208394		–	1
	208395	Fuse: 8 A, 600 V, Class R (used in 380 V, 400 V, 415 V, 440 V, 480 V, 600 V)	F1, F2	2
	208397	Fuse: 15 A, 600 V, Class R (used in 200 V, 208 V, 220 V, 240 V)		
5	10081573	I/O PCB	PCB5	1
6	003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
7	101316	Pilot arc relay cover	–	1
8	10085251	Chopper assembly	Chopper 1, …pper 2	2

Replace with:

10085206 [1] Kit: I/O PCB

10087255 [2] Kit: I/O PCB

[1] Compatible only on systems with a serial number equal to or after XPR300-010000.

[2] Compatible only on systems with a serial number before XPR300-010000.

XPR300 Rev 9 IM pg. 410

Wire harnesses and CAN cables in plasma power supply

Part number	Description
528134	Wire harnesses for the XPR300: ▪ Primary wire harness for the plasma power supply ▪ Wire harness to the 48 V power source in the plasma power supply when a solid state relay is present ▪ Wire harness to the 48 V power source in the plasma power supply when no solid state relay is present
10081204	Wire harness for the fan power distribution PCB
223399	hopper.
223400	

Replace with:

10086605 [1] **(same original description)**

528134 [2] **(same original description)**

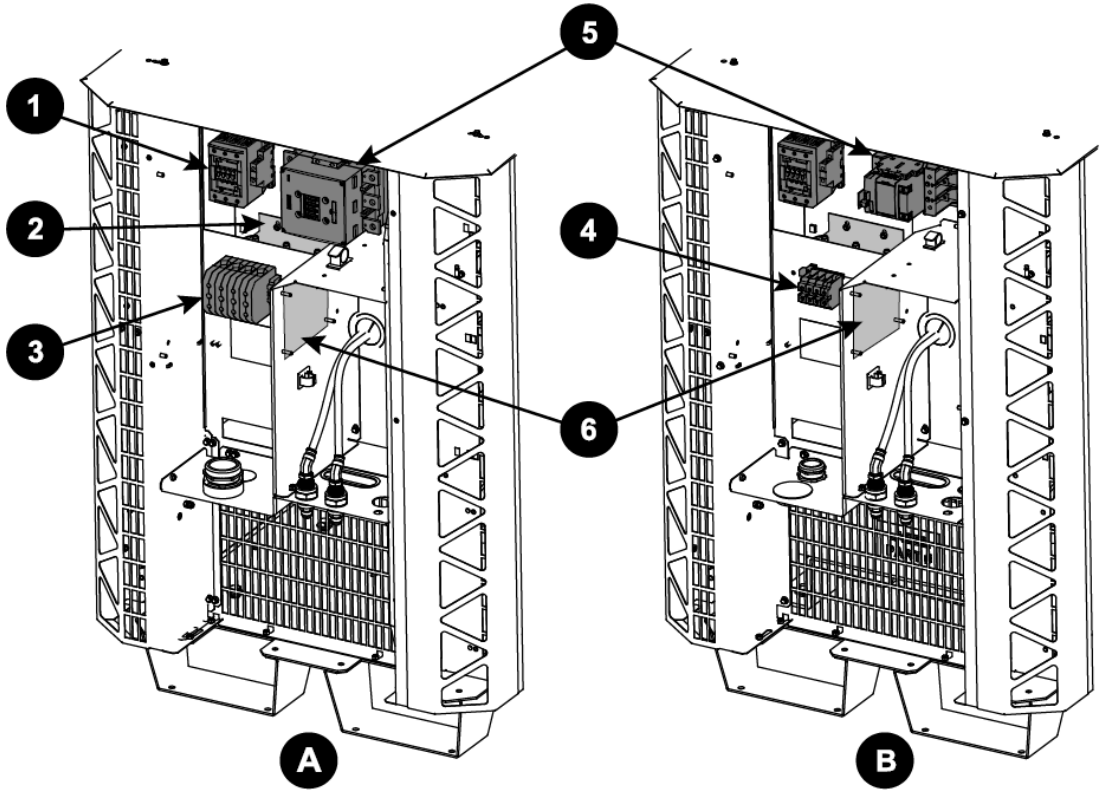
[1] Compatible only on systems with a serial number equal to or after XPR300-010000.

[2] Compatible only on systems with a serial number before XPR300-010000.

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 411

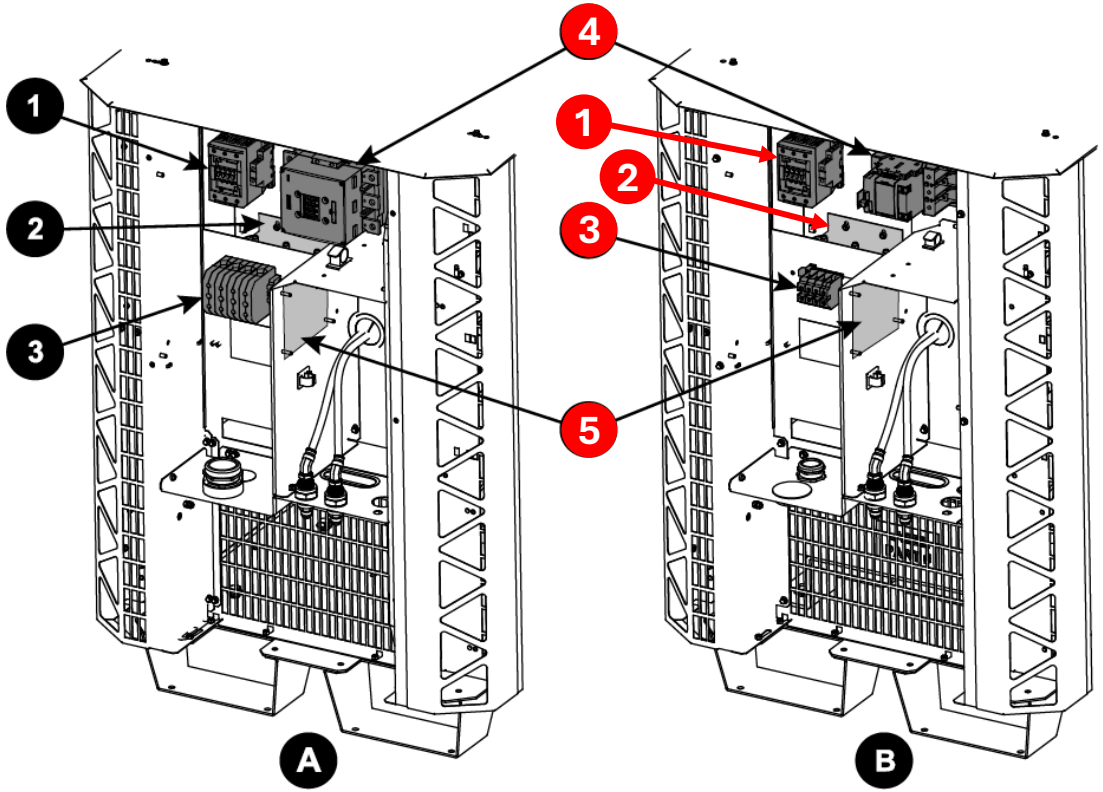
Original



A 200 V, 208 V, 240 V plasma power supplies

B 380 V, 400 V, 415 V, 440 V, 480 V, 600 V plasma power supplies

New



A 200 V, 208 V, 220 V, 240 V plasma power supplies

B 380 V, 400 V, 415 V, 440 V, 480 V, 600 V plasma power supplies

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 411

	Part number	Description	Designator	Quantity
1	229697	Inrush contactor: 80 A, IEC AC-3, 3-phase, 120 VAC	IR_CON	1
2	209274	Inrush resistor assembly, 2 Ω X 3	–	1
3	229033	Terminal block 600 V, 200 A (380 V, 400 V, 415 V, 440 V, 480 V, 600 V)	TB1	1
4	029316	Terminal block 600 V, 140 A (380 V, 440 V, 480 V, 600 V)		
5	003276	Main contactor (200 V, 208 V, 220 V, 240 V)	M_CON	1
	429060	Main contactor assembly (380 V, 400 V, 415 V, 440 V, 480 V, 600 V)		
6	141511			
	10080016			

Change to:

3

229033 Terminal block, 200 A (200 V, 208 V, 220 V, 240 V, 380 V, 400 V, 415 V)

029316 Terminal block, 140 A (440 V, 480 V, 600 V)

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 411

	Part number	Description	Designator	Quantity
1	229697	Inrush contactor: 80 A, IEC AC-3, 3-phase, 120 VAC	IR_CON	1
2	209274	Inrush resistor assembly, 2 Ω X 3	–	1
3	229033	Terminal block 600 V, 200 A (380 V, 400 V, 415 V, 440 V, 480 V, 600 V)	TB1	1
4	029316	Terminal block 600 V, 140 A (380 V, 440 V, 480 V, 600 V)		
5	003276	Main contactor (200 V, 208 V, 220 V, 240 V)	M_CON	1
	429060	Main contactor assembly (380 V, 400 V, 415 V, 440 V, 480 V, 600 V)		
6	141511	tional, for use with RS-422 and dis-tems)	–	1
	10080016	t output terminals for connect-and pilot arc cables in the plasma	–	–

Change to:

4

5

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR170 Rev 8 IM pg. 412

	Part number	Description	Designator	Quantity
1	229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
2	10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
	10088158	Kit: Wireless (Wi-Fi) module for main control PCB and wireless tag (not shown)	U83	1
3	141597	Plasma power supply expansion PCB	PCB9	1
4	208394	Fuse holder: 2P, 30 A, 600 V	–	1
	208395	0 V, 415 V,	F1, F2	2
	208397	08 V, 220 V, 240 V)		
5	10081573	I/O PCB	PCB5	1
6	003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
7	101316	Pilot arc relay cover	–	1
8	10085251	Chopper assembly	Chopper 1	1

Replace with:

(not shown, compatible only with 141545 control boards)

XPR170 Rev 8 IM pg. 412

	Part number	Description	Designator	Quantity
1	229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
2	10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
	10088158	Kit: Wireless (Wi-Fi) module for main control PCB and wireless tag (not shown)	U83	1
3	141597	Plasma power supply expansion PCB	PCB9	1
4	208394	Fuse holder: 2P, 30 A, 600 V	–	1
	208395	Fuse: 8 A, 600 V, Class R (used in 380 V, 400 V, 415 V, 440 V	F1, F2	2
	208397	Fuse: ed in 200 V, 208 V, 220 V, 240		
5	10081573	I/O PCB	PCB5	1
6	003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
7	101316	Pilot arc relay cover	–	1
			Chopper 1	1

Replace with:

141597 [1]

[1] Compatible only on systems with a serial number equal to or after XPR170-010000.

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR170 Rev 8 IM pg. 412

	Part number	Description	Designator	Quantity
1	229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
2	10084	y and wireless tag	PCB1	1
	10088	n control PCB and	U83	1
3	14159	B	PCB9	1
4	20839		–	1
	208395	Fuse: 8 A, 600 V, Class R (used in 380 V, 400 V, 415 V, 440 V, 480 V, 600 V)	F1, F2	2
	208397	Fuse: 15 A, 600 V, Class R (used in 200 V, 208 V, 220 V, 240 V)		
5	10081573	I/O PCB	PCB5	1
6	003277	Pilot arc relay: 24 VDC, coil, 60 A 28 VDC contacts	CR1	1
7	101316	Pilot arc relay cover	–	1
			Chopper 1	1

Replace with:

10085206 [1] Kit: I/O PCB

10087255 [2] Kit: I/O PCB

[1] Compatible only on systems with a serial number equal to or after XPR170-010000.

[2] Compatible only on systems with a serial number before XPR170-010000.

XPR170 Rev 8 IM pg. 412

Wire harnesses and CAN cables in plasma power supply

Part number	Description
528135	Wire harnesses for the XPR170: ▪ Primary wire harness for the plasma power supply ▪ Wire harness to the 48 V power source in the plasma power supply when a solid state relay is present ▪ Wire harness to the 48 V power source in the plasma power supply when no solid state relay is present
10081204	Wire harness for the fan power distribution PCB
223400	oper.

Replace with:

10086604 [1] **(same original description)**

528135 [2] **(same original description)**

[1] Compatible only on systems with a serial number equal to or after XPR170-010000.

[2] Compatible only on systems with a serial number before XPR170-010000.

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR170 Rev 8 IM pg. 413

	Part number	Description	Designator	Quantity
1	229033	Terminal block 600 V, 200 A (380 V, 400 V, 415 V, 440 V, 480 V, 600 V)	TB1	1
2	209453	EMI filter with terminal block (400 V, 415 V CE)		
3	029316			
4	003276			1
	429060	Main contactor assembly (380 V, 400 V, 415 V, 440 V, 480 V, 600 V)		
5	141511	VDC3 PCB (Optional, for use with RS-422 and discrete cutting systems)		1
	10080016	Kit: Replacement output terminals for connecting work cables and pilot arc cables in the plasma power supply	–	–

Change to:

229033 Terminal block, 200 A (200 V, 208 V, 220 V, 240 V)

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 414 & XPR170 Rev 8 IM pg. 416

	Part number	Description	Console	Designator	Quantity
3	229838	[illegible]	[illegible]ore, CorePlus, VWI, [illegible]ptiMix	T1	1
4	009045	[illegible]	[illegible]ore, CorePlus, VWI, [illegible]ptiMix	–	1
5	141563 [1]	High-frequency, high-voltage ignition PCB	Core, CorePlus, VWI, OptiMix	PCB2	1
	141354 [2]		Core, VWI, OptiMix		
6	141595	Spark gap PCB	Core, CorePlus, VWI, OptiMix	–	1

Add superscript:

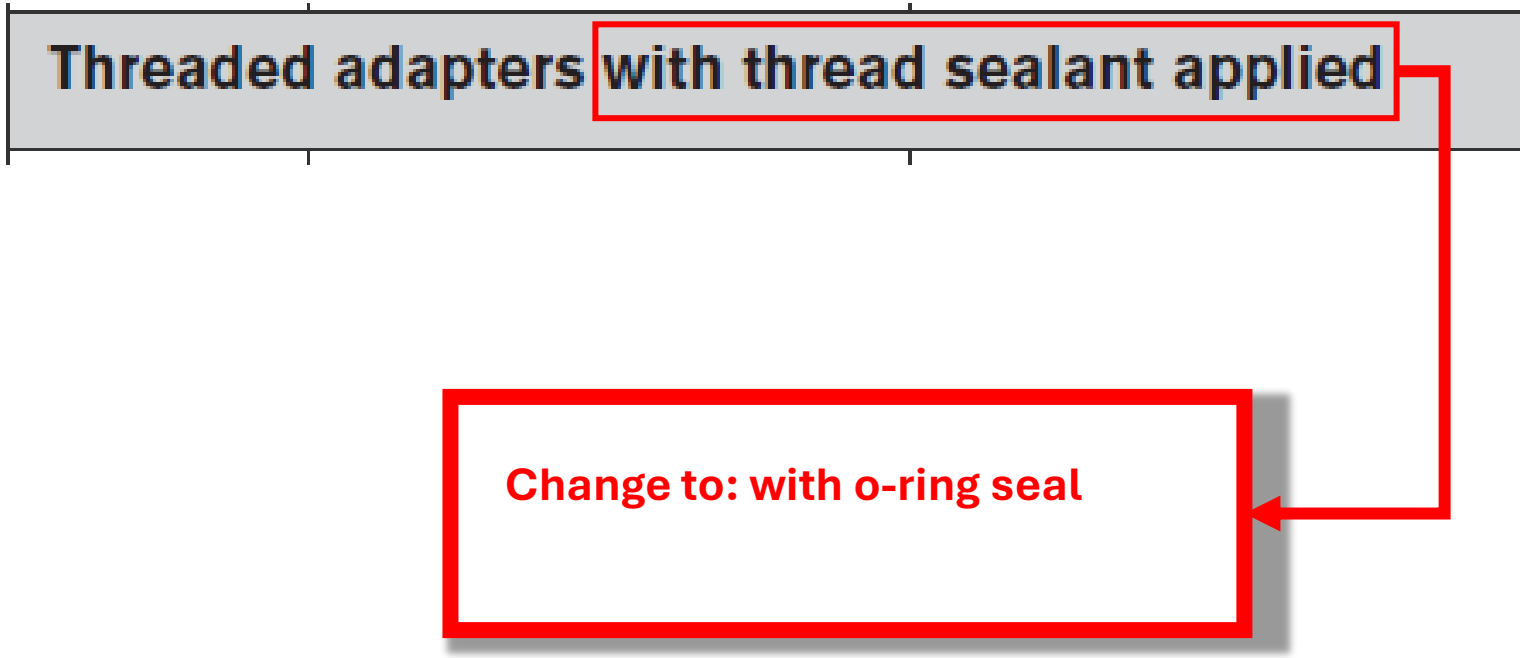
141595 [1]

1 For gas connect consoles with a serial number that is more than 5,000.

2 For gas connect consoles with a serial number that is less than 5,000.

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 416, 417, 419, 421, 427 & XPR170 Rev 8 IM pg. 418, 419, 421, 423, 429 & XPR460 Rev 0 IM pg. 408 (2X), 410, 412, 418



Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 419, 421 & XPR170 Rev 8 IM pg. 421, 423 & XPR460 Rev 0 IM pg. 410, 412

015012	1/4 inch NPT X #6 male

Change to:
1/4 inch NPT X #6 male with thread sealant applied

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 421 (before 10083905)

Stainless steel and aluminum consumable starter kit (520050)

Part number	Name (not included in IM)	IM Description	Quantity
420288	NOZ:XPR 40A NON-FER	Nozzle: 40 A	2
420290	NOZ:XPR 80A NON-FER WTR	Nozzle: 80 A H_2O	2
420291	SHLD ASSY:XPR 40A NON-FER	Shield: 40 A	2
420294	ELCTD:XPR 40/60/80A AL AIR	Electrode: 40 A - 80 A aluminum air/air	1
420296	NOZ:XPR 60A NON-FER WTR	Nozzle: 60 A H_2O	1
420297	NOZ:XPR 60A NON-FER	Nozzle: 60 A	1
420300	SHLD ASSY:XPR 60A/80A NON-FER WTR	Shield: 60 A - 80 A H_2O	1
420303	ELCTD:XPR 40/60/80A NON-FER	Electrode: 40 A - 80 A	2
420306	NOZ:XPR 80A NON-FER	Nozzle: 80 A	2
420309	SHLD ASSY:XPR 60A/80A NON-FER	Shield: 60 A - 80 A	2
420314	SWL RNG:XPR 40/130/170A NON-FER CW	Swirl ring: 40 A - 170 A multiple processes	1
420315	NOZ:XPR 130A NON-FER	Nozzle: 130 A	2
420318	SHLD ASSY:XPR 130A NON-FER	Shield: 130 A	1
420323	SWL RNG:XPR 60/80/170/300/460A NON-FER CW	Swirl ring: 60 A - 460 A multiple processes	2
420324	NOZ:XPR 170A NON-FER	Nozzle: 170 A	2
420327	SHLD ASSY:XPR 170A NON-FER	Shield: 170 A	1
420356	ELCTD:XPR 130/170/300A NON-FER	Electrode: 130 A - 300 A	2
420358	SWL RNG:XPR 300/460A NON-FER CW	Swirl ring: 300 A - 460 A multiple	2
420359	NOZ:XPR 300A NON-FER	Nozzle: 300 A	2
420362	SHLD ASSY:XPR 300A NON-FER	Shield: 300 A	2
420469	SHLD ASSY:XPR 130A NON-FER WTR	Shield: 130 A H_2O	1
420472	SHLD ASSY:XPR 170A NON-FER WTR	Shield: 170 A H_2O	1
420475	SHLD ASSY:XPR 300A NON-FER WTR	Shield: 300 A H_2O	1
420996	NOZ ASSY:XPR 460A NON-FER	Nozzle: 460 A	4
420997	ELCTD:XPR 460A NON-FER	Electrode: 460 A	4
420998	SHLD ASSY:XPR 460A NON-FER	Shield: 460 A	2
520033	SHLD ASSY:XPR 460A NON-FER WTR	Shield: 460 A H_2O	2
420368	WTR TUBE ASSY:XPR	Water tube	1
420200	CAP:XPR SHLD RTNR	Shield retaining cap	1
420365	CAP:XPR NOZ RTNR	Nozzle retaining cap	1
104879	WRENCH:2.25" DIA SPANNER	2.25 inch spanner wrench	1
10080574	TL:XPR CONSUM	XPR consumable tool	1
027055	LUBT:SILCN 1/4-OZ TUBE	Silicone lubricant, 1/4 ounce	1

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 422 (before Other consumable and torch parts)

Stainless steel and aluminum consumable starter kit with torch (520051)

Part number	Name (not included in IM)	IM Description	Quantity
420221	HEAD:XPR QDISC	Quick-disconnect torch head	1
420288	NOZ:XPR 40A NON-FER	Nozzle: 40 A	2
420290	NOZ:XPR 80A NON-FER WTR	Nozzle: 80 A H_2O	2
420291	SHLD ASSY:XPR 40A NON-FER	Shield: 40 A	2
420294	ELCTD:XPR 40/60/80A AL AIR	Electrode: 40 A - 80 A aluminum air/air	1
420296	NOZ:XPR 60A NON-FER WTR	Nozzle: 60 A H_2O	1
420297	NOZ:XPR 60A NON-FER	Nozzle: 60 A	1
420300	SHLD ASSY:XPR 60A/80A NON-FER WTR	Shield: 60 A - 80 A H_2O	1
420303	ELCTD:XPR 40/60/80A NON-FER	Electrode: 40 A - 80 A	2
420306	NOZ:XPR 80A NON-FER	Nozzle: 80 A	2
420309	SHLD ASSY:XPR 60A/80A NON-FER	Shield: 60 A - 80 A	2
420314	SWL RNG:XPR 40/130/170A NON-FER CW	Swirl ring: 40 A - 170 A multiple processes	1
420315	NOZ:XPR 130A NON-FER	Nozzle: 130 A	2
420318	SHLD ASSY:XPR 130A NON-FER	Shield: 130 A	1
420323	SWL RNG:XPR 60/80/170/300/460A NON-FER CW	Swirl ring: 60 A - 460 A multiple processes	2
420324	NOZ:XPR 170A NON-FER	Nozzle: 170 A	2
420327	SHLD ASSY:XPR 170A NON-FER	Shield: 170 A	1
420356	ELCTD:XPR 130/170/300A NON-FER	Electrode: 130 A - 300 A	2
420358	SWL RNG:XPR 300/460A NON-FER CW	Swirl ring: 300 A - 460 A multiple processes	2
420359	NOZ:XPR 300A NON-FER	Nozzle: 300 A	2
420362	SHLD ASSY:XPR 300A NON-FER	Shield: 300 A	2
420469	SHLD ASSY:XPR 130A NON-FER WTR	Shield: 130 A H_2O	1
420472	SHLD ASSY:XPR 170A NON-FER WTR	Shield: 170 A H_2O	1
420475	SHLD ASSY:XPR 300A NON-FER WTR	Shield: 300 A H_2O	1
420996	NOZ ASSY:XPR 460A NON-FER	Nozzle: 460 A	4
420997	ELCTD:XPR 460A NON-FER	Electrode: 460 A	4
420998	SHLD ASSY:XPR 460A NON-FER	Shield: 460 A	2
520033	SHLD ASSY:XPR 460A NON-FER WTR	Shield: 460 A H_2O	2
420368	WTR TUBE ASSY:XPR	Water tube	1
420200	CAP:XPR SHLD RTNR	Shield retaining cap	1
420365	CAP:XPR NOZ RTNR	Nozzle retaining cap	1
104879	WRENCH:2.25" DIA SPANNER	2.25 inch spanner wrench	1
10080574	TL:XPR CONSUM	XPR consumable tool	1
027055	LUBT:SILCN 1/4-OZ TUBE	Silicone lubricant, 1/4 ounce	1

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 422 (before Other consumable and torch parts, after 520051)

Core and CorePlus console non-ferrous consumable starter kit (520052)

Part number	Name (not included in IM)	IM Description	Quantity
420288	NOZ:XPR 40A NON-FER	Nozzle: 40 A	2
420291	SHLD ASSY:XPR 40A NON-FER	Shield: 40 A	2
420294	ELCTD:XPR 40/60/80A AL AIR	Electrode: 40 A - 80 A aluminum air/air	1
420297	NOZ:XPR 60A NON-FER	Nozzle: 60 A	2
420303	ELCTD:XPR 40/60/80A NON-FER	Electrode: 40 A - 80 A	2
420306	NOZ:XPR 80A NON-FER	Nozzle: 80 A	2
420309	SHLD ASSY:XPR 60A/80A NON-FER	Shield: 60 A - 80 A	2
420314	SWL RNG:XPR 40/130/170A NON-FER CW	Swirl ring: 40 A - 170 A multiple processes	1
420315	NOZ:XPR 130A NON-FER	Nozzle: 130 A	2
420318	SHLD ASSY:XPR 130A NON-FER	Shield: 130 A	1
420323	SWL RNG:XPR 60/80/170/300/460A NON-FER CW	Swirl ring: 60 A - 460 A multiple processes	2
420324	NOZ:XPR 170A NON-FER	Nozzle: 170 A	2
420327	SHLD ASSY:XPR 170A NON-FER	Shield: 170 A	1
420356	ELCTD:XPR 130/170/300A NON-FER	Electrode: 130 A - 300 A	2
420359	NOZ:XPR 300A NON-FER	Nozzle: 300 A	2
420362	SHLD ASSY:XPR 300A NON-FER	Shield: 300 A	2
420996	NOZ ASSY:XPR 460A NON-FER	Nozzle: 460 A	4
420997	ELCTD:XPR 460A NON-FER	Electrode: 460 A	4
420998	SHLD ASSY:XPR 460A NON-FER	Shield: 460 A	2
420358	SWL RNG:XPR 300/460A NON-FER CW	Swirl ring: 300 A - 460 A multiple processes	1
420368	WTR TUBE ASSY:XPR	Water tube	1
420200	CAP:XPR SHLD RTNR	Shield retaining cap	1
420365	CAP:XPR NOZ RTNR	Nozzle retaining cap	1
104879	WRENCH:2.25" DIA SPANNER	2.25 inch spanner wrench	1
10080574	TL:XPR CONSUM	XPR consumable tool	1
027055	LUBT:SILCN 1/4-OZ TUBE	Silicone lubricant, 1/4 ounce	1

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 435

Part number	Description	Designator	Quantity
428810	Shield-fluid treatment filter	-	1
229640	Power source: 88 VAC - 264 VAC to 24 VDC	PS1	1
10082976	Power source: 48 VDC with bracket	PS2	1
10085251	Chopper assembly	Chopper 1, Chopper 2, Chopper 3	1
10084334	Control PCB	PCB1	1
10085206	I/OPCB	PCB5	1
141384	Fan power distribution PCB	PCB6	1
141577	Power distribution PCB		
108709	Fuse:10 A, 250 VAC, tim		

Add space to change to “I/O PCB”

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 435

Part number	Description	Designator	Quantity
428810	Shield-fluid treatment filter	-	1
229640	Power source: 88 VAC - 264 VAC to 24 VDC	PS1	1
10082976		S2	1
10085251		hopper 1, hopper 2, Chopper 3	1
10084334	Control PCB	PCB1	1
10085206	I/OPCB	PCB5	1
141384	Fan power distribution PCB	PCB6	1
141577	Power distribution PCB	PCB7	1
108709	Fuse:10 A, 250 VAC, time delay (on PCB7)	F3, F4, F5	2

Replace with:

10087254 Kit: XPR power distribution PCB

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR460 Rev 0 IM pg. 435

Part number	Description	Designator	Quantity
428810	Shield-fluid treatment filter	-	1
229640	Power source: 88 VAC - 264 VAC to 24 VDC	PS1	1
10082976	Power source: 48 VDC with bracket	PS2	1
10085251	Chopper assembly	Chopper 1, Chopper 2,	1
10084334			
10085206			
141384			
141577	Power distribution PCB	PCB7	1
108709	Fuse:10 A, 250 VAC, time delay (on PCB7)	F3, F4, F5	2

There are 2 different fuses on 1 board:

10084820	Fuse: 15 A, 250 VAC, time delay (on PCB7)	F1, F2	2
108709	Fuse: 10 A, 250 VAC, time delay (on PCB7)	F3	1

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR300 Rev 9 IM pg. 448

Part number	Description	Designator	Quantity
428810	Shield-fluid treatment filter	–	1
027005			1
006113			1
229640			1
229671	264 VAC to 48 VDC, 600 W		1
10085251	Chopper assembly	Chopper 1	1
10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
10081573	Kit: I/O PCB	PCB5	1
141384	Fan power distribution PCB	PCB6	1
			1

Replace with:

10085206 [1] Kit: I/O PCB

10087255 [2] Kit: I/O PCB

[1] Compatible only on systems with a serial number equal to or after XPR300-010000.

[2] Compatible only on systems with a serial number before XPR300-010000.

XPR300 Rev 9 IM pg. 448 & XPR170 Rev 8 IM pg. 450

Part number	Description	Designator	Quantity
428810	Shield-fluid treatment filter	–	1
027005	Coolant filter (fine)	–	1
006113	Coolant check valve	–	1
229640	Power source: 88 VAC – 264 VAC to 24 VDC	PS1	1
229671			1
10085251			1
10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
10081573	Kit: I/O PCB	PCB5	1
141384	Fan power distribution PCB	PCB6	1
428893	Power distribution PCB	PCB7	1

Replace with:

10087254 Kit: XPR power distribution PCB

Classified as Hypertherm Inc. - Business Use - This document contains information that is proprietary or confidential to Hypertherm, Inc.

XPR170 Rev 8 IM pg. 450

Part number	Description	Designator	Quantity
428810	Shield-fluid treatment filter	–	1
027005			1
006113			1
229640			1
229671	264 VAC to 48 VDC, 600 W		1
10085251	Chopper assembly	Chopper 1	1
10084334	Kit: XPR main control PCB assembly and wireless tag	PCB1	1
10081573	Kit: I/O PCB	PCB5	1
141384	Fan power distribution PCB	PCB6	1
			1

Replace with:

10085206 [1] Kit: I/O PCB

10087255 [2] Kit: I/O PCB

[1] Compatible only on systems with a serial number equal to or after XPR170-010000.

[2] Compatible only on systems with a serial number before XPR170-010000.