



PM- 298713 B

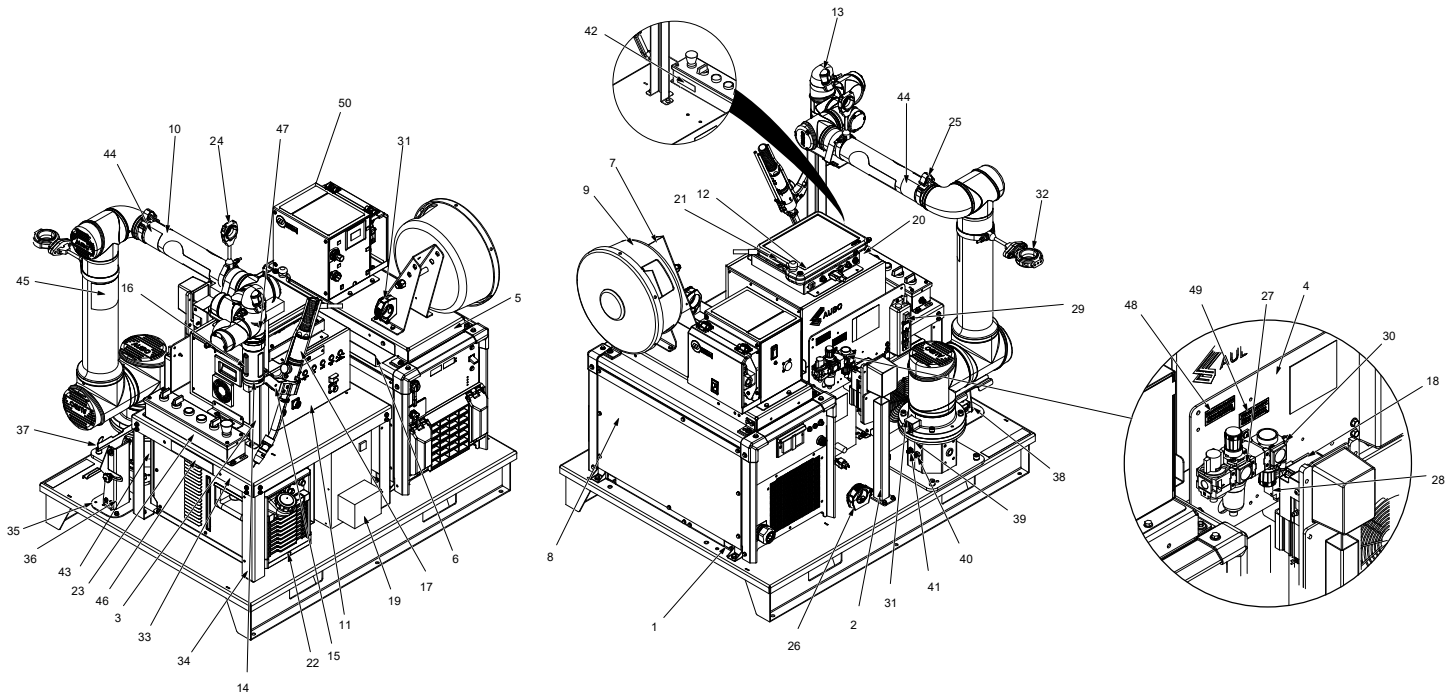
Copilot Builder

Effective with Serial Number
NF117077U - ZZ222222R



PARTS MANUAL

Main Assembly



Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		298437	Base, Copallet	1
2		298441	Bracket, Wire Cutter	1
3		298534	Bracket, Shipping	1
4		298533	Mounting Plate (With Pem Nuts)	1
5		298532	Feeder Base & Spool Mount w/Pem Nuts	1
6		298529	Bracket, Cable Support	1
7		200556	Support, Spool	1
8		907863	Auto Deltaweld 500 208-230/460V	1
8		907864	Auto Deltaweld 500 575V	1
8		907862	Auto Deltaweld 350 Amp 208-230/460V	1
8		907878	Auto Deltaweld 350 Amp 575V	1
9		295231	Cover, Spool 12 In Assy Lh	1
10		293847	Collaborative Robot (Aubo I10)	1
11		293849	Cobot Control Box 110Vac	1
12		296872	Pendant, Teach w/Built In Cable	1
13		298649	Accuguide	1
14		59D09	Insulating Disc Assembly MWA Button Housing	1
15		AS-306-294-2	Gun Mount Assembly	1
16		293165	Torch Puck Assembly	1
17		1A12DBASD0EM	Tough Gun CA3 Robotic Air-Cooled Without Water Cooling	1
17		1A12LBASD0EM	Tough Gun CA3 Robotic A/C Torch With Water Cooling Option	1
18		WC-400C	Wire Cutter, Cobot Application	1
19		~ 297861	115V, Arc Sense Unit With Seam Tracking Option	1
20		297831	Copilot, Deltaweld Top Hat Assmbly	1
21		297913	Cover, Top Hat Assembly	1
22		~ 301617	Coolmate 1.3 115V Quick Conn Ce With Water Cooling Option	1
23		298657	Op Station Assembly	1
24		293621	Cable Support Assembly	1
25		293234	Bracket, Velco Cobot	1
26		298566	Gripping Clamp	2
27		297222	Pilot Air Flr Package 20	1
28		297223	Solenoid Asm Wire Brake	1
29		297297	Drilled 3-Outlet Power Strip	1
30		297442	1/4" Air Line, Weld-Spatter Resistant 3.25"	1
31		298645	Diffuser, Cobot Riser Led Disc	1
32		298652	Cable Support Assembly	1
33		298438	Table Top, Fabrication	1
34		298439	Leg, With Pem Nuts	4
35		298536	Bracket Assy, Teach Pendant	1
36		298537	Bracket, Formed Sheet W/Pem Nuts	1
37		296382	Bracket, Teach Pendant	1
38		298538	Manual Magnet (150 Lbs)	1
39		298349	Robot Riser	1

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

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Main Assembly

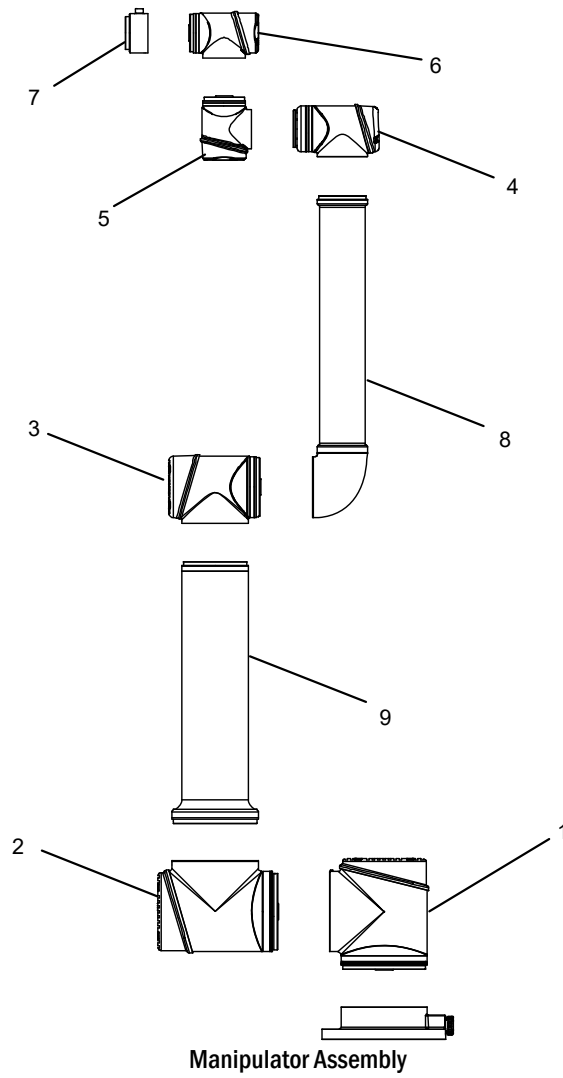
Item No.	Dia. Mkgs.	Part No.	Description	Qty
40		298432	Bulkhead Union, 1/4" Push Lock	1
41		298433	M12 8 Pin Female Bulkhead	1
42		294183	Label, QR Code Cobot	1
43		298611	Label, Light Stack	2
44		298625	Label, Warning Lift Strap	2
45		293016	Label, Warning Hot Surfaces/Moving Parts (En/Fr/Sp)	1
46		298651	Label, Notice Do Not Operate Robot On Pallet	2
47		294191	Label, Warning General Precautionary (En/Fr/Sp)	1
48		297296	Sticker, Wire Cutter Input	1
49		297295	Sticker, Wire Brake Input	1
50		301881	Auto Deltaweld Basic Fixed Wire Drive With 14 Pin	1

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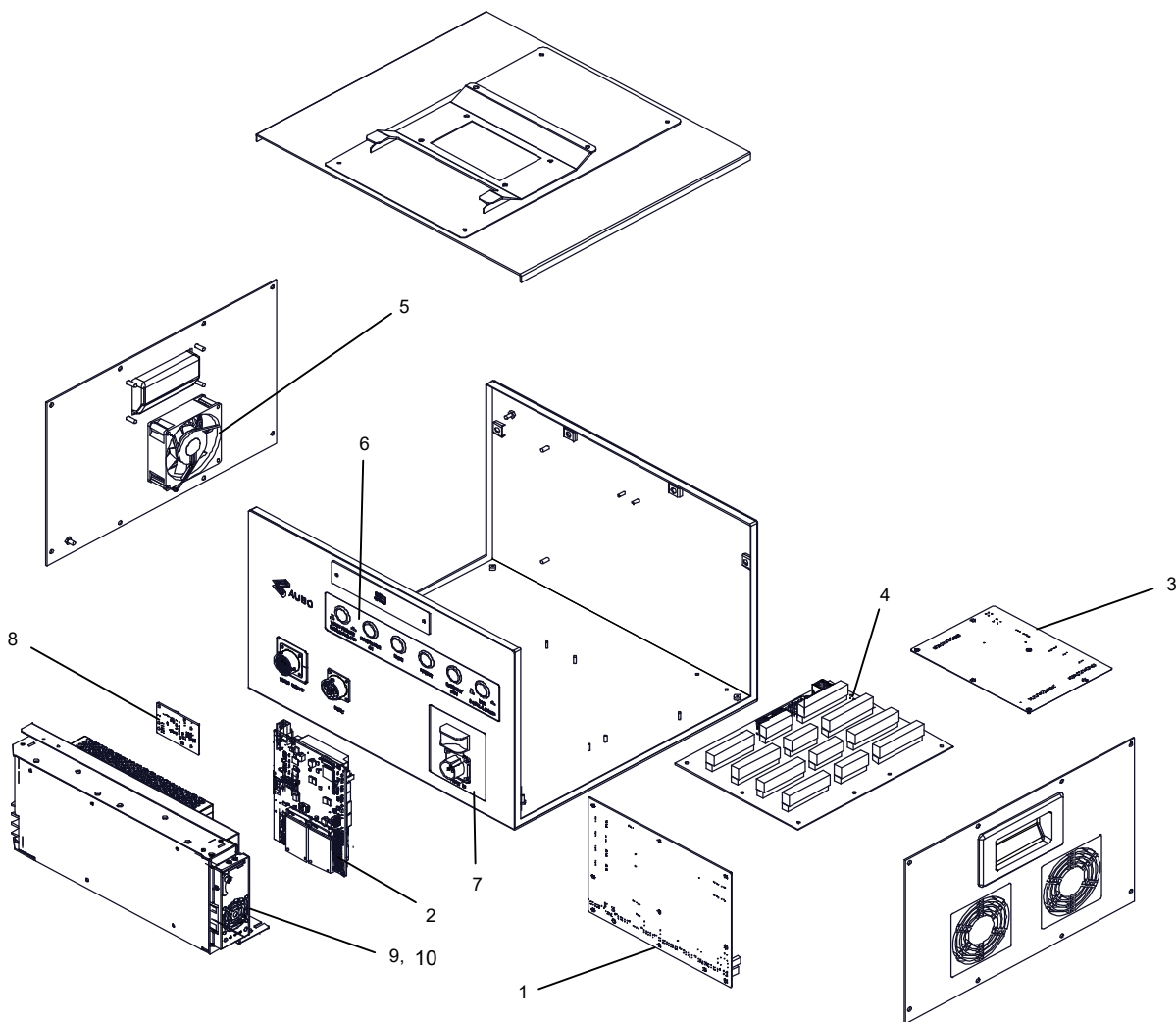
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		293862	Joint 1, i10 Module 32	1
2		293863	Joint 2, i10 Module 32	1
3		293864	Joint 3, i10 Module 25	1
4		293865	Joint 4, i10 Module 17	1
5		293866	Joint 5, i10 Module 14	1
6		293867	Joint 6, i10 Module 14	1
7		293868	Mount, Tool End Plate w/IO Plug	1
		293516	Cable, Manipulator To Controller	1
8		293873	Arm, Upper i10	1
9		293874	Arm, Lower i10	1

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Control Box Assembly

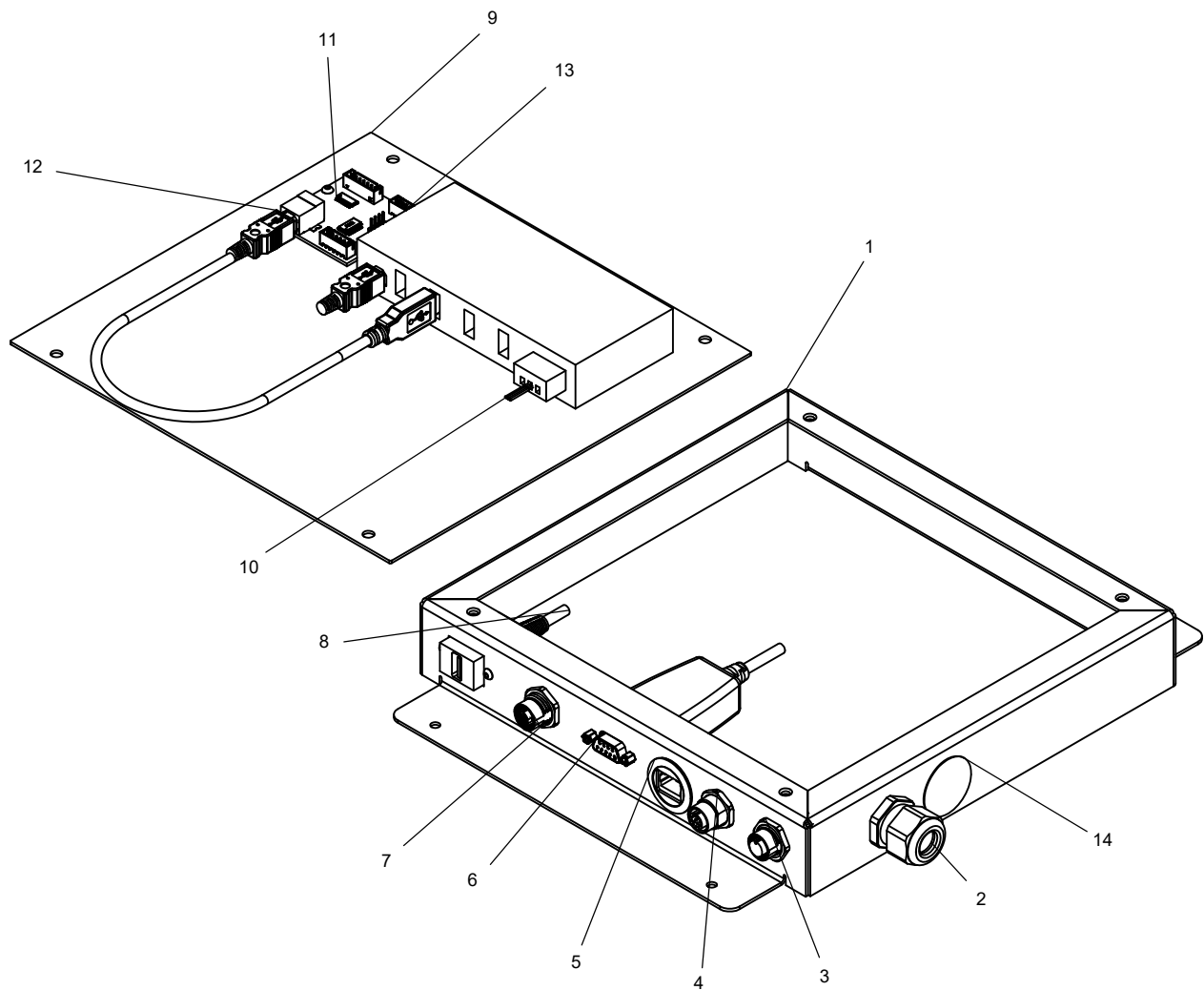
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		293869	Circuit Card Assy, Interface	1
2		293870	Circuit Card Assy, Control	1
3		293871	Circuit Card Assy, Extension IO	1
4		293872	Circuit Card Assy, User IO	1
5		294752	Fan, Cooling Side Panel	1
6		294756	Panel, Front Control Switch Status Light	1
7		293753	Kit, Service Connector (281475)	1
8		294751	Board, Differential Vga	1
9		294749	Power Supply, 48Vdc	1
10		294750	Power Supply, 12/24 Vdc	1

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Controller Top Hat Assembly

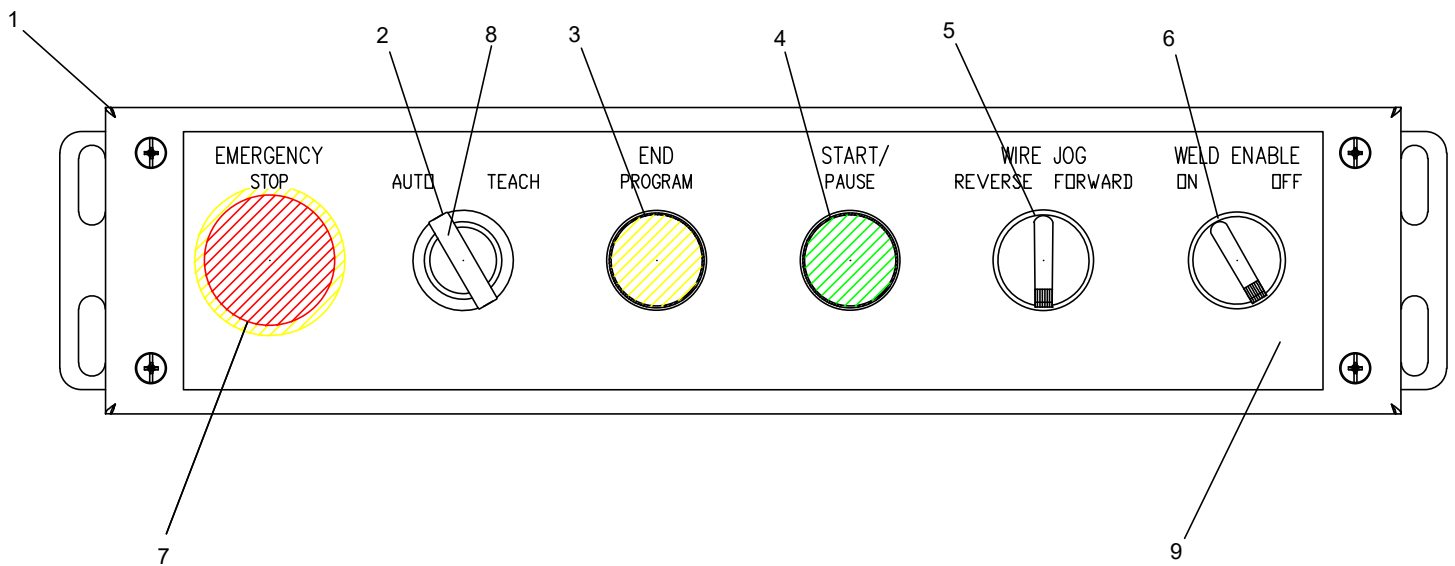
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		296443	Enclosure, Top Hat	1
2		295913	Strain Relief, 1/2 In Npt (Used For Wire Brake/Wire Clipper/Waterflow Switch)	1
3		293139	M12 8 Pin Bulkhead Conn (Used For Signal Tower)	1
4		293138	Connector, w/Leads Female 12Pin (Used For Torch Puck)	1
5		296446	Bulkhead Rj45 Cat.6, 0.5M Cable (Used For Welder Interface)	1
6		293150	Conn, Skt Female To Female 9 Pin (Used For Accuguide)	1
7		293300	M12 17 Pin F Bulkhead Connector (Used For Op Station)	1
8		293141	Cable, Usb 2.0 Type A Male/Type A Female 2 Ft	1
9		293210	Cover, Top	1
9		~ 297697	Cover, Top With Seam Tracking Option	1
10		~ 297832	Cable, Sync Signals Usb Hub Pwr With Seam Tracking Option	1
11		~ 297200	Circuit Assy, Seam Tracking With Seam Tracking Option	1
12		~ 297699	Cable, Usb Type-A To Usb Type-B 2.0 1.5Ft With Seam Tracking Option	2
13		~ 297695	Hub, 4-Port Industrial-Grade Usb 2.0 - 15 Kv With Seam Tracking Option	1
14		297854	Hole Plug,Eva/Ldpe, Black, Hole Size, 0.99-1.02 In	1

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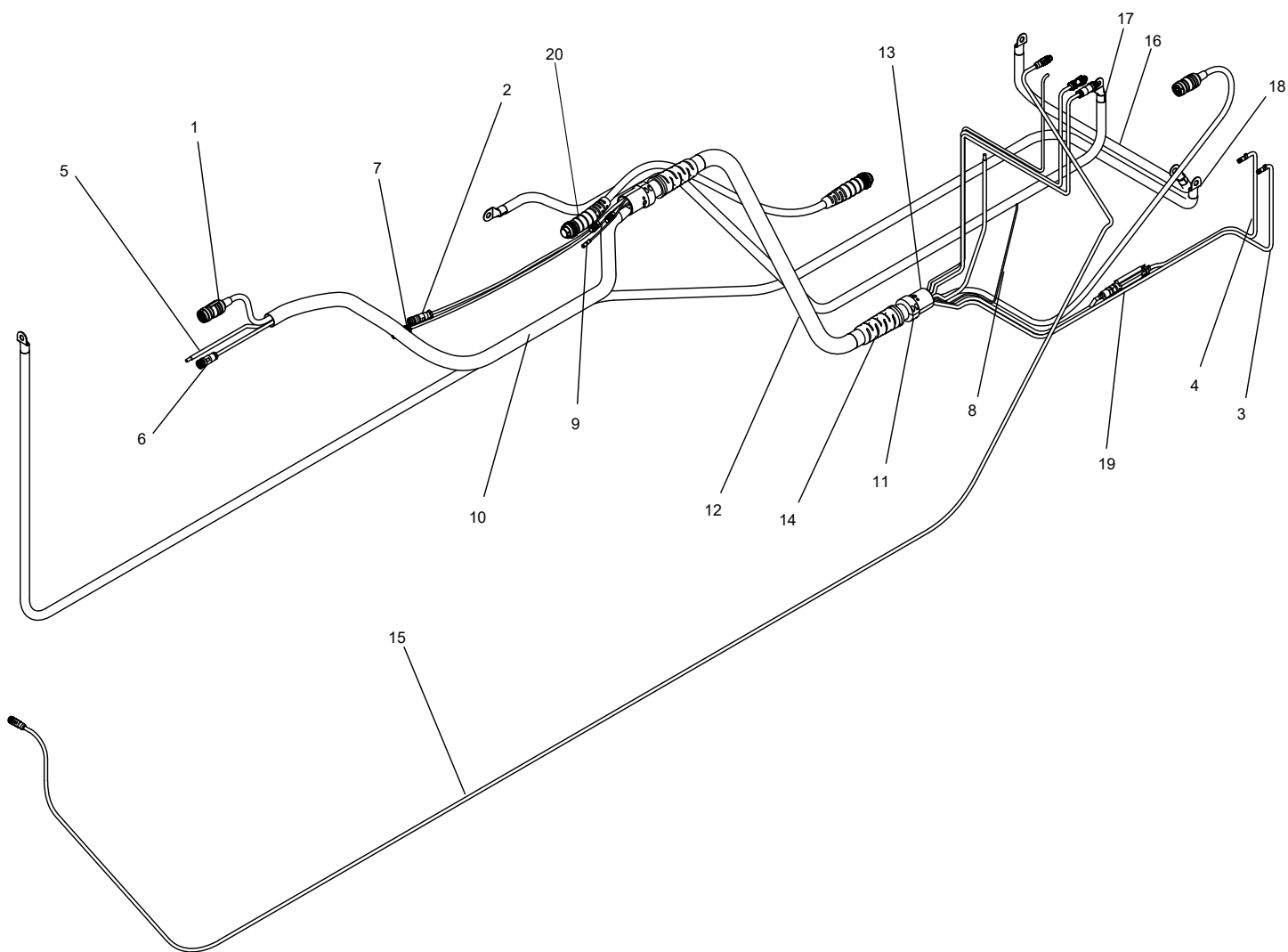
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Operator Box Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		298656	Enclosure, 6 Pushbutton (22.5mm), Connector Hole Added	1
2		293130	22.5 mm Metal 2 Pos Key Selector Switch, Non-Illuminated	1
3		293133	22.5 Metal Operator Yellow Extended Mount PB	1
4		293134	22.5 Metal Operator Green Flush Mount PB	1
5		293135	22.5mm Metal 3 Pos. Selector Switch, Return to Center	1
6		293136	22.5mm Metal 2 Pos. Selector Switch, Non-Illuminated	1
7		293127	22.5 Metal Operator 40mm Mushroom Head Red	1
8		298826	Key, Copilot Op Box Master Pair	1
9		293022	Label, Control Plate Cobot	1

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Cable Set Assembly 5m

Cable Set Assembly 5m

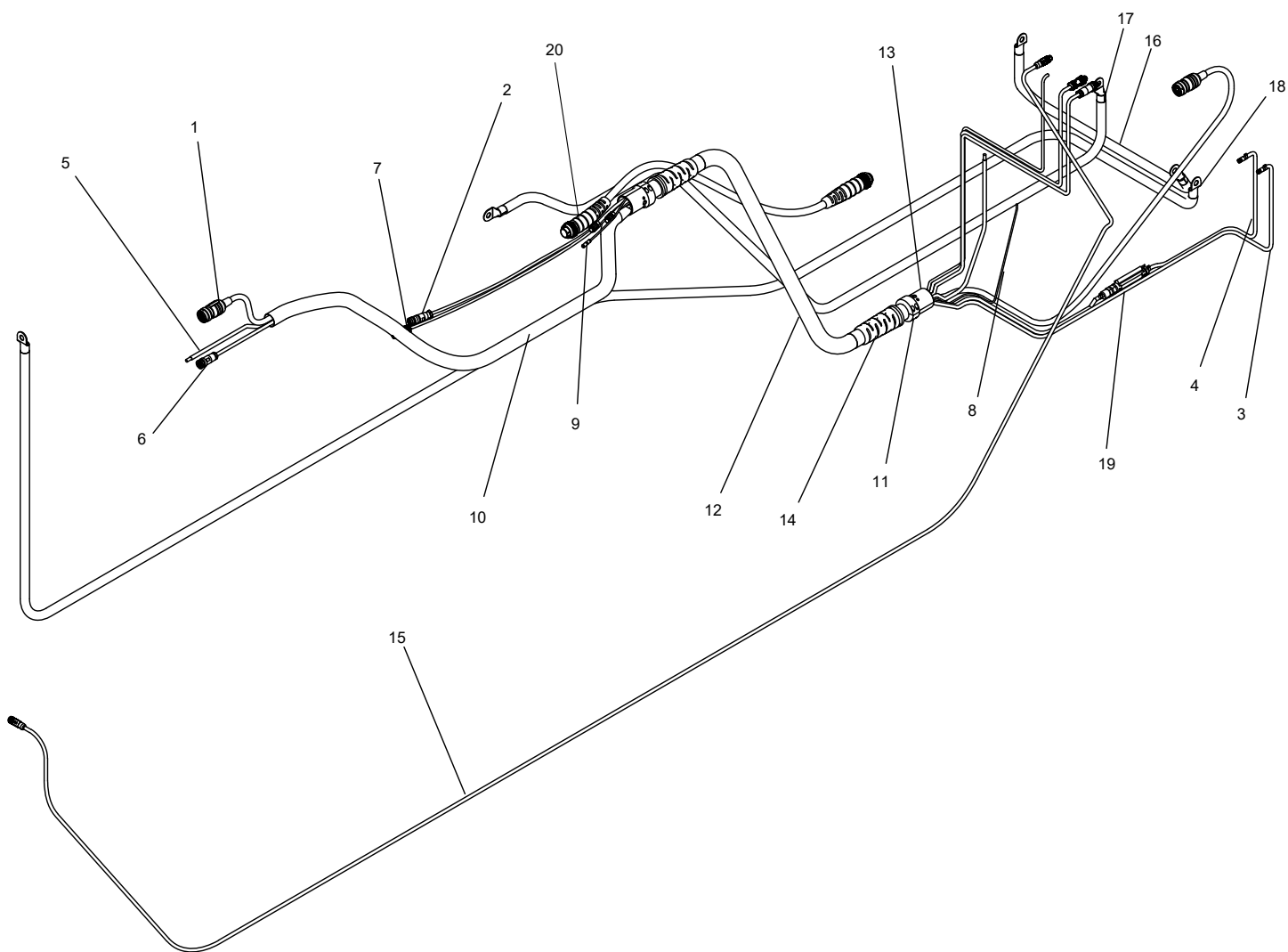
Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		293516	Cable, Manipulator To Controller	1
2		298629	Cable, Torch Puck 5m Extension	1
3		298458	Hose, Water Line, Blue 5m Extension	1
4		298457	Hose, Water Line, Red 5m Extension	1
5		298453	Air Line, 1/4" Tubing, Spatter Resistant, Wire Clip 5m Extension	1
6		298628	Cable, Signal Tower (LED Light/Wire Clipper) 5m Extension	1
7		298627	Cable, Joystick (Accuguide) 5m Extension	1
8		298456	Air Line, 1/8" Tubing, Wire Brake 5m Extension, Assembly	1
9		298630	Air Fitting, 1/8" Pushlock, Union	1
10		BWC-4-5	Weldcraft Cover, Cable, 5ft (1.5m), with Zipper	2
11		298304	Inside Clamp, Bottom	2
12		298388	Cover, Cable, CSM (Coated Nylon) with Velcro, 5m Extension	1
13		298305	Inside Clamp, Top (Counter Bore Thru-Holes and Cable Tie Holes)	2
14		M1640	Strain Relief	2
15		298643	Op Box Cable Assy, 12m Male to Female 17 Pin 16 ft	1
16		277892	Cable, Weld No 4/0 Blk w/Ring Term 3ft	1
17		235119	Cable, Weld 10ft 4/0 w/Terms	1
18		158468	Cable, Weld 26 Ft 4/0 w/Terms	1
19		296901	Assy, Water Flow Switch	1
20		280471009	Arconnect Control Cable 9ft	1

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Cable Set Assembly 8m

Cable Set Assembly 8m

Item No.	Dia. Mkgs.	Part No.	Description	Qty
1		298741	Cable, Manipulator To Controller	1
2		298661	Cable, Torch Puck 8m Extension	1
3		298662	Hose, Water Line, Blue 8m Extension	1
4		298663	Hose, Water Line, Red 8m Extension	1
5		298664	Air Line, 1/4" Tubing, Spatter Resistant, Wire Clip 8m Extension	1
6		298665	Cable, Signal Tower 8m Extension	1
7		298666	Cable, Joystick (Accuguide) 8m Extension	1
8		298667	Air Line, 1/8" Tubing, Wire Brake 8m Extension	1
9		298630	Air Fitting, 1/8" Pushlock, Union	1
10		BWC-4-5	Weldcraft Cover, Cable, 5ft (1.5m), with Zipper	2
11		298304	Inside Clamp, Bottom	2
12		298688	Oil Line, 3/4" Motor Pressure Steel	1
13		298305	Inside Clamp, Top (Counter Bore Thru-Holes and Cable Tie Holes)	2
14		M1640	Strain Relief	2
15		298643	Op Box Cable Assy, 12m Male to Female 17 Pin 16 ft	1
16		277892	Cable, Weld No 4/0 Blk w/Ring Term 3ft	1
17		158468	Cable, Weld 26 Ft 4/0 w/Terms	1
18		230567	Cable, Weld 34 Ft 4/0 w/Terms	1
19		296901	Assy, Water Flow Switch	1
20		280471025	Arcconnect Control Cable 25ft	1

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