



PM-291865A

2023-05

Processes



MIG (GMAW) Welding
Pulsed MIG (GMAW-P Welding)

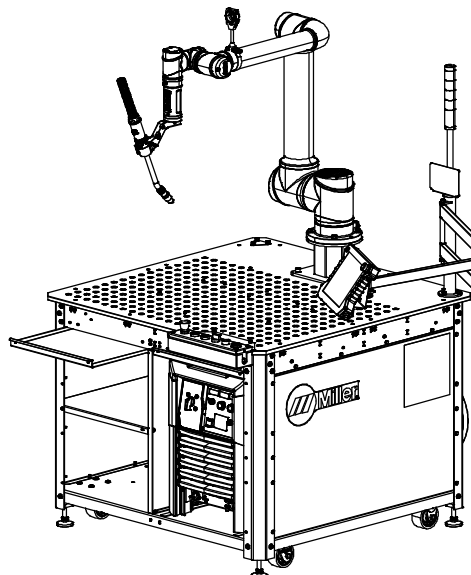
Description



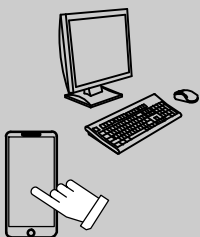
Collaborative Robotic Welding System

CopilotTM Collaborative Welding System

Eff w/Serial No. ND000001 And Following



PARTS MANUAL



For product information,
Owner's Manual translations,
and more, visit

www.MillerWelds.com

SECTION 1 – PARTS LIST

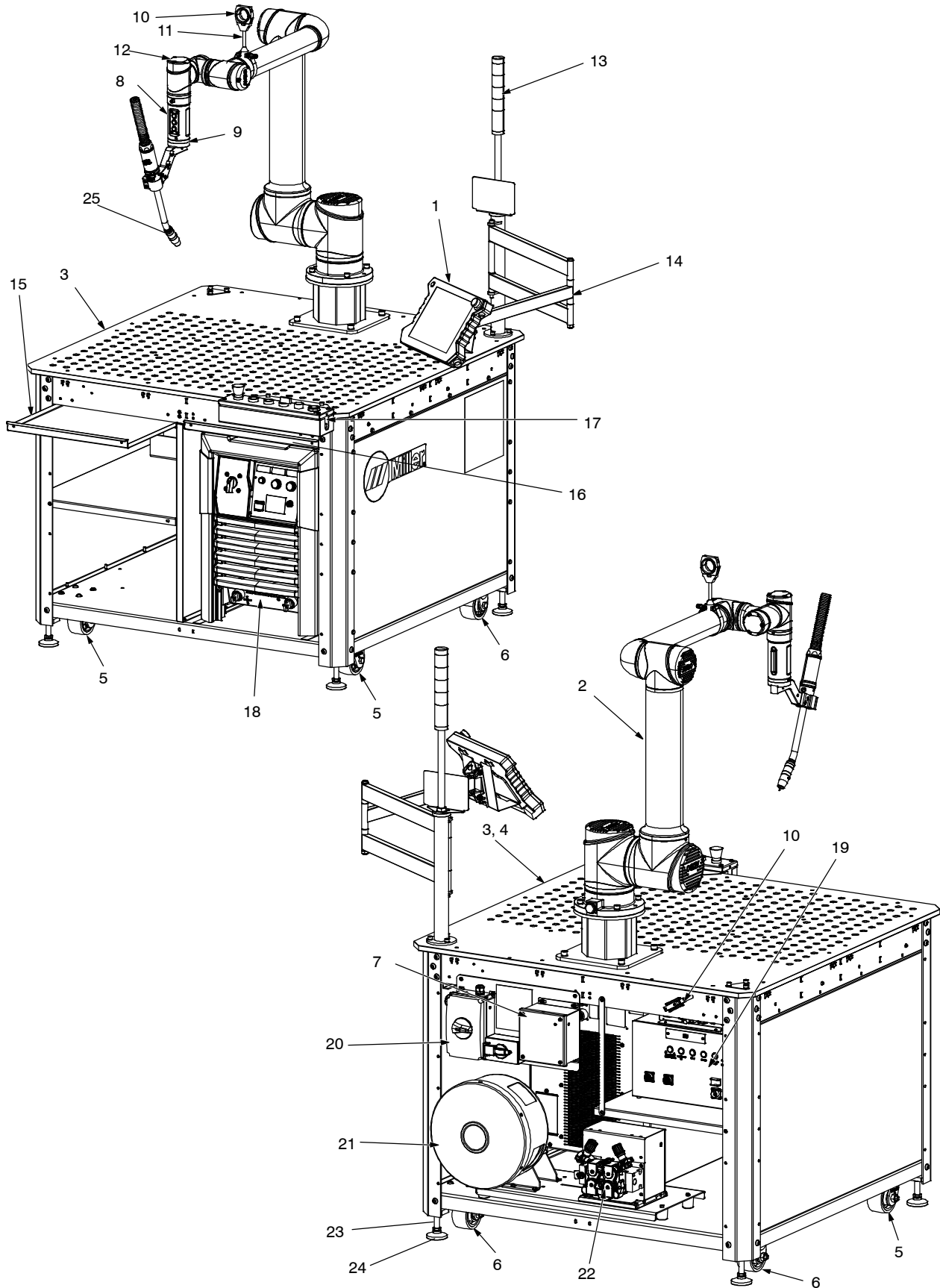


Figure 1-1. Main Assembly

Eff w/Serial No. ND000001 And Following

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
Figure 1-1. Main Assembly				
1		293519	Pendant, Teach (See Figure 1-4)	1
2		293087	Arm Assy, Cobot (See Figure 1-2)	1
		276508	Cable, PLC To Controller 3M	1
3		293061	Table, Top Assembly	1
4		293062	Table, Top Clip/Fastener Rhino	1
		293063	Table, Adapter Plier	1
5		293065	Caster, Swvl Standard Duty Kingpinless	2
6		293066	Caster, Rigid Standard Duty	2
7		293073	PLC Module P1-540	1
8		293165	Torch Puck Assembly (Includes)	1
		293914	Puck Cable Assy	1
		293081	Cable Assy, 12m 17pin Op Station To Controller	1
9		59D09	Insulating Disc Assembly MWA Button Housing	1
10		293233	Bracket, Pass Through	2
		293234	Bracket, Velco Cobot	2
11		293235	Bracket, Cable Upper Arm	1
12		293092	Module, Joy Stick	1
13		293164	Light, Tower Assembly	1
14		293068	Mount, Forging TV	1
15		293198	Tray, Spatter Left	1
16		293199	Tray, Spatter Right	1
17		293166	Op Station Assembly	1
18		907656003	Auto-Continuum 350 Cobot	1
19		293849	Cobot Control Box 110VAC (See Figure 1-3)	1
20		293777	Assembly, Disconnect	1
21		057607	Cover, Spool 12 In (Left Side/Single Or Dual)	1
22		301207	Auto-Continuum Drive CE (Left)	1
23		293203	Rod, Threaded 5/8 X 3.750 Stl	1
24		293067	Mount, Leveling Nickel Plated Stl	1
25		RA12DAASD0EM	Tough Gun CA3 Robotic Air-Cooled	1
		405-22QCL-70	Torch Neck	1
		401-81-62	Nozzle	1
		TA045CH	Contact Tip	1
		D-ATSH	Diffuser	1
		415-35-15Q-1	Liner	1

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.

Eff w/Serial No. ND000001 And Following

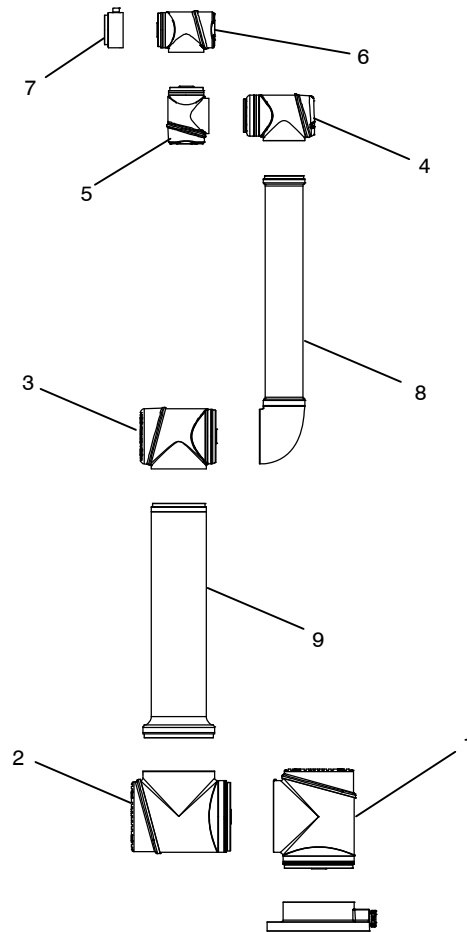


Figure 1-2. Manipulator Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
Figure 1-2. Manipulator Assembly				
.. 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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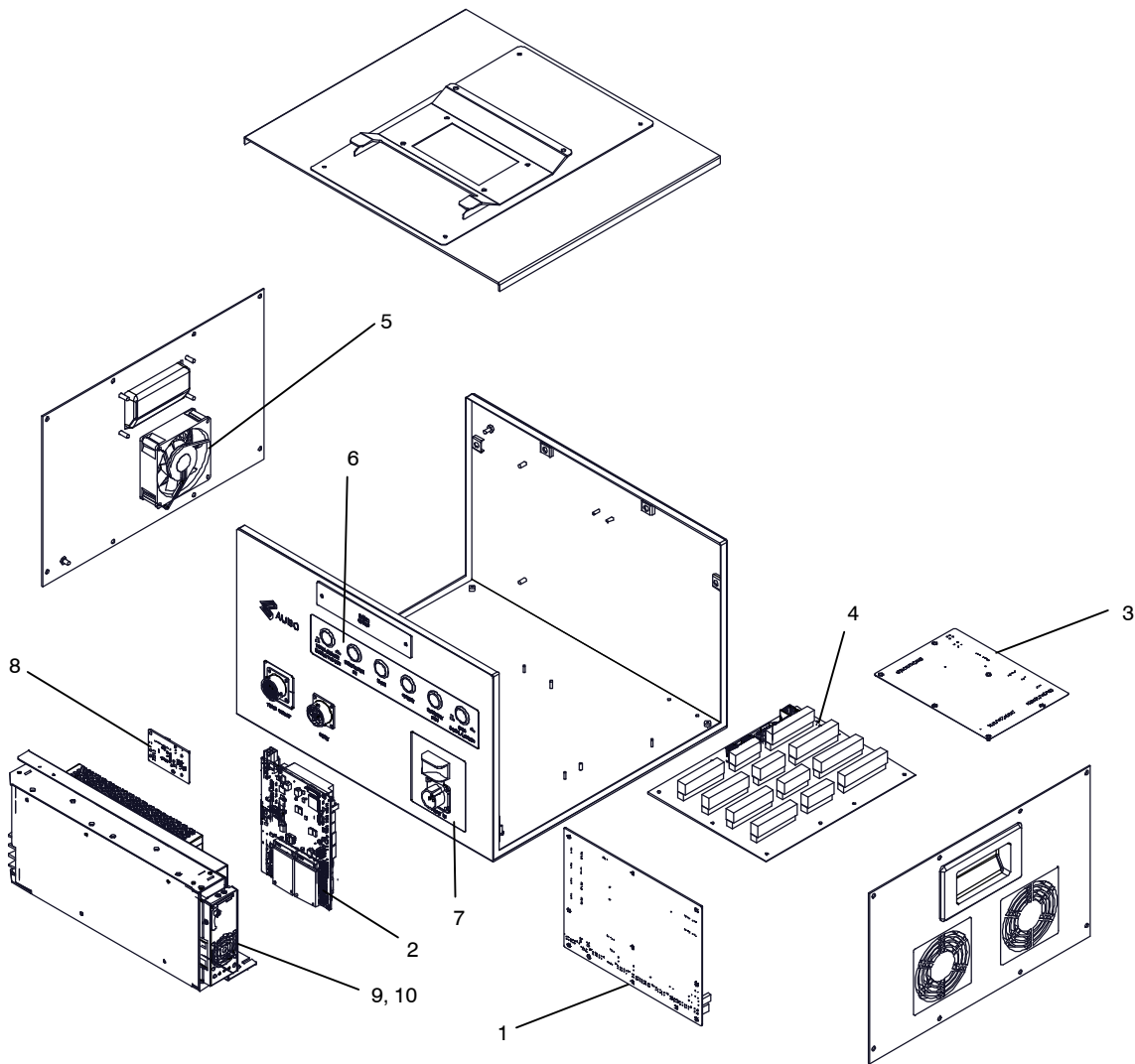


Figure 1-3. Control Box Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
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Figure 1-3. Control Box Assembly

.. 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 ..	Plug Assy, Harness Aviation Xs2 ..	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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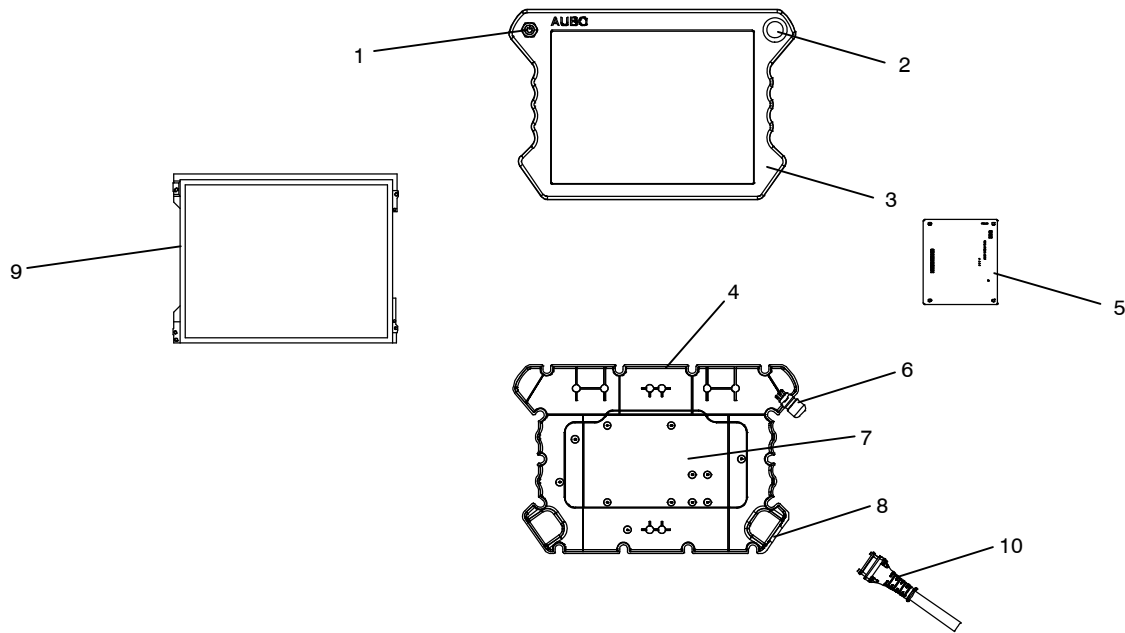


Figure 1-4. Teach Pendant Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
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Figure 1-4. Teach Pendant Assembly

.. 1	294764	..	Button, Power Module	1
.. 2	294760	..	Button, Push E-Stop Module	1
.. 3	293523	..	Frame, Teach Pendant Miller Logo (Includes)	1
.. 4	294762		Cover, Lower Teach Pendant	1
.. 5	294759	..	Board, Differential Vga	1
.. 6	294763	..	Button, Enable Module	1
.. 7	294758	..	Touch Screen, Driver Board	1
.. 8	294768	..	Connector, Assembly Torch Puck	1
.. 9	294757	..	Touch Screen, Module	1
.. 10	293518	..	Cable, Teach Pendant Control Box	1

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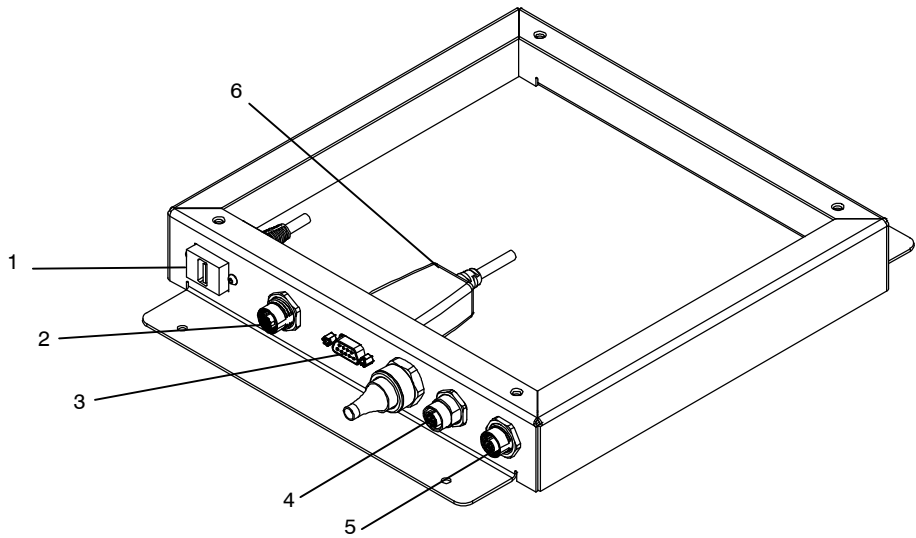


Figure 1-5. Controller Top Hat Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
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Figure 1-5. Controller Top Hat Assembly

.. 1	293141	..	Cable, Usb 2.0 Type A Male/Type A Female 2 Ft	1
.. 2	294055	..	Connector, Assembly Op Station	1
.. 3	293150	..	Conn, Skt Female To Female 9 Pin	1
.. 4	294056	..	Connector, Assembly Torch Puck	1
.. 5	294054	..	Connector, Assembly Light Tower	1
.. 6	293809	..	Assembly, Cable Cobot To Plc	1

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