



SERVICE PARTS LIST

BULLETIN NO.
PN0007993

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS				REVISED BULLETIN	DATE
M12™ Wireless Monitor (Borescope Pipeline Viewer)					July 2025
CATALOG NO.	3971-20	SERIAL NO.	P39A	WIRING INSTRUCTION See Page 2	

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	31-15-0242	Sunshade	(1)	53	14-46-0391	Strap Kit	(1)
2	-----	Handle Support	(1)	54	14-46-0389	Speaker Kit	(1)
3	-----	Spring	(2)	55	14-46-0388	Camera Connector Kit	(1)
4	-----	Detent Ball	(2)	56	14-38-0193	Battery Housing Kit	(1)
5	-----	Pin	(2)	57	14-20-0318	Electronics Assembly	(1)
6	-----	Power Button	(1)	58	48-53-3315	10mm 4 FT Camera Module Kit (Accessory)	(1)
7	-----	Screen Gasket	(1)	59	48-53-3316	10mm 10 FT Camera Module Kit (Accessory)	(1)
8	44-06-0097	LCD	(1)	65	48-53-3151	5mm 5 FT Replacement Cable (Not Shown, Accessory)	(1)
9	-----	LCD Screen Holder	(1)				
10	06-82-1087	M3 x 12mm Screw	(4)				
11	06-82-0027	M3 x 7mm Pan Head T-10 B Screw	(21)				
12	-----	PCBA	(1)				
13	-----	Speaker Cover	(1)				
14	31-15-0243	Rubber Cover - USB Connector	(1)				
15	06-82-6351	M3 x 16mm Pan Hd Torx T-10 Screw	(15)				
16	-----	Handle Cover	(1)				
17	-----	Strap Pin Block	(2)				
18	-----	Silicone Strap	(2)				
19	05-89-0100	M3 x 7mm Hexagon M Screw	(2)				
20	06-82-1076	M4 x 16mm Pan Hd Torx T-20 B Screw	(1)				
21	-----	Flat Washer	(1)				
22	-----	Camera Connector Assy-Female	(1)				
23	31-15-0244	Cap for Camera Connector	(1)				
25	05-81-0005	M3 x 11mm T-10 Taptite Screw	(1)				
26	-----	Main Battery Interface	(1)				
27	-----	O-Ring	(1)				
28	-----	Rubber Seal for Terminal	(1)				
29	-----	Terminal Block Assy	(1)				
30	-----	Strap Pin	(2)				
32	-----	Foam Speaker Pad	(1)				
33	-----	Ferrite Core	(1)				
35	-----	Screen Label	(1)				

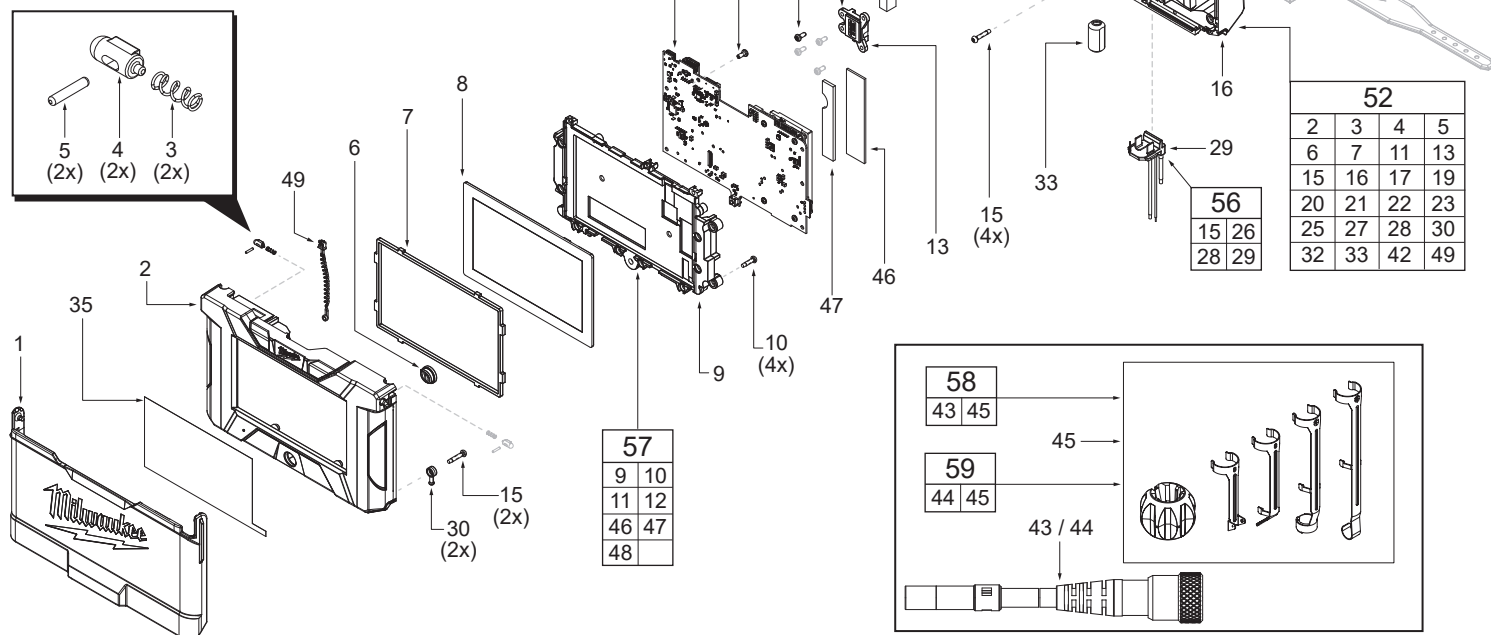
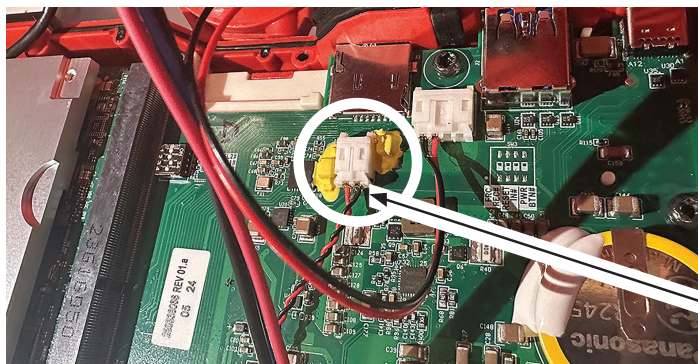


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
36	12-20-0914	Service Nameplate (Not Shown)	(1)
39	45-96-0290	Hexagon Wrench 2.5mm (Not Shown)	(1)
41	42-44-0715	6 FT USB C to USB C Cable (Not Shown)	(1)
42	-----	Speaker	(1)
43	-----	10mm 4 FT Camera Module	(1)
44	-----	10mm 10 FT Camera Module	(1)
45	14-38-0454	10mm Camera Head Accessory	(1)
46	-----	Big Thermal Pad	(1)
47	-----	Small Thermal Pad	(1)
48	-----	SD Card	(1)
49	-----	Microphone Assy	(1)
48	-----	SD Card	(1)
49	-----	Microphone Assy	(1)
52	14-38-0191	Housing Kit	(1)

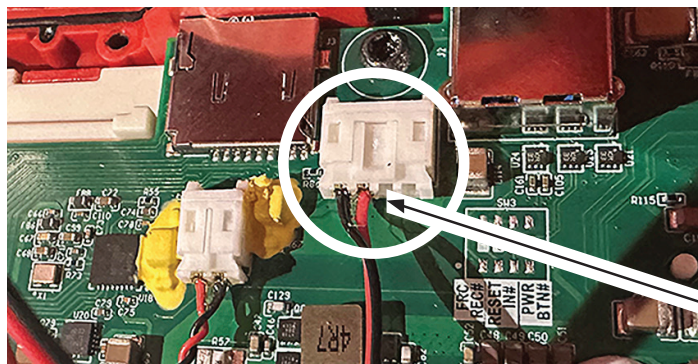
EXAMPLE:
Component Parts (Small #) Are Included
When Ordering The Assembly (Large #).

FIG. 36 SERVICE NOTES
A clean, dry surface is essential for proper performance for any adhesive system. The area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.

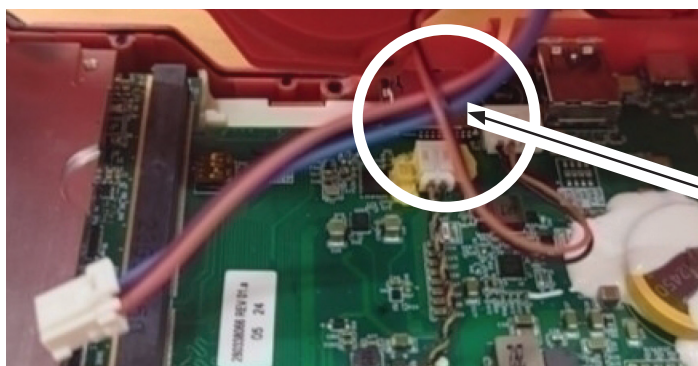
WIRING INSTRUCTIONS



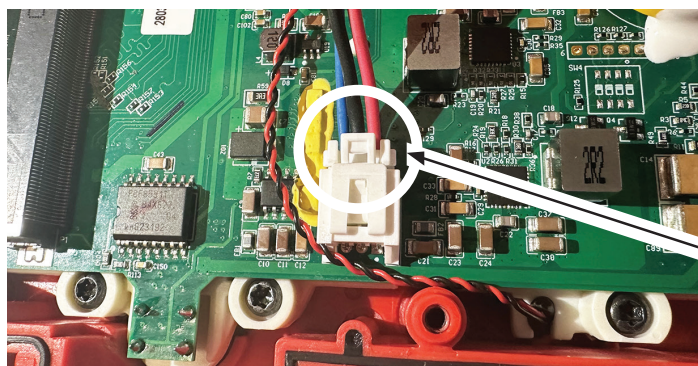
- 1) Plug the **Microphone Terminal** into the microphone socket.



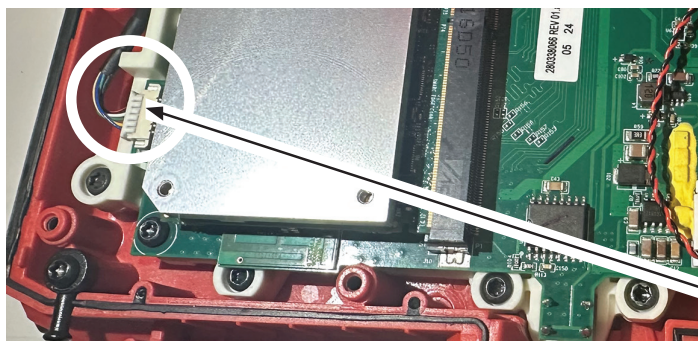
- 2) Plug the **Speaker Terminal** into the speaker socket.



- 3) Make sure the **Battery Terminal Block Wire** goes **under** the **Speaker Wire**. (This ensures the wires will not get caught in the screw area.)



- 4) Plug the **Battery Terminal** into the battery socket.



- 5) Plug the **Cable Terminal** into the cable socket. Clamp the camera wire into the housing bone to avoid the screw bosses.

WARNING

- Take notice of wire routing and position in wire guides and traps while dismantling tool.
- Be sure that all components of the electronics kit are seated firmly and squarely in housing recesses.
- Avoid pinched wires, be sure all wires and sleeves are pressed completely down in wire guides and traps.
- Prior to installing housing cover onto handle support, be sure that there are no interferences.
- Be sure to check for C functionality of switches and buttons after housing halves have been secured.

SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	DESCRIPTION OF FASTENER	QTY	WHERE USED	SEAT TORQUE	
					(kgf-cm)	(lb-in)
10	06-82-1087	M3 x 12mm Screw	4	LCD Screen Holder	9 ± 1	9 ± 1
11	06-82-0027	M3 x 7mm Pan Head T-10 B Screw	11	LCD Screen Holder	4 ± 1	3 ± 1
			4	Speaker Cover	4 ± 1	3 ± 1
			6	PCBA	6 ± 1	5 ± 1
15	06-82-6351	M3 x 16mm Pan Hd Torx T-10 Screw	9	Handle Cover	9 ± 1	8 ± 1
			4	Main Battery Interface	9 ± 1	8 ± 1
			2	Strap Pin	9 ± 1	8 ± 1
19	05-89-0100	M3 x 7mm Hexagon M Screw	2	Strap	4 ± 1	3 ± 1
20	06-82-1076	M4 x 16mm Pan Hd Torx T-20 B Screw	1	Camera Connector Assy-Female	12 ± 1	10 ± 1
25	05-81-0005	M3 x 11mm T-10 Taptite Screw	1	Handle Cover	6 ± 1	5 ± 1