DIY PROJECT #4

FLEX 6400/6600 Radio or Maestro to Plantronics W720 Interface

P/N 4000-0057 Rev-B

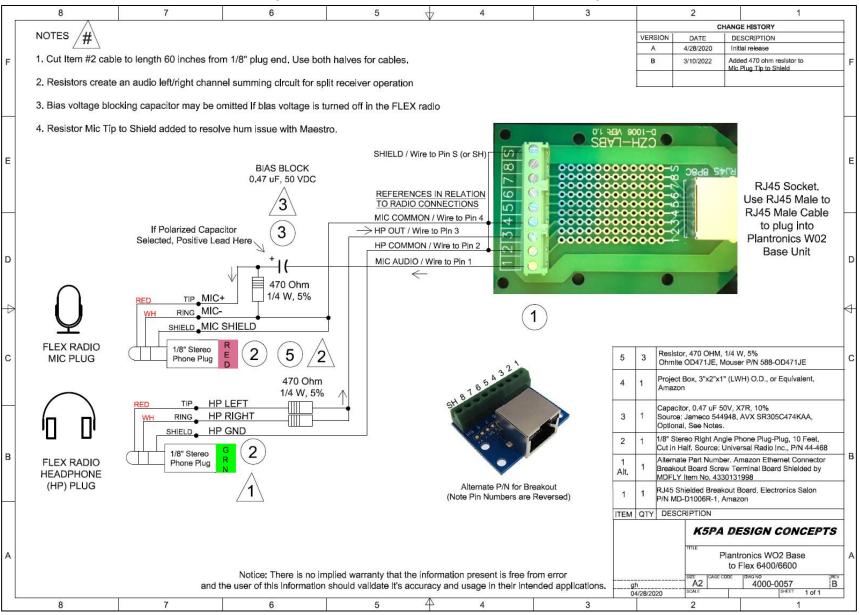
Gene Hinkle, K5PA 4/29/2020 Updated 3/10/2022

Also Check Out the CS520/W720 Resource Page

https://cs520hams.k5pa.com

4/29/2020, 3/10/2022 Revised

Schematic Diagram FLEX 6400-6600 to Plantronics W720 Wireless Headset (P/N 4000-0057 Rev-B)

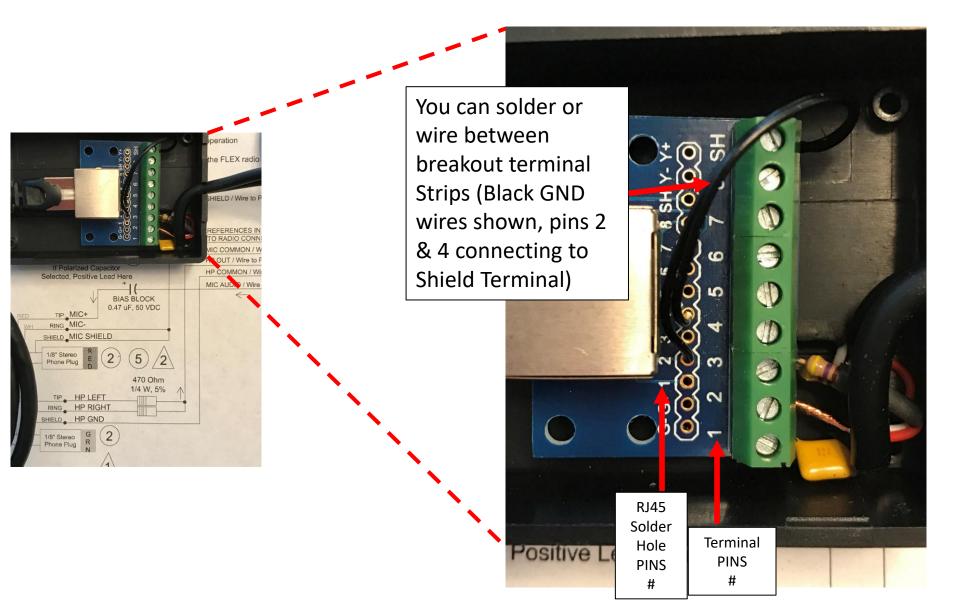


^{4/29/2020, 3/10/2022} Revised

Bill of Materials 4000-0057 Rev-B

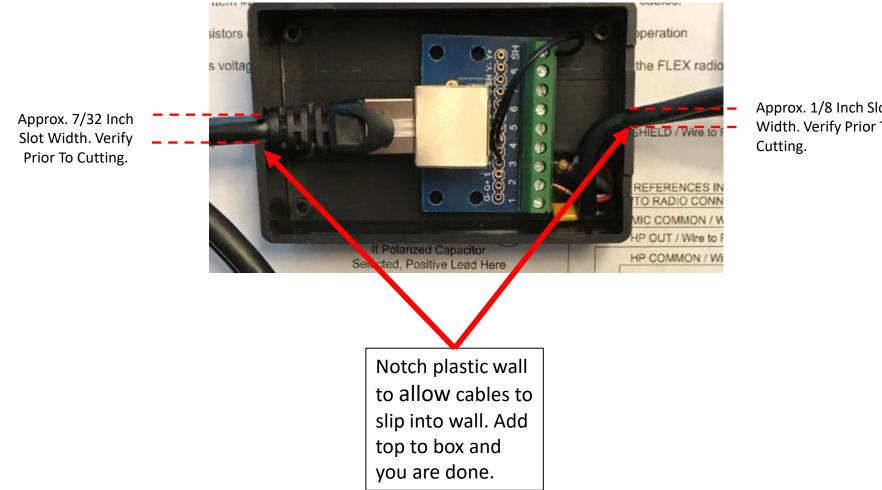
	4/30/2020 updated 3/10/2022								
Bill of Materials Drawing 4000-0057 Rev B			FLEX 6400/6600 to Plantronics W720						
ltem	Part No.	Part Description	Mfgr	Part No.	Vendor	URL of Vendor P/N	Qty	ltem Cost	Exten Cos
1	4000-0057	RJ45 Shielded Breakout Board. Electronics Salon	Electronics Salon	43237-2	Amazon	RJ45 8P8C Jack	1	\$ 8.99	\$
1 Alternate	4000-0057	Ethernet Connector Breadout Board Screw Terminal Board Shielded	MDFLY	4330131998	Amazon	MDFLY Breakout	1	\$ 3.89	\$
2	4000-0057	Mini to mini 3 cond cbl, 6 ft. (cut and discard both ends, need cable only for Foster cable)	Philmore		Univ. Radio Inc. (http://www.univers al-radio.com/)	<u>4103</u>	2	\$ 3.99	\$
3	4000-0057	0.47 uF 50V, X7R, 10%	AVX	SR305C474KAA	Mouser	<u>581-SR305C474KAA</u>	1	\$ 0.99	\$ (
4	4000-0057	Project Box, Plastic Enclosure, Black, 3"x2"x1" (LWH) O.D., (OR EQUIVALENT)			Amazon		1		\$
5	4000-0057	Resistor, 470 Ohms, 1/4W, 5%	Ohmite	OD471JE	Mouser	<u>588-OD471JE</u>	3	\$ 0.65	1
6	4000-0057	C2G/Cables to Go 28690 Cat5E Molded Shielded (STP) Network Patch Cable, Black (3 Feet/0.91 Meters) (OR EQUIVALENT)	C2G/Cables to Go	28690	Amazon	<u>28690</u>	1	\$ 5.65	\$
12020 2/1	L0/2022 Re	vicod				Quantity 1 Kits			\$ 29

RJ45 Breakout For Making Connections in Box



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RJ45 Breakout For Making Connections in Box



Approx. 1/8 Inch Slot Width. Verify Prior To

Connectivity Between Radio to Headset

AC/DC 9 V Adapter RJ45 Audio Mini-USB Sound Card



Free end connects to MIC (RED) and Headphone (HP)(GREEN) Connectors on Rear of FLEX

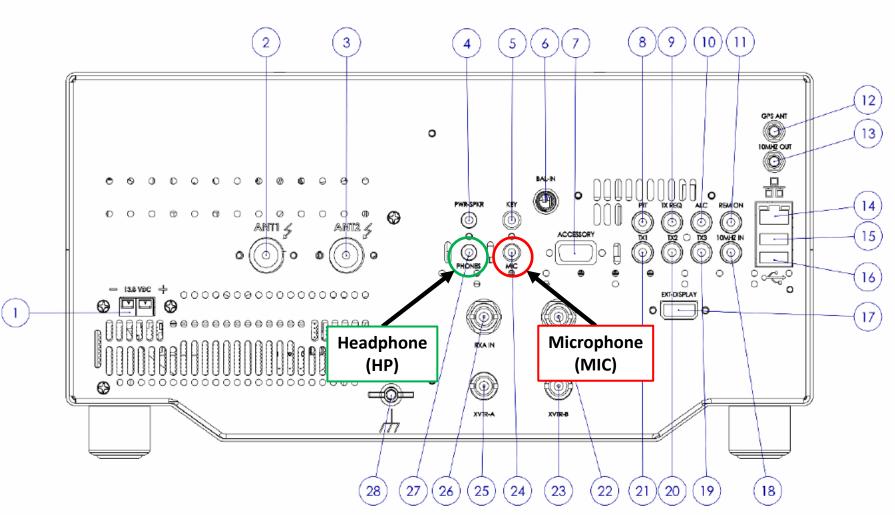
Plug Into W720 Base (Shown as a Blue Cable in Photo)



FLEX 6400/6600 Rear Connections

FLEX-6400/FLEX-6600 Hardware Reference Manual

7 REAR PANEL CONNECTIONS



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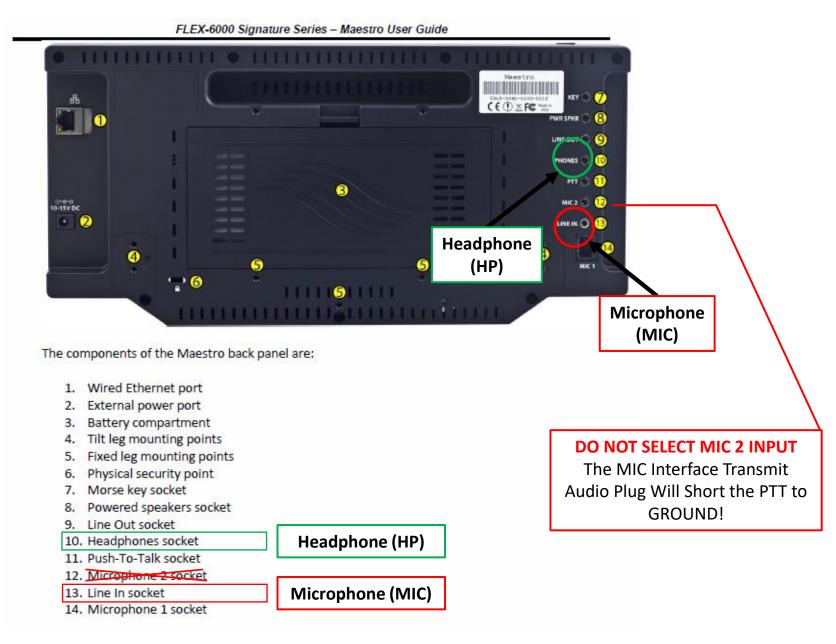
Connection to Maestro When used with Flex Radio



The components of the Maestro Front Panel are:

- 1. Eight-inch multi-touch sensitive full color high resolution display
- 2. Power On/Off button
- 3. Transceiver controls
- 4. Speaker

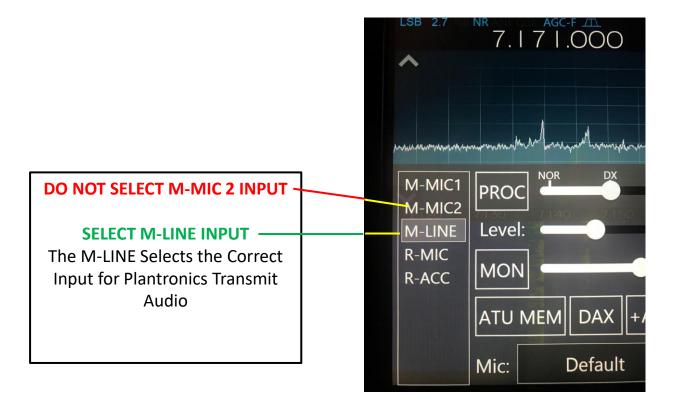
Maestro Rear Panel Connection



Maestro MIC Audio Panel Setup

Tap > **RF PWR** located at middle of main screen below your call sign

Tap > **M-Line** on left side of screen (see below)



DIY Project Completion

- Connect the wiring on the RJ45 breakout board
- Cut the RJ45 and Audio Cables (2) access slot
- Drop the breakout board into the box
- Plug the RJ45 into the CS520 or W720 base (W02) unit
- Connect the Interface Unit Mic and Headphone Plugs to
 - FLEX 6400/6600 rear Phones and Mic jacks or
 - Maestro rear Phones and Line In jacks
- DIY Project is Complete!