m905 Digital PCBA [AT166] Installation

Materials:

Qty	Part	Description
1	AT166	m905 Digital I/O PCBA
4	H035	4-40 X 1/4 SC SS PS
2	H180	#4 Spring Lock ST ZN
8	H484	3-24 x 5/16 6 lobe T-8 Pan Head plastite 48-2 thread, black zinc
2	H483	2-56 X 1/4 SC SS
2	S020	DPDT Relay TQ2-5V
1	WA143	34 Pin Ribbon Cable

Tools:

#1 Phillips Screwdriver
#2 Phillips Screwdriver
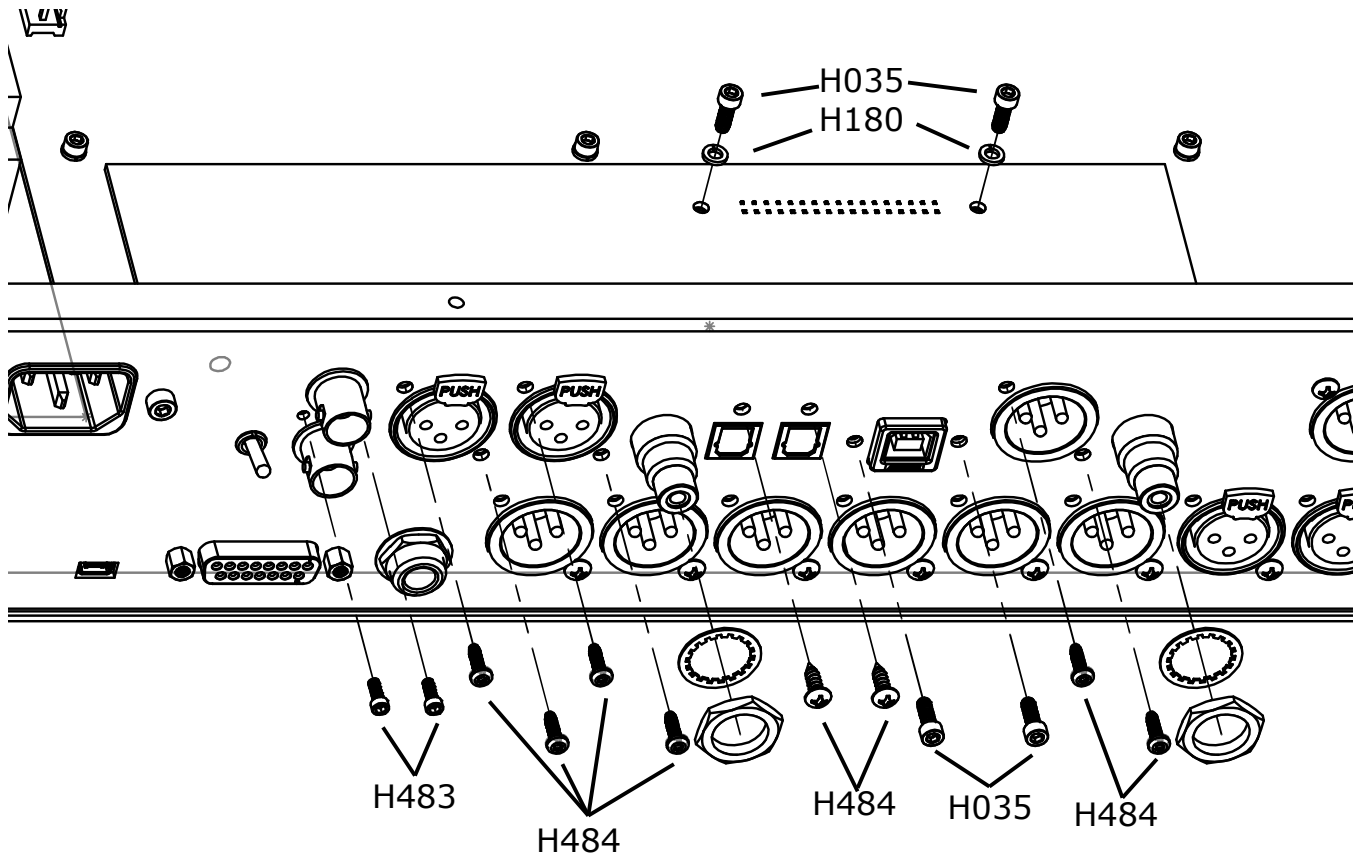T8 Torx
T10 Torx
3/32" Hex Driver
5/64" Hex Driver
16mm Deep Socket with Socket Wrench
1/4" Wrench or Socket Wrench

Procedure:

1. Remove the digital input cover plate with a 3/32" hex driver and 1/4" wrench. Also remove the additional analog input board XLR's with a T8 Torx (some models used T10.) Disconnect the analog input relay board by pulling straight up on it, gently rocking it back and forth if needed. Keep these parts for future use, or it can be returned to the factory if not needed.

2. Install two [S020] relays into the sockets that the analog relay board was plugged in to. Orient the relays so that the edge with the line is to the right when looking at the unit from the front. The line on the relay designates where pin 1 is, the main board silkscreen designates pin 1 with a square around the pin.

3. Remove the RCA jack hardware on the [AT166] and two [H035] screws from the USB jack and put aside for now.

4. Install the [AT166] digital board. Line up the connectors carefully and mount it fully against the rear chassis inside face. Reinstall the RCA jack hardware with a 16mm deep socket wrench, secure the USB jack with 2 [H035] screws using a 3/32" hex driver, XLR jacks with 6 [H484] screws, Toslink jacks with 2 [H484] screws, and the BNC jack with 2 [H483] screws. Secure the board to the standoffs with 2 [H180] washers and 2 [H035] screws. Install the XLR tabs.

H035
H180

H483
H484
H484
H035
H484

5. Connect the digital board to the main board with [WA143].