m908 Phono Field Installation Manual

Rev A

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Document Revision History

Rev	Page	Change	Date	Initials
A		Initial Release	8/12/22	AGV

1 Assembly Steps

1.1 m908 Phono Installation

Materials:

Part #	Description	QTY
AT171	M908 Phono Preamp Option Module PCBA	1
AT190.3	M908 Stereo Unbalanced/Balanced Input PCBA (connected to AT171)	1
H035	4-40 X 1/4 CP SC SS PS	2
H180	#4 Spring Lock Washer	2

Tools:
- #2 Phillips Screwdriver
- 3/32" Allen Wrench
- T8 Torx Driver

Procedure:
1. Place the m908 ACU on a workbench and remove the top cover. There are 4x #2 Phillips screws on the top and 2x on each side.
   Circuit boards can be DAMAGED by static electricity! Be sure to ground yourself before handling or touching the circuit boards!
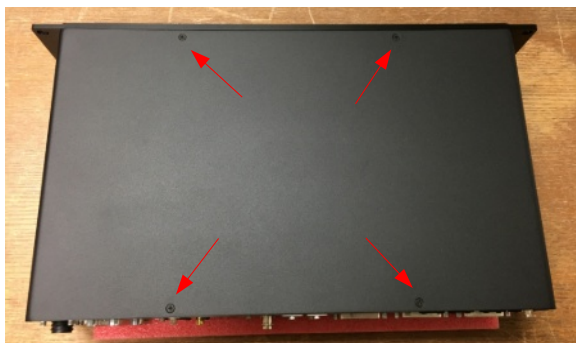

Figure 1: Top Cover Screws

Figure 2: Top Cover Removed

2. The phono option requires an existing ADC1 option installed. If not installed, please refer to the ADC option field installation manual.

3. Remove the existing stereo input board by removing 5x T8 Torx screws and disconnecting the wire harnesses from the ADC1 PCBA and analog input PCBA.

Figure 3: Stereo Analog Input PCBA
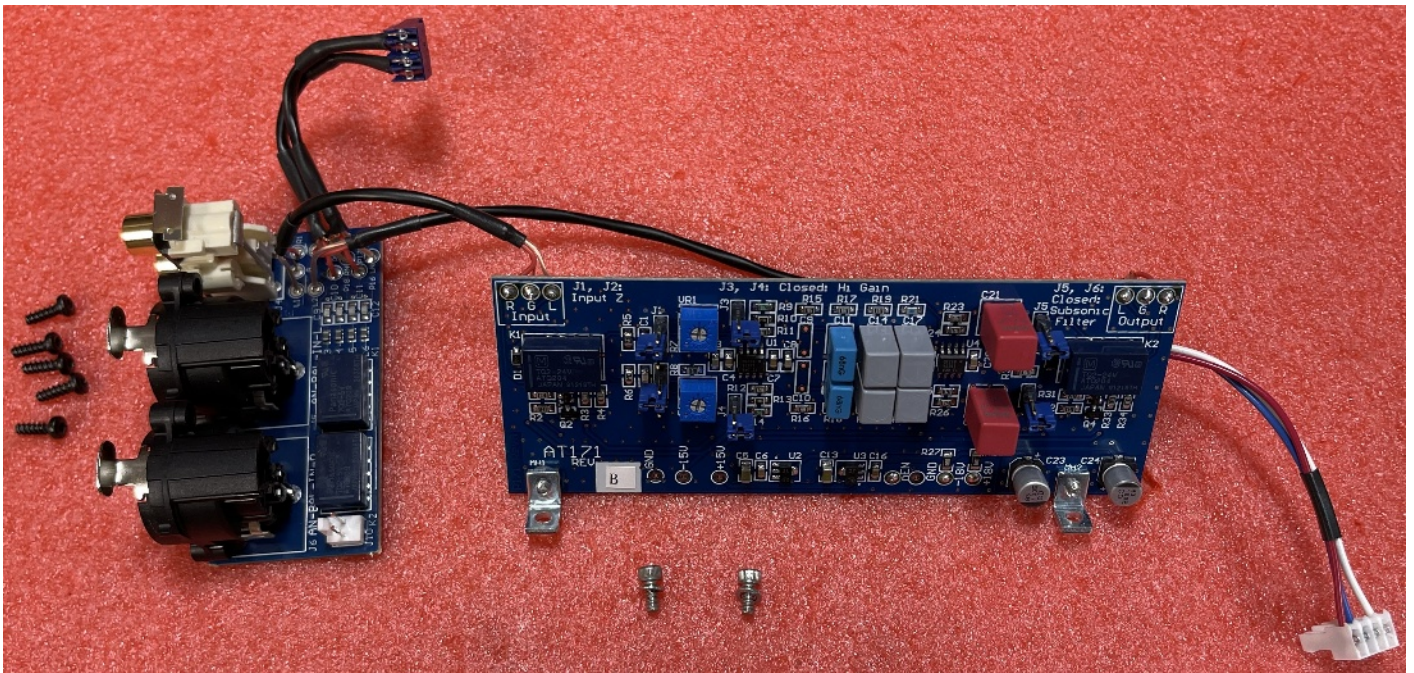
4. Prepare the phono preamp option PCBA.

Figure 4: m908 Phono Preamp Option Assembly

5. Set the ADC jumpers for your required sensitivity before installing the phono option. The default position is +24dBu = 0dBFS. The phono preamp uses CH1 and CH2 of ADC1.
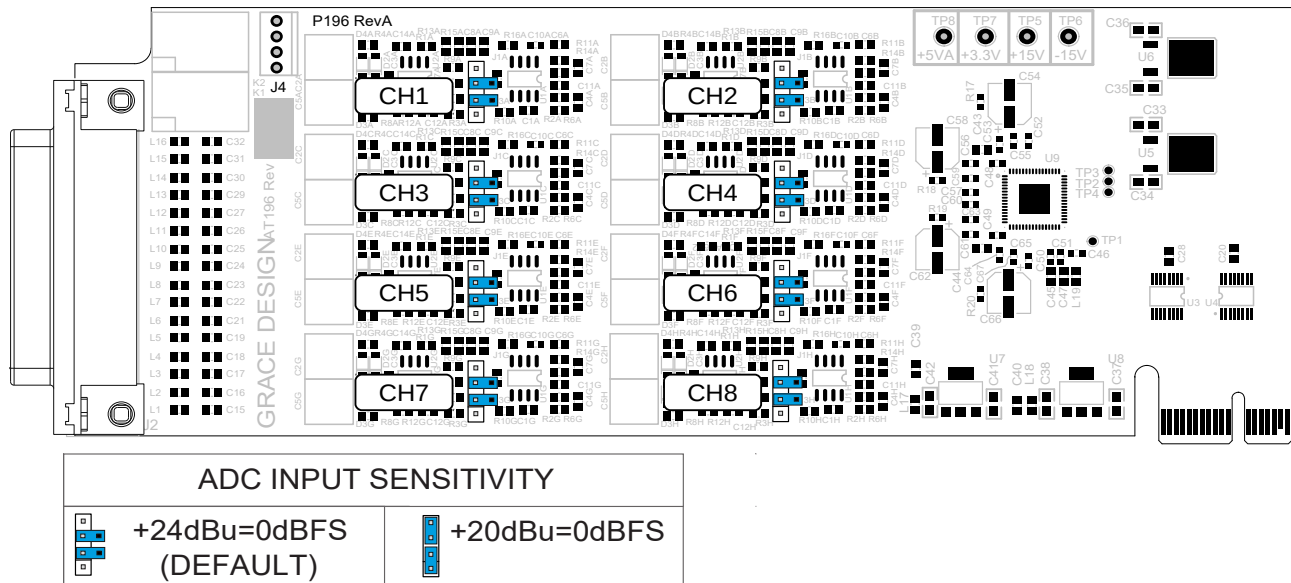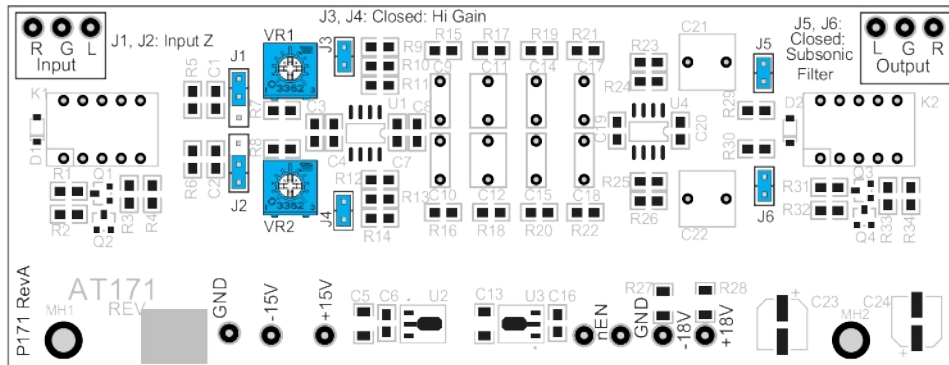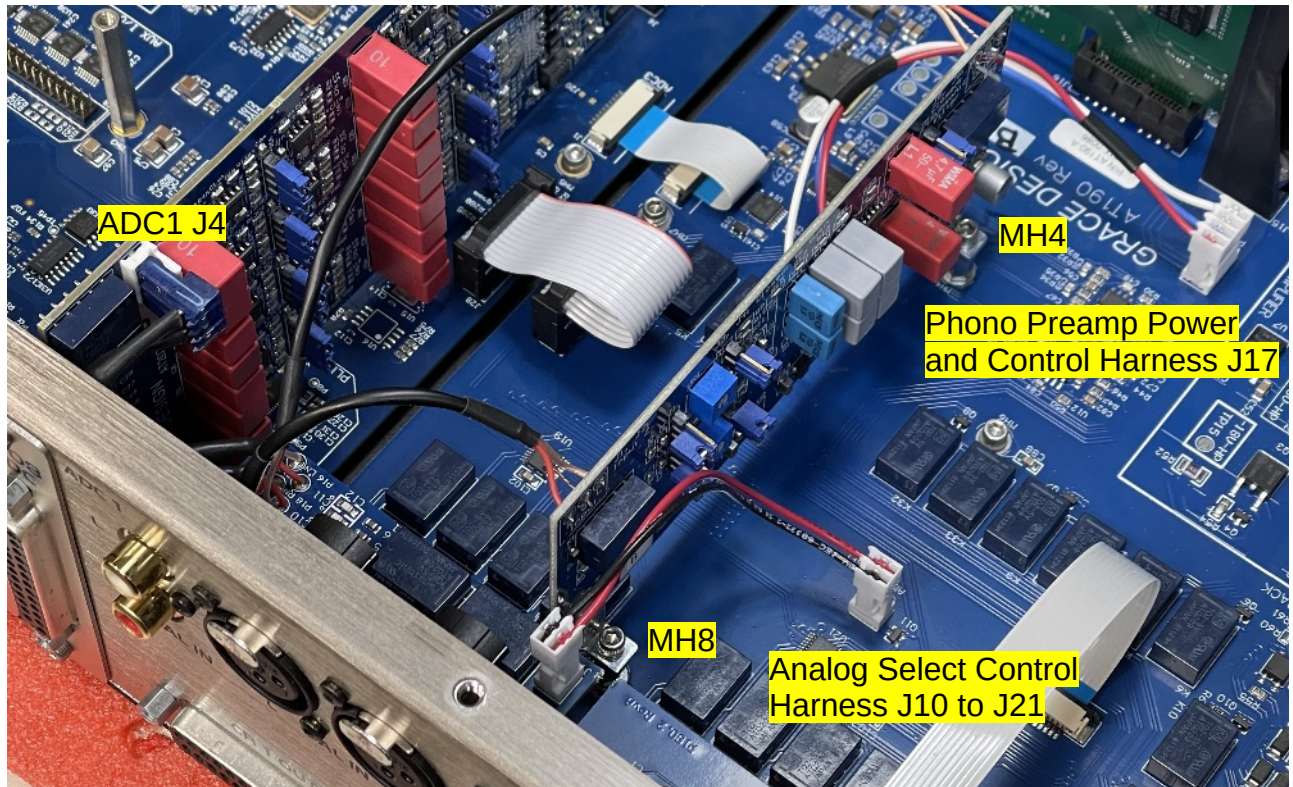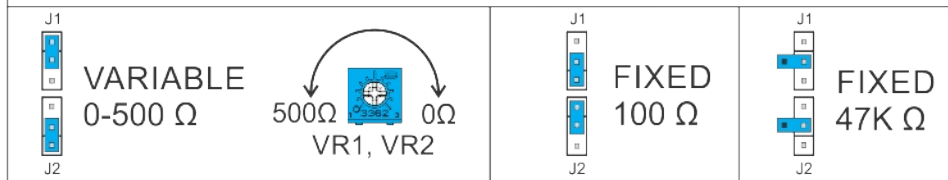

Figure 5: ADC Input Sensitivity Jumpers

6. Install the phono option to the standoffs located at MH4 and MH8 with the included H035 screws and H180 lock washers with a 3/32" hex driver.

7. Install the stereo input PCBA to the chassis with the existing 5x T8 Torx screws that were removed earlier.

8. Connect the stereo input board output wire harness to ADC1 location J4.

9. Connect the analog select wire harness from J21 on the AT190 analog main board to J10 on the stereo input PCBA.

10. Connect the phono preamp power and control wire harness to J17 on the AT190 analog main board. Refer to Figure 6 for details.

11. Configure the jumpers on the phono preamp for your intended usage. Refer to Figure 7 for details.

12. Re-install the top cover. This concludes the m908 phono option installation.

13. To toggle the unbalanced input mode, enter setup mode, then press and hold the mute button for system setup. Unbalanced input mode can be set for line or phono input.

Figure 7: Phono Preamp Jumper Settings