360 Systems

P R O F E S S I O N A L   D I G I T A L   A U D I O

AM-16 System Interface Notes
07/01/2003

Setup for use with MIDI

This unit is set up to be used with an AM-16/R Remote Control. If you are going to use it with a MIDI system, the jumper for MIDI/485 must be switched to MIDI. This jumper is a small black plastic piece located on the circuit board in the bottom of the unit near the right rear corner. Remove it from the connector pins and replace it so that it goes from the center pin to the formerly unconnected pin, marked MIDI on the circuit board.

After power up, press the MODE SELECT button until the PROGRAM SEND ENABLE LED lights. If the right hand LED Readout shows "485", then press the DOWN ARROW below it to switch the setting to "nor".

Setup for use with an AM-16/R Remote Control

As shipped, the AM-16/B should be ready to be used with a Remote Control. However, in the event of trouble with Remote communication, system reset or memory loss, check these settings:

PROGRAM SEND ENABLE must be set to "485" in the right LED Readout. Press the MODE SELECT switch until the PROGRAM SEND ENABLE LED lights to view this setting. Change it by pressing the UP or DOWN ARROW KEYS under the LED Readout.

RECEIVE CHANNEL must be set to "OF" in the middle LED Readout. Use the UP or DOWN ARROW KEYS below it to change the setting. The right LED Readout indicates the Address of the AM-16/B. This determines what LEVEL on the AM-16/R will access this unit. In systems with only one AM-16/B, the Address should be set to "0".

The jumper for MIDI/485 must be in the 485 position. If you are installing an AM-16/R with an existing AM-16/B (shipped before October of 1997) this jumper may not be set to this position. The jumper is a small black plastic piece located on the circuit board in the bottom of the unit near the right rear corner. Remove it from the connector pins and replace it so that it goes from the center pin to the formerly unconnected pin, marked 485 on the circuit board.

Finally, Memory Protect must be Off.

Use with the AM-16/E

The AM-16/E Expander adds a second layer of identical signal routing to the matrix. This results in a stereo 16 x 16 matrix, not 32 X 32 or 16 X 32. Signal cannot be routed from an input on the AM-16/B to an output on the AM-16/E or vice versa.

The AM-16/B should normally be in Mono mode for use with an AM-16/E. Stereo mode is used only to create an 8 x 8 Stereo matrix using one AM-16/B; with an expander an 8x8 quad matrix would result. AM-16/B units are shipped in Mono Mode. If you find that you cannot access inputs or outputs 9 through 16 when programming sources and destinations, then the unit is in Stereo mode. To change modes, disconnect the power cable and remove the six screws holding the top panel in place. The jumper for selecting Mono/Stereo mode is located on the front panel circuit board at the far left edge, below a white connector with a blue and a black wire. You can remove this connector to gain access to the jumper. Remove the jumper and place it so that it connects the center pin and the formerly unconnected pin.

When wiring the connectors for the audio signals, Left channels should be wired to the AM-16/B, Right channels to the AM-16/E.

Additional AM-16/E units can be added for additional channels, up to 3 units to allow 4 channel audio to be routed. The Expander Port wiring is pin-to-pin for each unit. A ribbon cable with in-line IDC connectors can be used for this purpose. All units should be located in the same rack as this connection is not designed for long cable runs.