

L86_{EMI3M}

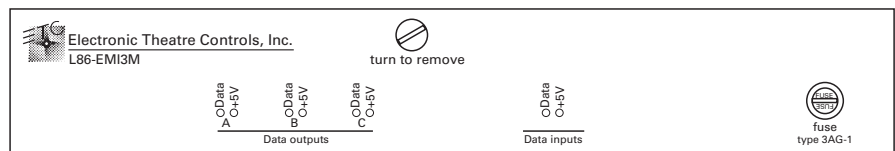
opto-isolation module

U S E R S M A N U A L

This manual describes ETC's L86 EMI3M Opto-Isolation module. This L86 component provides optical isolation between input signals and the rest of your L86 system. The EMI3M electronics module is installed in the top left slot of the L86 dimmer chassis. It isolates the DMX512 input signal from each of the L86 EM64 control modules, and also provides isolation between the EM64 modules.

Front panel

The EMI3M front panel is illustrated below. It contains four pairs of indicator LEDs and a fuse socket.



Indicator LEDs

Each indicator LED on the module's front panel provides specific information about the operating status of the module. Each pair contains a power LED (+5) and a data LED. The information each LED provides is described below:

+5V

LED Off

LED On

Power LED

System is off, disconnected or damaged.

System is receiving power.

Data

LED Off

LED On

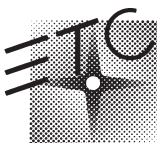
Data Input/Output

Data is not present.

Data is present.

Power Supply Fuse

To remove the fuse, push slightly on the center of the fuse cover with a screwdriver and turn the cover counter-clockwise. Replace the fuse with type 3AG-1 only. (See Page 2 for Data Fuses.)



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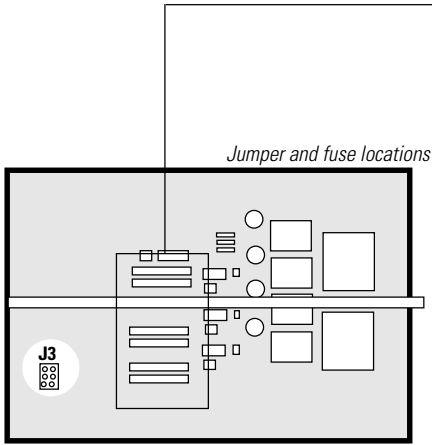
Inside the EMI3M

Your EMI3M module is configured specifically for your dimming system. It contains six internal user-replacable fuses and a single set of jumpers.

Data Fuses

Six fuses are installed inside the EMI3M to protect your system. If there is a short (excess voltage) in the data stream, the fuses in the affected phase will fail. Two fuses are assigned to each phase. (See diagram to left.)

Warning: Replace data fuses with type GMA-1/8 only.



Main/Auxiliary Jumpers

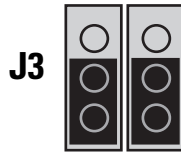
These jumpers consist of two sets of three vertical pins on the circuit board at location **J3**. Most L86 Installation Racks, and all L86 Touring Racks are set to **Main** (center and top pins connected on both sets). If you are replacing a malfunctioning EMI3M in your system, be certain to adjust the jumper settings at location **J3** on the spare so they match the settings on the original module. (See illustrations to left.)

If you have any questions, please contact ETC Field Service.

Main



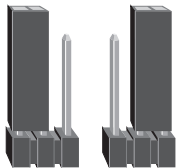
Auxiliary



Note: If the EMI3M fails, it is usually due to a ground fault condition (excess voltage applied to the input or outputs of the module). Please check for such a condition before attempting to replace or repair the unit. It is possible to temporarily replace the module with an EMRF, but the EMRF will not protect your system from whatever caused the EMI3M to fail.

Three prong jumper

Jumper clip on



Jumper clip off

