



by POTTER

Installation Manual: EVAX EVX-BA-100 Backup Audio Interface

NOTICE TO THE INSTALLER

This manual provides an overview and the installation instructions for the EVAX EVX-BA-100 Backup Audio Interface. All terminals are power limited and should be wired in accordance with the requirements of NFPA 70 (NEC), NFPA 101 (Life Safety Code) and NFPA 72 (National Fire Alarm Code). Failure to follow the wiring diagrams in the following pages will cause the system to not operate as intended. For further information, refer to the control panel installation instructions.

The module shall only be installed with listed devices. Refer to the installation manuals for proper system operation.

Description

The EVX-BA-100 provides a means to switch in a backup amplifier in the event of a primary amp failure. One backup amp can be provided in reserve for several primary amps. Amplifier outputs are connected at TB2, and speaker field wiring at TB1. Supervisory and 24 VDC power inputs are provided at TS1. The LED onboard activates when the backup amp has been switched in. All wiring is power-limited. Mounts to snaptrack or insulating nylon standoffs.

The EVX-BA-100 is compatible with both 25VRMS and 70VRMS audio signals.

Installation

Install equipment in a clean, dry environment, avoid installation where equipment could be subjected to vibration. Remove electronic assemblies from the enclosure prior to any drilling or punching of the enclosure. Where possible, make all cable entries from the rear or sides. Before making any modifications to the enclosure, be certain that they will not interfere with assemblies or batteries.

Mounting: The EVX-BA-100 is mounted in the same cabinet that houses the primary amplifier. It is designed to be mounted into standard 3" snap track material. The board also has mounting holes at the corners for stand-off mounts where necessary.

TB1:
Ter. 1 - Ckt. Neg
Ter. 2 - +24 VDC
Ter. 3 - Gen Input
Ter. 4 - +24 VDC

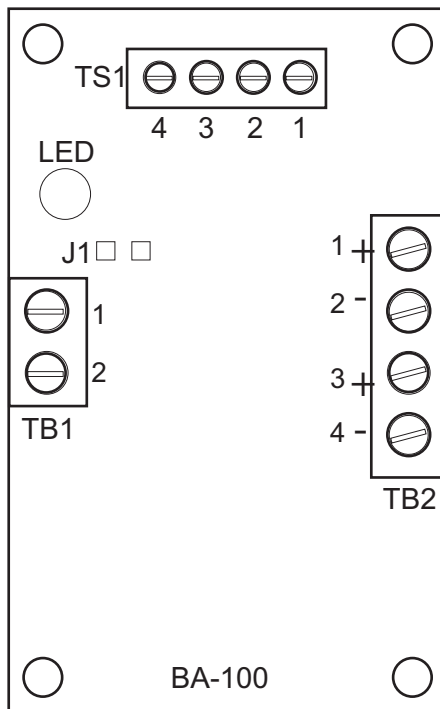
TB1:
Ter. 1 & 2 - Audio Output

TB2:
Ter. 1 & 2 - 25/70 VRMS Audio
Input from backup amplifier

Ter. 3 & 4 - 25/70 VRMS Audio
Input from primary amplifier

JUMPERS:
J1: jumps TS1-2 to TS1-4

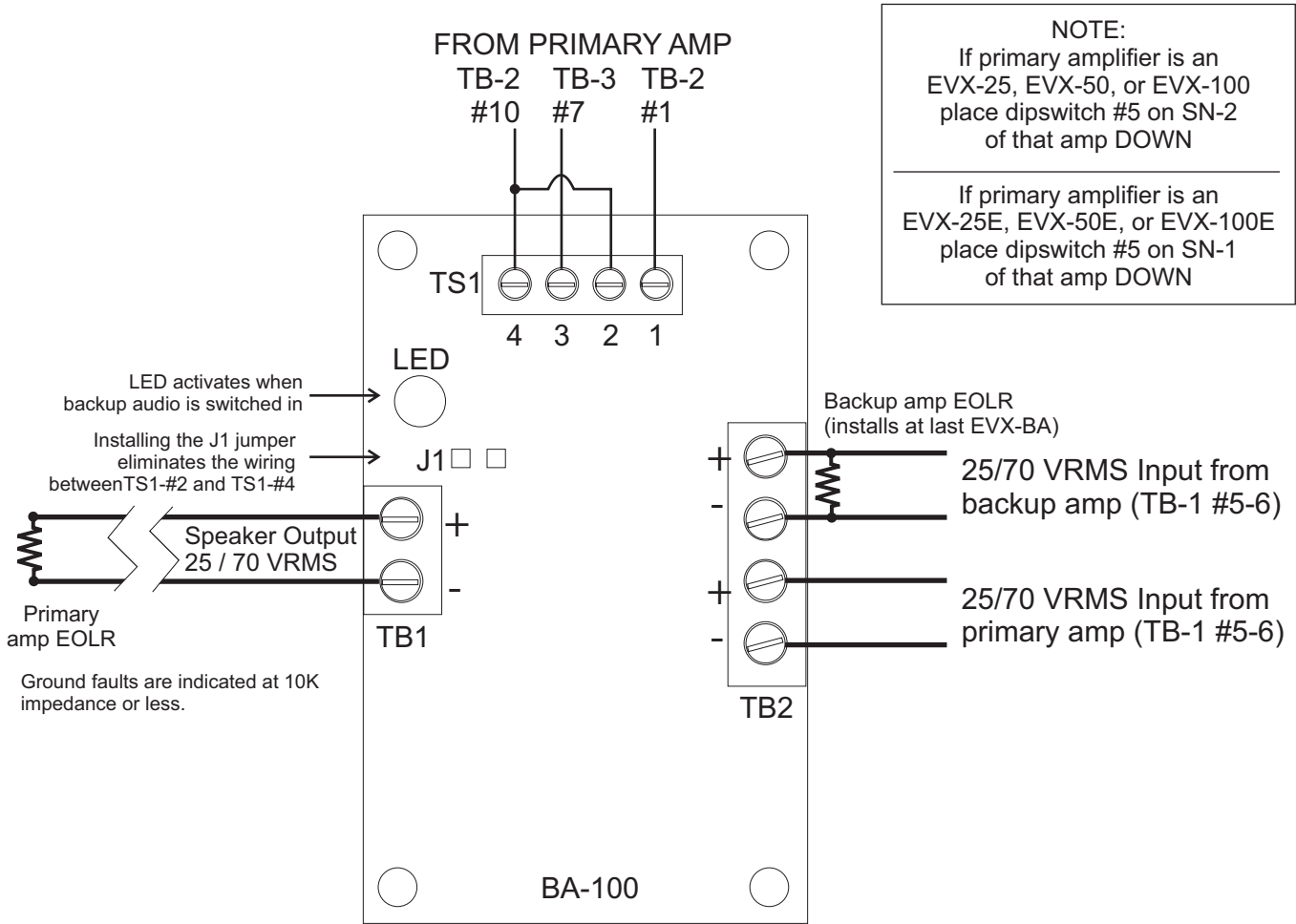
LED 1:
ON: backup audio switched in



SPECIFICATIONS:

Power: 24 VDC
Current: 40 mA Standby
10 mA Active

Typical Connection Detail



NOTE:
If primary amplifier is an
EVX-25, EVX-50, or EVX-100
place dipswitch #5 on SN-2
of that amp DOWN

If primary amplifier is an
EVX-25E, EVX-50E, or EVX-100E
place dipswitch #5 on SN-1
of that amp DOWN

Field wiring connections:
#6-32 wire clamp screw 14-18 AWG
#8-32 wire clamp screw 12-18 AWG
Horizontal wire entry terminal 18-26 AWG
Wire gauge determined by circuit load