EVB-BA-100

Backup Audio Interface

(replacement for EVX-BA)

The EVB-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 on-board activates when the backup amp has been switched in. All wiring is power-limited.   Mounts to snaptrack or insulating nylon standoffs.

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

INSTALLATION:

Mounting: The EVB-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.

Fig. 1 - Board

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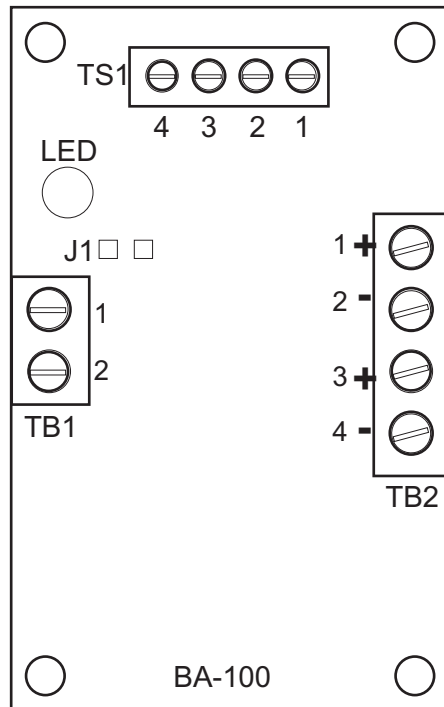
Ter. 3&4 - 25/70 VRMS Audio Input from primary amplifier

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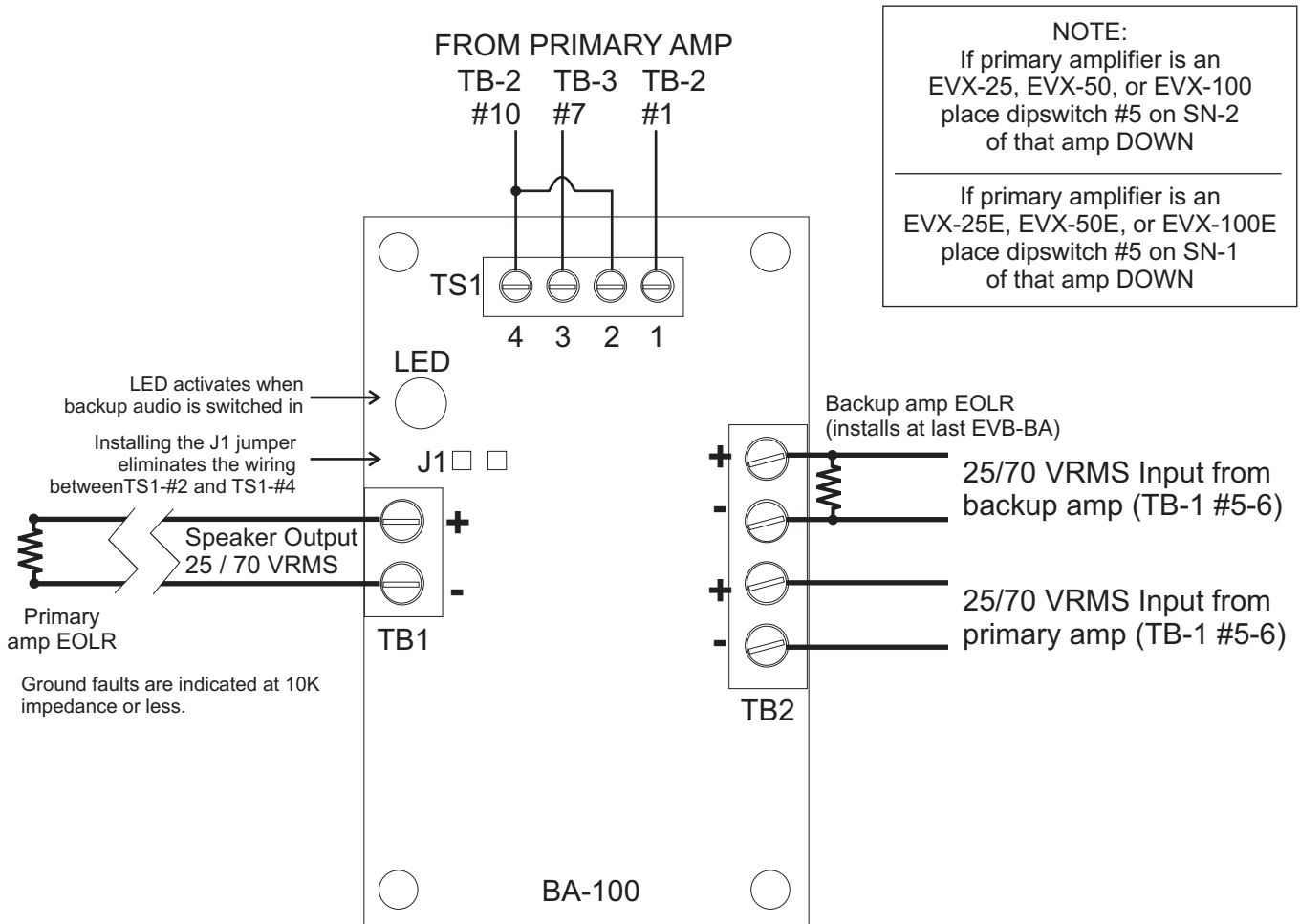

LED 1:
ON: backup audio switched in

SPECIFICATIONS:

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

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Fig. 2 - Typical Connection Detail

FROM PRIMARY AMP

TB-2 #10   TB-3 #7   TB-2 #1

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

TS1

4   3   2   1

LED

LED activates when
backup audio is switched in

Installing the J1 jumper
eliminates the wiring
betweenTS1-#2 and TS1-#4

J1

Speaker Output
25 / 70 VRMS

+

−

Primary
amp EOLR

TB1

Ground faults are indicated at 10K
impedance or less.

Backup amp EOLR
(installs at last EVB-BA)

+

−

25/70 VRMS Input from
backup amp (TB-1 #5-6)

+

−

25/70 VRMS Input from
primary amp (TB-1 #5-6)

TB2

BA-100

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

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