T-70 Transformer Installation · AA-120 Amplifier

1. Disconnect all sources of power.
2. Disconnect P3 and P8 from AA-120 amplifier.
3. Remove upper board of the amplifier from the chassis by removing six screws, (2) from the top and (4) from the sides.
4. Using caution to avoid cutting harness, cut tie wraps from transformer harness assembly.
5. Attach T-70 transformer to studs provided on the chassis using the hardware included.
6. Re-attach upper board to chassis.
7. Connect transformer module to connector P7 on upper board of amplifier.
8. Re-connect P3 and P8 to the upper board.

Note: The AA-120 chassis amplifier may have to be removed from the cabinet in order to install the T-70 option.

NOTIFIER®
A Pittway Company
12 Clintonville Road
Northford, CT. 06472

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Description

T-70 is a step-up transformer that converts a standard 25 VRMS 120W audio signal into a standard 70.7 VRMS 100W audio signal that is available on screws 7 and 8 of P8. As a result, the AA-120 output rating is reduced to 100 watts.

Application Notes:

Audio amplifier output supervision is not available when the T-70 is used. Therefore do not remove resistor R100 from the AA-120 top board, nor connect field wiring to screws 2 and 3 of P8. The AA-120 with T-70 option must be located in the same cabinet as the module(s) providing speaker circuit supervision (i.e. the same cabinet as the XPC-8/S5000 card).

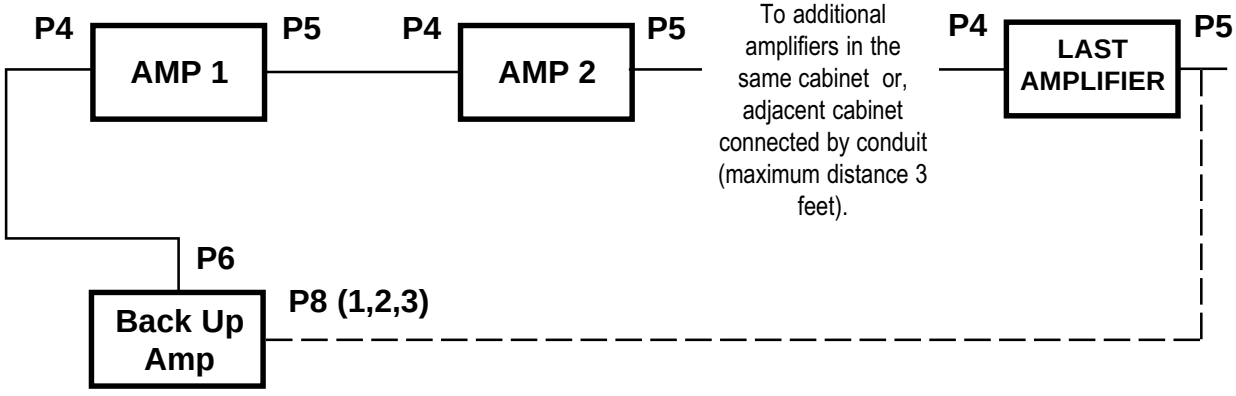
The backup amplifier in the 70.7 VRMS audio system does not require a T-70 transformer. The output labeled "25 VOLT OUT", (P6) on backup amplifier, should be connected to "BACKUP IN", terminal (P4) of amplifier being backed up. "BACKUP OUT", terminal (P5) of the amplifier being backed up, should be connected to "BACKUP IN", terminal (P4), of the next amplifier in line to be backed up.

A single backup amplifier can be used to provide single channel backup of any combination of 25 VRMS AA-30 and AA-120 amplifiers and 70.7 VRMS AA-120 amplifiers with the T-70 option installed.

This backup amplifier will provide back up to any one amplifier in the group which fails. In the event of multiple amplifier failures, the failed amplifier wired closest to the backup amplifier will be the only failed amplifier serviced by the backup amplifier.

When using the T-70 option, all speakers must be rated for use at 70.7 VRMS.

The connection to audio return terminals P8 (1,2,3 *shown by dotted line below*) of backup amplifier is necessary if backup amplifier is located in another cabinet away from the amplifiers which it is backing up, and needs to be supervised.



Total output of the AA-120 with the T-70 transformer is a MAXIMUM of 100 WATTS