

Assemblies Affected:

MRC-44, MRC-88, PA-1235-series, PA-635 and 435-series. Includes 'X' versions and International (230VAC) versions.

Purpose

Protect PA series amplifier installations from excessive voltage exposure due to Lightning or other major power fluctuations.

Cause:

Installations with long speaker runs, outdoor cable runs, cables run in close proximity of TV Antennas and/or Cable inlets in regions where severe Thunderstorms are common may act as antennas allowing major voltage spikes to reach the amplifier output terminals.

Solution:

This kit contains four TVS (Transient Voltage Suppression) devices and eight insulation sleeves. One kit will support two stereo-pairs. Kit PN#08400792.

Note: The Xantech part number for the individual TVS devices is 06500105.

The TVS Diode is meant to be placed across the '+' and '-' terminals directly on the Amplifier Output channels. This will suppress any unwanted voltage being transmitted back to the amplifier along the speaker wires.

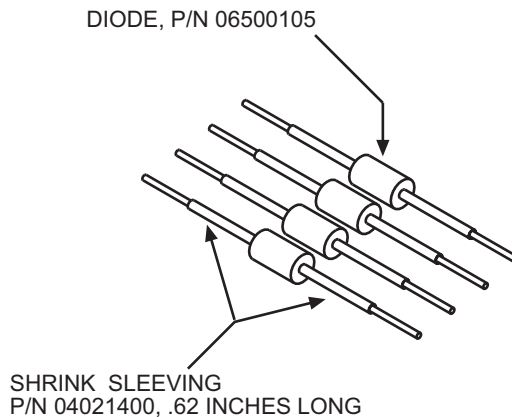


Figure 1: Transient Voltage Suppression (TVS) Diode

Installation Procedure:

Refer to **Figure 1** and **Figure 2** for the following instructions:**Note: Modification does not affect sonic quality**

Note: This modification does not apply to PA4100X amplifiers.

1. Make sure Amplifier is powered OFF and disconnected from the AC power line.
2. Loosen all 4 screws of the WECO connector to its widest setting.
3. Place the insulation sleeves (PN# 04021400) onto **both** leads of the TVS diode as shown in **Figure 1**.

Note: Do not cut the leads of the TVS Diode

Note: Insulation sleeves **must** be placed on both

leads of the TVS diode before installation to prevent possible electrical short.

4. Bend the leads of the TVS at 90 degrees right at the barrel of the diode.
5. Connect the Left speaker leads to the proper '+' and '-' terminals of the WECO connector.
6. Carefully insert the leads of the TVS diode to each of the same '+' and '-' terminals of the WECO as in step 5. (see **Figure 2a**).
7. Tighten the 2 screws of the populated terminals of the WECO connector
8. Connect the Right speaker leads to the remaining '+' and '-' terminals of the same WECO connector as in Step 5.
9. Carefully insert the leads of the TVS diode to each of the same '+' and '-' terminals of the WECO as in step 8.
10. Tighten the remaining 2 screws of the populated terminals of the WECO connector.
11. Inspect all terminals of the WECO connector making sure:
 - a. TVS diodes are placed on the proper '+' and '-' terminal pairs along with the Speaker leads
 - b. There are no electrical shorts between any of the WECO terminals
 - c. Screws on WECO connector are properly tightened.
12. Place the WECO connector on the proper output of the amplifier to be protected (See **Figure 2**).

NOTE: For Amplifiers in Bridged Mode, install TVS the same as in Stereo Mode but Speaker Leads will wire according to Bridge Mode wiring as stated in amplifiers instruction Manual

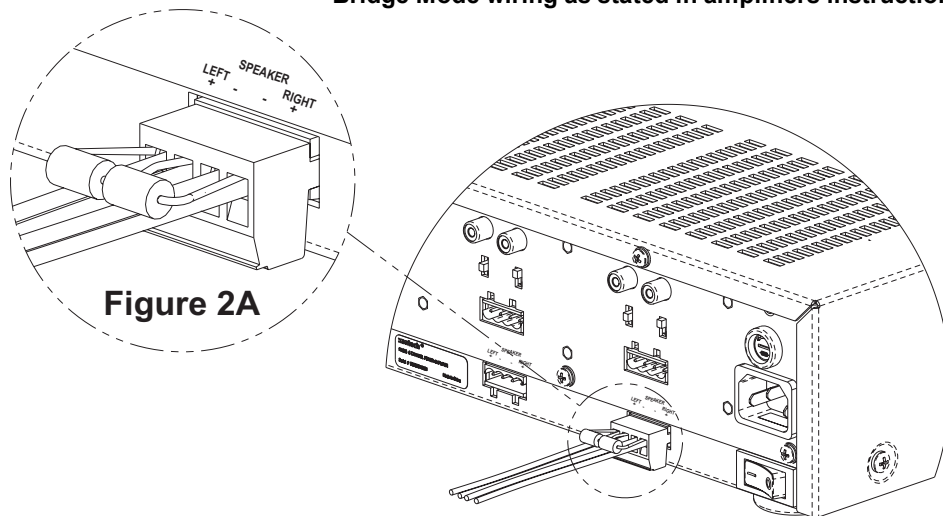


Figure 2: TVS Diode Installation