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Repairing the Kenwood KA-8300 with the Pyramid Audio TA-100W+

Maybe your symptom is the speaker relay won't close and it is not blowing fuses. Make sure only the TA-100W needs replacing.

Un-plug your amp and Ohm the TA-100W. No pin should measure shorted to pin 5, not even close. If you find a short you have identified a bad IC. Remove the bad TA-100 and clean up the white paste, alcohol works best.

Now you can test the KA-8300 without the bad STK.

Connect pad 3 to pad 5 and pad 7 to pad 5 with bypass resistors, 220 to 1000 ohm will do.

TEST with NO LOAD, NO SPEAKERS. Headphones are ok if you don't have a scope.

Connect your scope to a bypass resistor. It does not matter which resistor or which end of the resistor you chose.

Set scope to 20V/division and 1mS/division. Drive the AUX input with 500 mV at 400Hz. Set the receiver to AUX and the VOLUME to 1/4 or less.

TURN IT ON with the bypass resistors in place and if the rest of the amp is ok, the traces should stay within 0.2 volts of zero. If the rest of the KA-8300 is ok the relay should close and produce sound. YAY!

If not, DO NOT proceed until you find the problem and pass this step. Otherwise, you may ruin a new module.

Installing the TA-100W+

Remove the top, bottom, and sides.

Take out the two screws holding the TA-100W in place, unsolder the old part and take it out.

Use alcohol to remove all of the old paste.

PEEL AND STICK the brown silpads to the metal backs of the TA-100W+ power transistors.

Place the TA-100W+. Use the longer supplied screws, tighten the screws BEFORE soldering the pins.

Solder the pins.

Nothing left now except music and maybe re-lubing the controls and switches. The bias was preset during testing.

