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Repairing the Kenwood KA-9100/9150 with the TA-100WA+

Maybe your symptom is the speaker relay won't close and it is not blowing fuses. You need to make sure only the TA-100WA needs replacing.

Un-plug your amp and Ohm the TA-100WA. 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 old TA-100WA and clean up the white paste, alcohol works best.

Now you can test the rest of KA-9100 without the old TA-100WA.
Connect pad 3 to pad 5 with a resistor, 220 to 1000 ohm will do.
Connect pad 7 to pad 5 with a resistor, 220 to 1000 ohm will do.

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-9100 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.

If it works, NOW is the time to use the PRE OUT to catch other problems like noisy controls and switches and power supplies. By the way, every KA-9100 I have seen needed the speaker relays polished or replaced and replace caps on the regulator PCB.

Installing the TA-100WA+

PEEL AND STICK the brown silpads to the metal backs of the power transistors.

Place the TA-100WA+ then tighten the transistor screws BEFORE soldering the pins.

Time a smoke test.

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