

# PYRAMID AUDIO

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Replacing the Sanyo STK1080 with the Pyramid Audio STK1080+ in the Fisher CA-880 is simple.

Remove the top cover. Remove the two screws that hold the STK1080 in place. The heat sink paste that was used in the past is quite sticky at this point. Use two small Phillips or Torx screwdrivers, one in each hole, and pry it off.

Now the circuit board and IC can be moved up and out of the way. Take a razor blade and scrape off all the heat sink paste you can from the heat sink. Clean the residue off with an alcohol soaked paper towel. 70% alcohol is available at most grocery stores in the pharmacy. Less than two dollars for a pint. You can't drink it.



Make sure only the STK needs replacing. No adjacent pins should measure shorted, except 7-8 and 3-4, not even close. If you find a short you have identified a bad STK. Remove the bad STK and clean up the white paste. Don't lose the screws, you will need them later.

Now we can test without the bad STK.

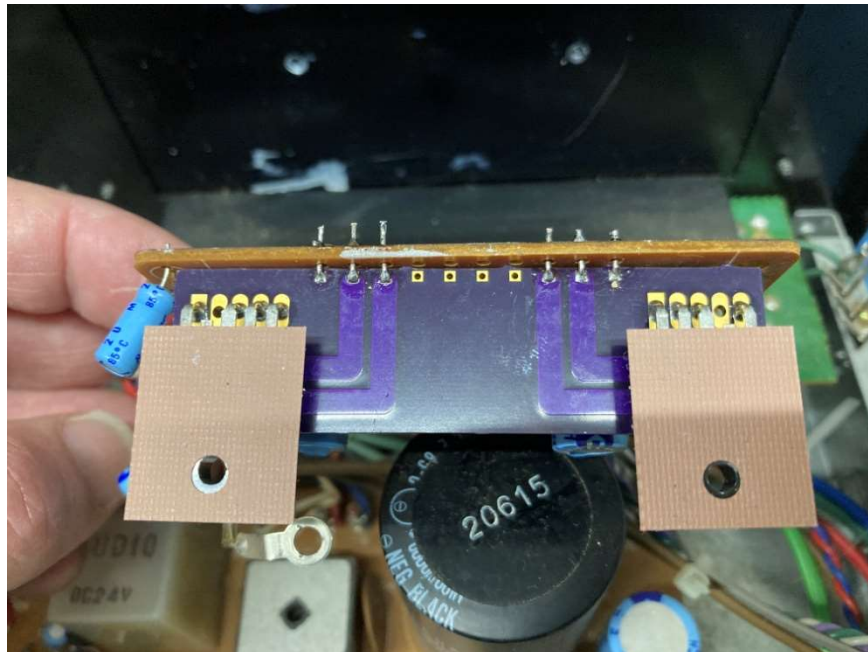
Connect pad 1 to pad 4 and pad 7 to pad 10 with resistors, 220 to 1000 ohm will do.

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 ¼ 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. With the regulators soldered and working the relay should close and produce sound. YAY! The rest of the circuit is good!

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



Take the new part and apply the peel and stick thermal pads to the BACK of the transistors. Do not use thermal paste.

Fit the new STK1080+ in place. Screw it to the heat sink. The STK1080+ is thinner than the old part so you may have to use shorter screws. They are the same metric specification and should go in easily. Solder the six pins.

Best performance will be obtained if you pull and replace the speaker relay or disassemble the speaker relay and clean it. You will also need to re-lube the input selector and the speaker selector switch, in fact just go ahead and Deoxit everything that moves. Don't forget to check the speaker fuse holders if present, loose fuses causes distortion too.