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Repairing the Pioneer SX-650 with the SP-40W+

Maybe your symptom is the speaker relay won't close and it is not blowing fuses. You need to make sure only the SP-40W+ needs replacing.

Un-plug your amp and Ohm the SP-40W+. No other pin should measure shorted to pin 4, not even close. If you find a short you have identified a bad IC. Remove the bad old SP-40W+ and clean up the white paste, alcohol works best.

Installing the SP-40W+

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

Place the SP-40W+ 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.