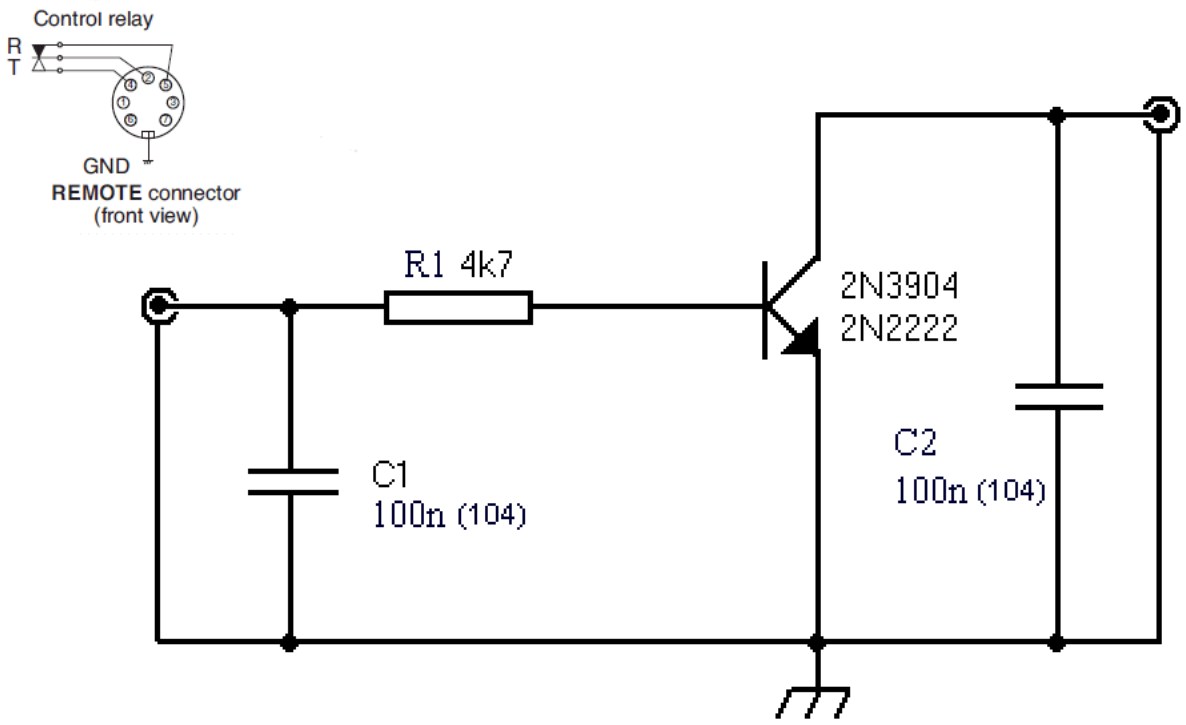
A simple interface for the Kenwood TS-590 and Acom A1000 amplifier by Paul Evans, W4/VP9KF.

There seem to have been repeated requests for an amplifier interface on the TS-590, Hamlogger (Logger32), N1MM+ Groups, etc. online.

Strangely, most of these have ended up with a drift towards using the clunky relay in the TS-590, rather than using the 'High when keyed' (pin 7) output on the Remote connector.



With the decoupling capacitors shown it also performs well even next to very high RF fields. **Do not omit them or falsing or RF feedback will occur.**

The parts really are non-critical. A tiny square of vector board (or Vero board) is all that's needed to make this circuit, or you can build it inside the 7 pin DIN connector shell itself. Any small NPN transistor capable of switching 15V at 100mA may be substituted. No power is required as it is used as an open collector pull-down for the A1000 switching line.

It can be built into a small box with female phono connectors. Cables can then be 7 pin DIN to phono male and phono male to phono male. These cables should be screened (shielded) to keep RF out.

On the Remote connector the center wire is connected to pin 7 and ground is picked up by soldering to the metal connector shell.

Setting up the TS-590: Press MENU and turn the Multi knob until you reach 53 for HF or 54 for 6m. Use M.IN and SCAN to change the selection to '1' (pin 7 enabled, relay not).

Please note: This circuit is open-hardware. Do not change these notes or remove reference to the design source. You may link to it, but do not copy to other servers or group files.