Looking at the Back of the TS-480

If you utilize the resistor & capacitor the Kenwood is initialized for the External Antenna Tuner operation and pressing the AT Tune button momentarily changes Pin 5 from a "1" to a "0". Next, the External Antenna Tuner must return a "0" to Pin 2 to initiate and hold a 10 watt CW carrier. When the External Antenna Tuner is finished tuning it changes state on Pin 2 to a "1" terminating the 10 watt CW carrier and returning to receive. If the External Antenna Tuner fails to send a "0" to Pin 2 the process is terminated immediately.

The idea is to have the capacitor time constant pull the TT line down (momentarily to 0 volts) when the TS line is downed by the tune command in the TS-480 and then the time constant decays so the AH-4 controls the logic and returns a Hi or (5 volts) on the TT line when it is finished tuning.

Key (Green Wire)
Ground (Black Wire)
Start (white Wire)
13.8v (Red Wire)

**Parts List From Jaycar**
- 2 x 100uF NP Caps – RY6908
- 1 x 1K Resistor – RR3298
- 1m 4 Core Cable - WB1510
- Jiffy Box – HB2015

**Kenwood Connector Part #**
Plug – KE09-0672-08
Pins (6 Required) – KE23-0646-08

**Important:** The 1K ohm Resistor in series with a 5uf NPO Capacitor from TT (Pin 2) to TS (Pin 5) of the Kenwood Connector is the necessary to initialize the Kenwood for external antenna tuner operation From the front panel AT Tune button.

TS = Tune Start, TT = Tune Terminate