

# Kenwood Amplifier Keying Relay Specifications

From: KCC-Amateur [mailto:kcc-amateur@kenwoodusa.com]  
Sent: Monday, March 18, 2013 9:48 AM  
To: bob.lanning@verizon.net  
Subject: TS-990S

Hello Bob,

What amplifier are you going to using ?

If you use say a Collins, old Yaesu, Henry, Heathkit I would recommend an external relay.

Pin 4 is Relay, Pin 2 is Ground for Relay, and Pin 6 is ALC.

Press Menu, Now press ADV right side of the 7 inch screen now select # 11 Linear Amplifier and turn on the amplifier relay.

The TS-990S, TS-590S, TS-570D/S(G)/TS-870S, TS-2000, and TS-480HX/TS-480SAT are capable of being connected to most HF amplifiers directly. The specifications on the internal relay for the TS-570D/S(G)/TS-870S are:

0.6 Amps at 125vAC  
0.6 Amps at 110vDC  
2.0 Amps at 30vDC

Amplifier hook up information for Kenwood TS-570D/S(G)/TS-870S, TS-2000, and TS-480 with the Remote 7 pin din plug. Pin 4 is Relay, Pin 2 is Ground for Relay, and Pin 6 is ALC. Amplifier Relay Jack on all HF radio's is 1/2 amp or 500 ma. The ALC is Negative Driven with a threshold of -6 to -20.

Your amplifier should not exceed the specification above, if they exceed these limits, you will need to use a external relay. Kenwood does not make an external amplifier relay.

Please check with the amplifier manufacturer like Ameritron, or Henry Radio.

Sincerely, Leo Fahmie KJ6HI DM03tw

Kenwood Amateur Radio Customer Support  
Kenwood U.S.A.  
2201 E. Dominguez Street  
Long Beach, CA 90810  
Phone: (310) 639-4200 prompts 4, and 1  
Fax: (310) 537-8235  
E-Mail: kcc-amateur@kenwoodusa.com

## Kenwood Amplifier Connections

If you are using any Kenwood HF transceiver with a 7 pin din plug, or a REMOTE connector this is the wiring instructions.

Pin 4 is Relay, Pin 2 is Ground, and Pin 6 is ALC.

Amplifier Relay Jack on all HF radio's is 1/2 amp or 500 ma. The ALC is Negative Driven with a threshold of -6 to -20.

To make the amplifier cable you need a 7 pin din plug. (Kenwood part number is E07-0751-05), and a shielded audio cable with a RCA male connector on one side (This is the most common connection on most linear amplifiers) and bare wire on the other end. The center wire is RELAY pin 4, and the outside shield is GROUND pin 2. ALC can be connected at pin 6.

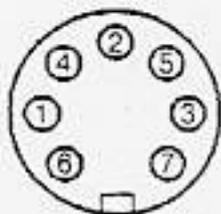
A premade amplifier cable may still be available through our parts department, and the part number is X42-1110-11.

Pacific Coast Parts (800) 262-1312  
15204 Staff Court (310) 515-0207  
Gardena, CA 90248 Fax(310) 538-4919  
Internet: <http://www.pacparts.com>  
E-Mail [orders@pacparts.com](mailto:orders@pacparts.com)

East Coast Transistor Parts (800) 637-0388  
2 Marlborough Road (516) 483-5742  
West Hempstead, NY 11552  
Fax (516) 483-5904  
9:00AM - 5:30PM EST

### 7 Pin Remote Plug

Amp relay contact rating:  
0.6 Amps at 125VAC  
0.6 Amps at 110VDC  
2.0 Amps at 30VDC



TS-120/130/140/180/430/440/450/530/570  
TS-680/690/830/850/870/940/950

Pin 1 Speaker Output  
Pin 2 Relay Common (Ground)  
Pin 3 PTT for Footswitch  
Pin 4 Relay Close On Transmit  
Pin 5 Relay Open On Transmit  
Pin 6 ALC Input  
Pin 7 12VDC On Transmit  
(10ma Max)  
Shell Earth (Ground)