

KENWOOD

Amateur Radio Division

Subject: Miscellaneous Connectors

Date: January 26, 1999

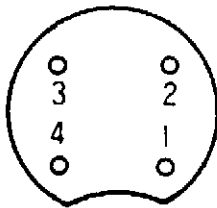
This information is provided "as is," and is subject to change without notice. Kenwood Service Corporation makes no warranty of any kind with regard to this information, including, but not limited to, the implied warranties of merchant ability and fitness for a particular purpose. Kenwood Service Corporation shall not be liable for any error or for incidental or consequential damage in connection with the furnishing, performance, or use of this information.

Microphone Connectors Pin Numbers Usually Imprinted in Insulator

4 Pin Microphone Plug

TR-7200A/7400A/7500

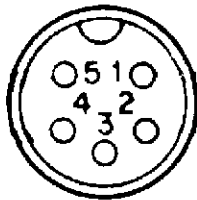
TS-120S/130S/180S/511S/520/530/600/700/820/830



- Pin 1 Microphone**
- Pin 2 Push To Talk**
- Pin 3 Chassis Ground**
- Pin 4 Microphone Ground**

5 Pin Microphone Plug

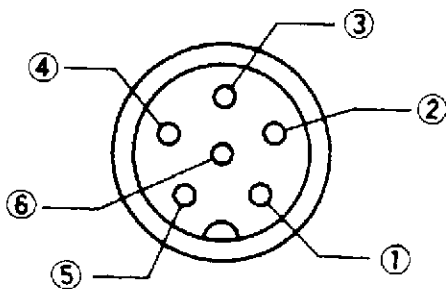
TR-7600/7625



- Pin 1 Microphone**
- Pin 2 Push To Talk**
- Pin 3 No Connection**
- Pin 4 Chassis Ground**
- Pin 5 Microphone Ground**

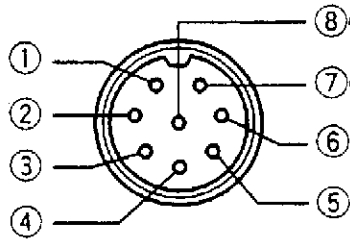
6 Pin Microphone Plug

TR-7730/7800/7850/7930/7950/8400/9000/9130/9500



- Pin 1 Microphone**
- Pin 2 Push To Talk**
- Pin 3 Down**
- Pin 4 Up**
- Pin 5 8VDC (150ma Max) Or N.C.**
- Pin 6 Chassis Ground**

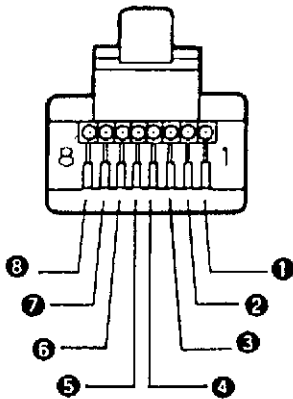
8 Pin Microphone Plug



TM-201A/201B/211/221/231/241/321/331
 TM-401A/401B/421/431/441/521/531/541
 TM-621/631/701/721/731/2530/2550/2570
 TR-50/751/851
 TS-50/60//140/430/440/450/570/660/670/680
 TS-690/711/780/811/850/870/930/940/950
 TW-4000/4100

- Pin 1 Microphone**
- Pin 2 Push To Talk**
- Pin 3 Down**
- Pin 4 Up**
- Pin 5 8VDC (150ma Max)**
- Pin 6 RX Audio (Some Models)**
- Pin 7 Microphone Ground**
- Pin 8 Chassis Ground**

8 Pin Modular Microphone Plug

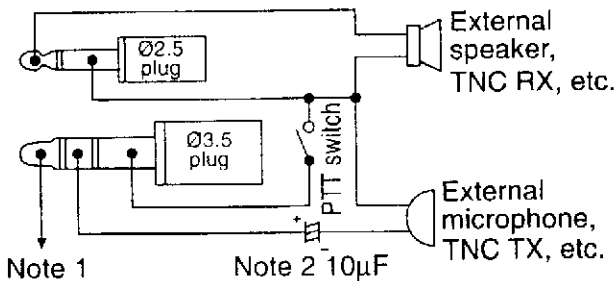


TM-251/255/261/451/455/461/641
 TM-642/732/733/741/742/941/942
 TM-G707/V7A

- Pin 1 Up**
- Pin 2 8VDC (150ma Max)**
- Pin 3 Chassis Ground**
- Pin 4 Push-To-Talk**
- Pin 5 Microphone Ground**
- Pin 6 Microphone**
- Pin 7 RX Audio (Some Models)**
- Pin 8 Down**

Speaker/Microphone Connection

TH-21AT/21BT/22/25/26/27/28/31AT/31BT
 TH-41AT/41BT/42/45/46/47/48/55/75/77
 TH-78/79/D7/G71/205/215/225/235/315/415



2.5mm Plug

- 1 Tip Speaker**
- 2 Sleeve Speaker & PTT Ground**

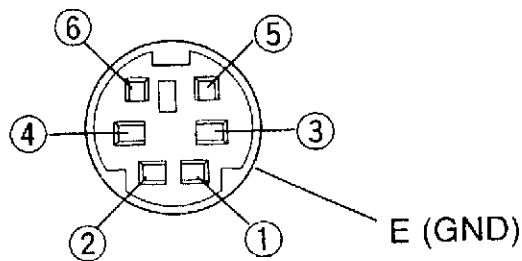
3.5mm Plug

- 1 Tip No Connection**
- 2 Ring Microphone**
- 3 Sleeve PTT**

Accessory and Data (Packet) Connectors Pin Numbers Usually Imprinted in Insulator

6 Pin Data Plug

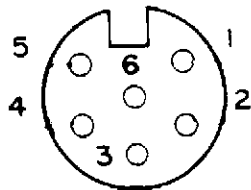
TM-251/451/G707/V7



- Pin 1 Data Input (Microphone)**
- Pin 2 Ground (Mic Ground)**
- Pin 3 Packet Standby (PTT)**
- Pin 4 9600bps RX Audio Output**
- Pin 5 1200bps RX Audio Output**
- Pin 6 Squelch Control Output**
- Shell Earth (Ground)**

6 Pin ACC Plug

TS-450/690/570/850/870/950

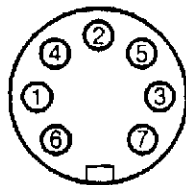


- Pin 1 GND Signal Ground**
- Pin 2 TXD Transmit Data**
- Pin 3 RXD Receive Data**
- Pin 4 CTS Transmit Enable**
- Pin 5 RTS Receive Enable**
- Pin 6 No Connection**
- Shell Earth (Ground)**

7 Pin Remote Plug

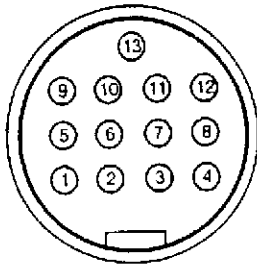
TS-120/130/140/180/430/440/450/530/570

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)**

13 Pin ACC 2 Plug



(Rear Panel view)

TS-140/440/450/680/690/570/711/790/811/850
TS-870/940/950

- Pin 1** N/C
- Pin 2** N/C
- Pin 3** **RX Audio Output**
- Pin 4** **Shield For Pin 3**
- Pin 5** **Squelch Control Or N/C**
- Pin 6** **S-Meter Output Or N/C**
- Pin 7** N/C
- Pin 8** **Chassis Ground**
- Pin 9** **PTT (Standard Mic
Input is Muted)**
- Pin 10** N/C
- Pin 11** **Microphone Input**
- Pin 12** **Shield for Pin 11**
- Pin 13** **PTT (Standard Mic
Input is Active)**
- Shell Earth (Ground)**

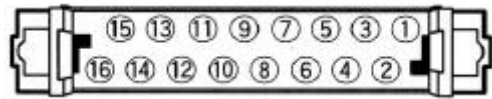


VC-H1 Wire Connections Using Optional Cable E30-3352-08

Color	Orange	Orange	Yellow	Yellow	White	White	Gray	Gray	Pink	Pink	Shield
Markings	Red	Black	Red	Black	Red	Black	Red	Black	Red	Black	Shield
Pin No.	4	5	6	7	8	9	11	13	14	15	16

Note: Pins 1, 2 and 10 are not connected. Pins 3 and 12 are jumpered.

Pin 1 is indicated by a triangle



VC-H1 Connections for SSTV and speaker microphone	
Wire Color	VCH1 Pin No.
Orange/Red	4 → Chassis Ground
Shield	16
Yellow/Black	7 → PTT
Gray/Red	11
Pink/Red	14 → Audio Input (Microphone)
White/Black	9 → Audio Output **
Gray/Black	13

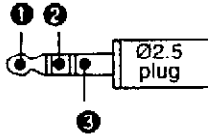
VC-H1 Connections for SSTV	
Wire Color	VCH1 Pin No.
Orange/Red	4 → Chassis Ground
Shield	16
Yellow/Black	7 → PTT
White/Red	8 → Audio Input (Microphone)
White/Black	9 → Audio Output **

VC-H1 Connections for TS-570/TS-870	
Wire Color	VCH1 Pin No.
Orange/Red	4 → 8 Chassis Ground
Yellow/Black	7 → 9 PTT
Yellow/Red	8 → 11 Audio Input
White/Black	9 → 3 Audio Output
Shield	16 → 12 Shield 4

** A 47uf 16v capacitor may be needed to avoid audio distortion

Specialized Connections and Cables

TH-D7A



GPS Connection

2.5mm Plug

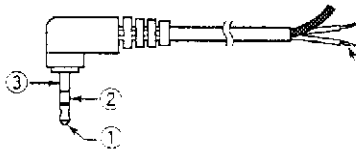
- | | |
|----------|---------------|
| 1 Tip | To RXD on GPS |
| 2 Ring | To TXD on GPS |
| 3 Sleeve | Ground |

PC Connection

2.5mm Plug

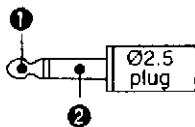
- | | |
|----------|--------------|
| 1 Tip | To RXD on PC |
| 2 Ring | To TXD on PC |
| 3 Sleeve | Ground |

Supplied Cable Part No E30-3374-05



- | | |
|----------|------------|
| 1 White | RXD On GPS |
| 2 Red | TXD On GPS |
| 3 Shield | GND On GPS |

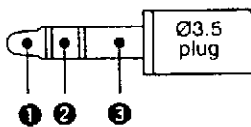
VC-H1



Video Output Plug

2.5mm Plug

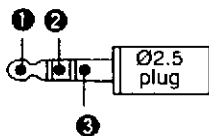
- | | |
|----------|--------------|
| 1 Tip | Video Signal |
| 2 Sleeve | Ground |



Video Input Plug

3.5mm Plug

- | | |
|----------|--------------------------------|
| 1 Tip | N/C (For VC-H1
Camera ONLY) |
| 2 Ring | Video Signal |
| 3 Sleeve | Ground |



Com Jack Connection

2.5mm Plug

- | | |
|----------|--------------|
| 1 Tip | To RXD on PC |
| 2 Ring | To TXD on PC |
| 3 Sleeve | Ground |