

# KENWOOD

Amateur Radio Division

**Subject:** Miscellaneous Connectors

**Date:** January 26, 1999

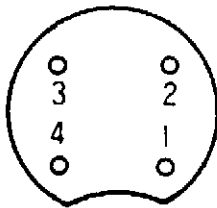
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## Microphone Connectors Pin Numbers Usually Imprinted in Insulator

### 4 Pin Microphone Plug

TR-7200A/7400A/7500

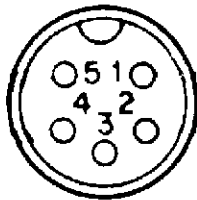
TS-120S/130S/180S/511S/520/530/600/700/820/830



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

### 5 Pin Microphone Plug

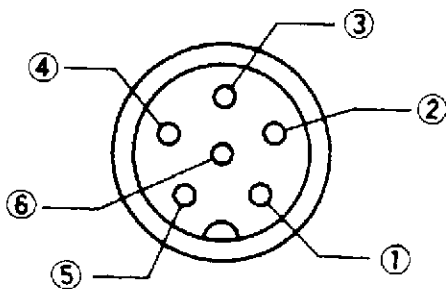
TR-7600/7625



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

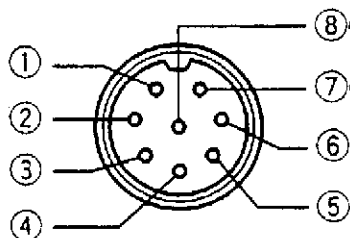
### 6 Pin Microphone Plug

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**

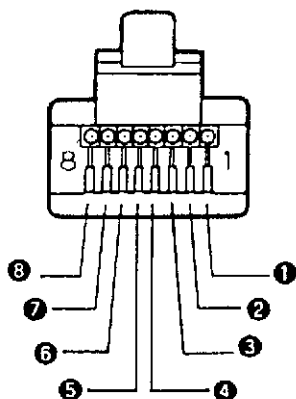
## 8 Pin Microphone Plug



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

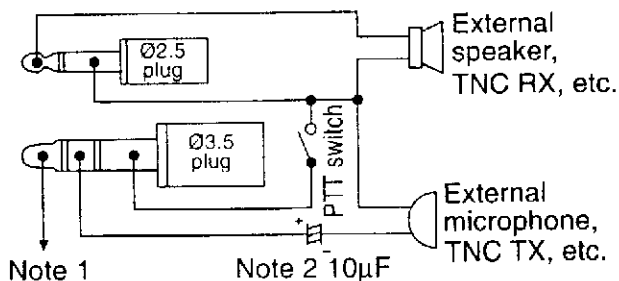


TM-251/255/261/451/455/461/641  
 TM-642/732/733/741/742/941/942  
 TM-G707/V7A

- 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**

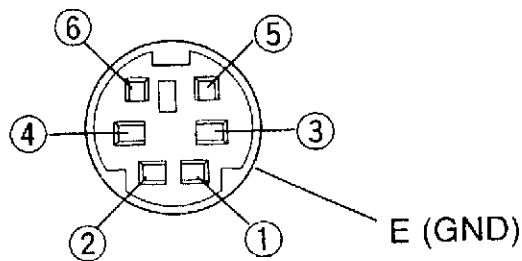
### **3.5mm Plug**

- 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

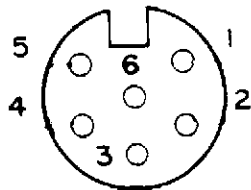
TM-251/451/G707/V7



- 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

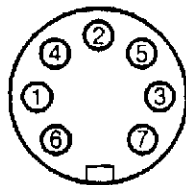


- Pin 1 GND Signal Ground**
- Pin 2 TXD Transmit Data**
- Pin 3 RXD Receive Data**
- Pin 4 CTS Transmit Enable**
- Pin 5 RTS Receive Enable**
- Pin 6 No Connection**
- Shell Earth (Ground)**

### 7 Pin Remote Plug

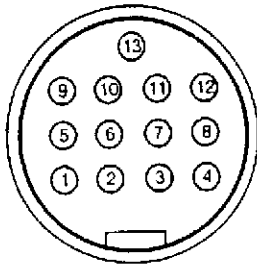
TS-120/130/140/180/430/440/450/530/570

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)**

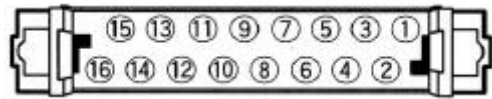


## VC-H1 Wire Connections Using Optional Cable E30-3352-08

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

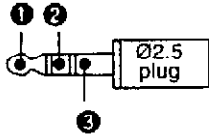
VC-H1 Connections for SSTV	
Wire Color	VCH1 Pin No.
Orange/Red	4 → Chassis Ground
Shield	16
Yellow/Black	7 → PTT
White/Red	8 → Audio Input (Microphone)
White/Black	9 → Audio Output **

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

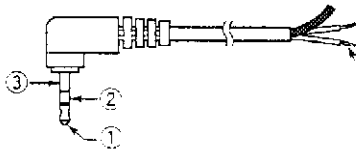
- 1 Tip To RXD on GPS
- 2 Ring To TXD on GPS
- 3 Sleeve Ground

### PC Connection

#### 2.5mm Plug

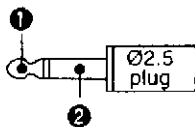
- 1 Tip To RXD on PC
- 2 Ring To TXD on PC
- 3 Sleeve Ground

## Supplied Cable Part No E30-3374-05



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

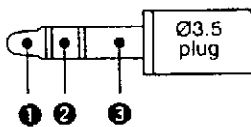
## VC-H1



### Video Output Plug

#### 2.5mm Plug

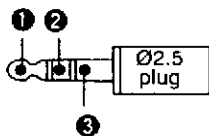
- 1 Tip Video Signal
- 2 Sleeve Ground



### 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