

KENWOOD

Amateur Radio Division

Subject: Miscellaneous Connectors

Date: January 26, 1999

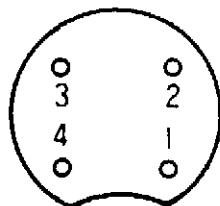
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Microphone Connectors Pin Numbers Usually Imprinted in Insulator

4 Pin Microphone Plug

TR-7200A/7400A/7500

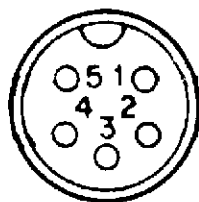
TS-120S/130S/180S/511S/520/530/600/700/820/830



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

5 Pin Microphone Plug

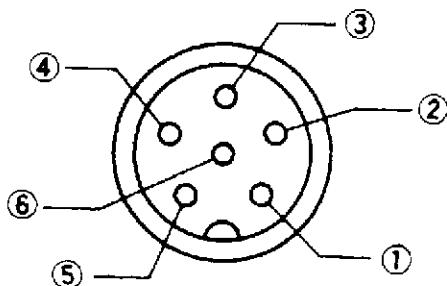
TR-7600/7625



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

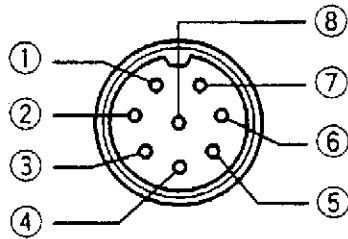
6 Pin Microphone Plug

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**

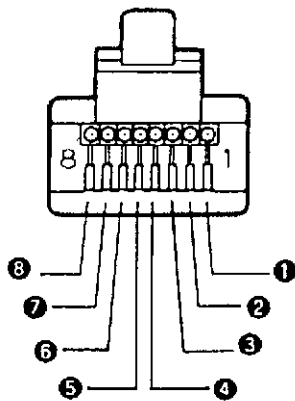
8 Pin Microphone Plug



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

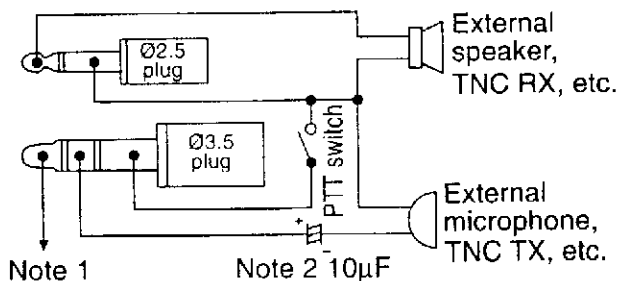
8 Pin Modular Microphone Plug



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

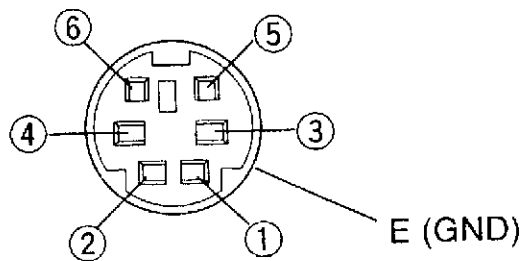
1 Tip **No Connection**
2 Ring **Microphone**
3 Sleeve **PTT**

Accessory and Data (Packet) Connectors

Pin Numbers Usually Imprinted in Insulator

6 Pin Data Plug

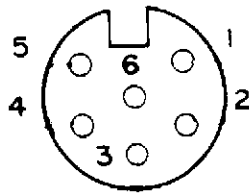
TM-251/451/G707/V7



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

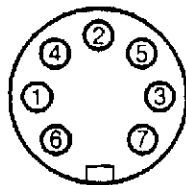


Pin 1 GND Signal Ground
Pin 2 TXD Transmit Data
Pin 3 RXD Receive Data
Pin 4 CTS Transmit Enable
Pin 5 RTS Receive Enable
Pin 6 No Connection
Shell Earth (Ground)

7 Pin Remote Plug

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

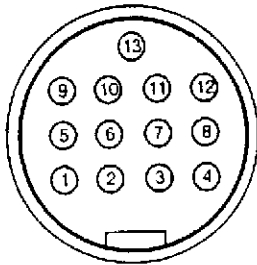
TS-680/690/830/850/870/940/950



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

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



(Rear Panel view)

- 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)**

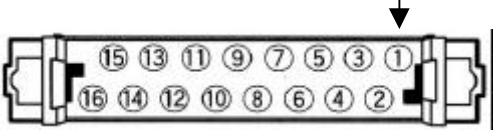


VC-H1 Wire Connections Using Optional Cable E30-3352-08

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	

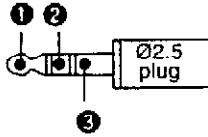
VC-H1 Connections for SSTV		
Wire Color	VCH1 Pin No.	
Orange/Red	4	→ Chassis Ground
Shield	16	
Yellow/Black	7	→ PTT
White/Red	8	→ Audio Input (Microphone)
White/Black	9	→ Audio Output **

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

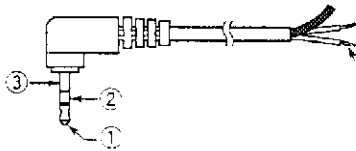
1 Tip	To RXD on GPS
2 Ring	To TXD on GPS
3 Sleeve	Ground

PC Connection

2.5mm Plug

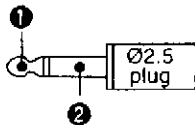
1 Tip	To RXD on PC
2 Ring	To TXD on PC
3 Sleeve	Ground

Supplied Cable Part No E30-3374-05



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

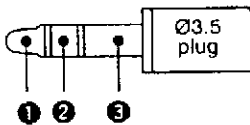
VC-H1



Video Output Plug

2.5mm Plug

1 Tip	Video Signal
2 Sleeve	Ground



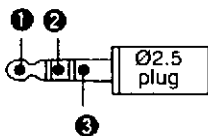
Video Input Plug

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