KENWOOD

Amateur Radio Division

Subject: Miscellaneous Connectors **Date:** January 26, 1999

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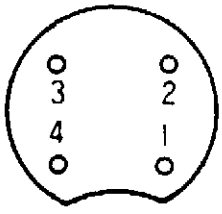
Microphone Connectors

Pin Numbers Usually Imprinted in Insulator

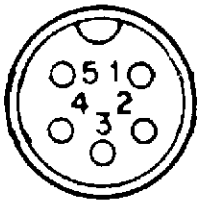
4 Pin Microphone Plug



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

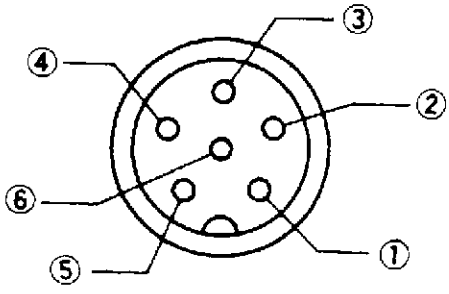
5 Pin Microphone Plug



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

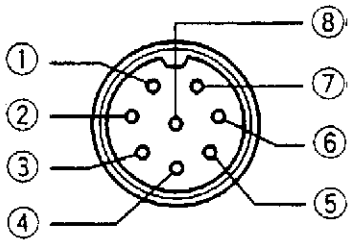


TR-7730/7800/7850/7930/7950/8400/9000/9130/9500

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

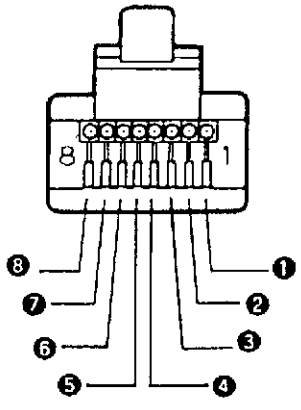
TM-201A/201B/211/221/231/241/321/331
TM-401A/401B/421/431/441/521/531/541
TM-621/631/701/721/731/2530/2550/2570
TR-50/751/851
TS-50/60//140/430/440/450/570/660/670/680
TS-690/711/780/811/850/870/930/940/950
TW-4000/4100



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

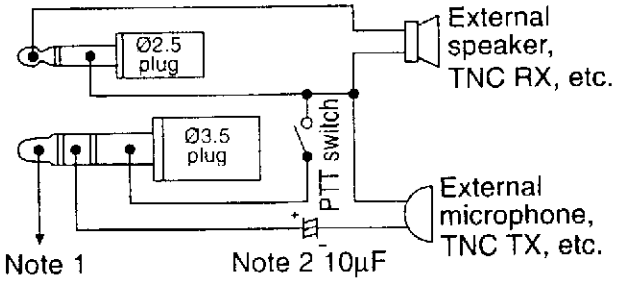
TM-251/255/261/451/455/461/641
TM-642/732/733/741/742/941/942
TM-G707/V7A



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**

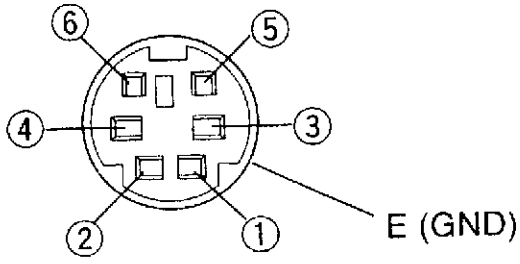
3.5mm Plug

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

Accessory and Data (Packet) Connectors

Pin Numbers Usually Imprinted in Insulator

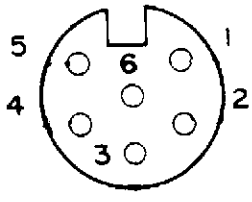
6 Pin Data Plug



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)

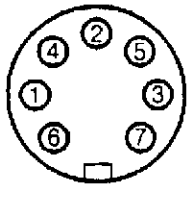
6 Pin ACC Plug



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

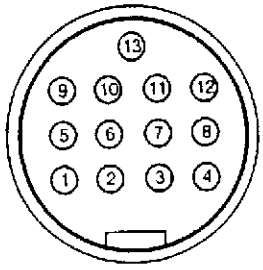


TS-120/130/140/180/430/440/450/530/570
TS-680/690/830/850/870/940/950

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)

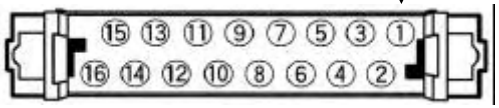
Pin 1 N/C
Pin 2 N/C
Pin 3 RX Audio Output
Pin 4 Shield For Pin 3
Pin 5 Squelch Control Or N/C
Pin 6 S-Meter Output Or N/C
Pin 7 N/C
Pin 8 Chassis Ground
Pin 9 PTT (Standard Mic Input is Muted)
Pin 10 N/C
Pin 11 Microphone Input
Pin 12 Shield for Pin 11
Pin 13 PTT (Standard Mic Input is Active)
Shell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

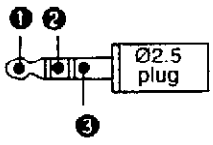
VC-H1 Connections for TS-570/TS-870

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

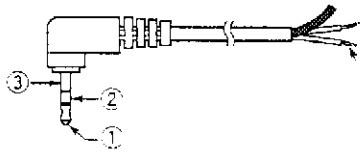
1 Tip	**To RXD on GPS**
2 Ring	**To TXD on GPS**
3 Sleeve	**Ground**

PC Connection

2.5mm Plug

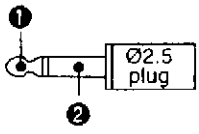
1 Tip	**To RXD on PC**
2 Ring	**To TXD on PC**
3 Sleeve	**Ground**

Supplied Cable Part No E30-3374-05



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

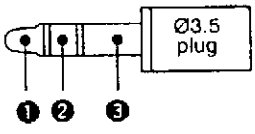
VC-H1



Video Output Plug

2.5mm Plug

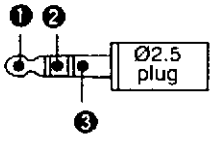
1 Tip	**Video Signal**
2 Sleeve	**Ground**



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**

K4XL's BAMA

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