

Only for radios that are capable and/or have a 9600 external data menu

JP3 UP for higher TX audio when connected to a 9600 capable transmitter



KH7O Signalink Wiring

<https://www.hawaiirepeaters.net/wiring.pdf>

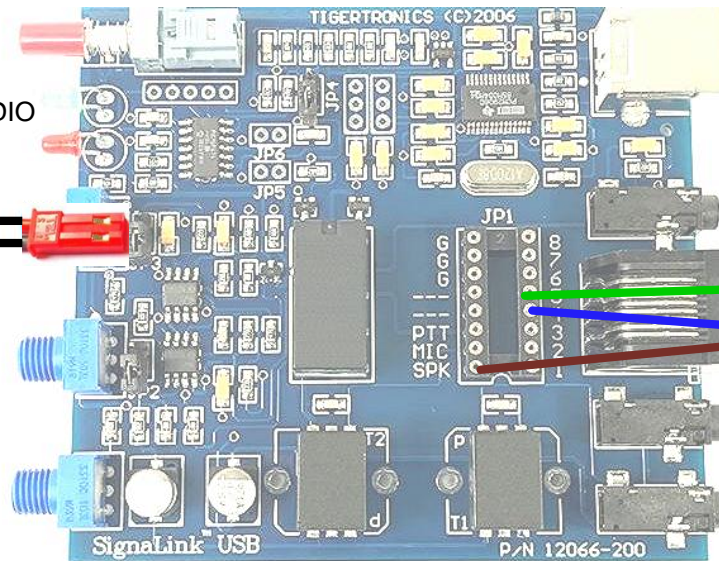
NOTE: sw is to select pin 4 or 5 of RX audio wiring from radio to Signalink.

IF **ONLY** 1200 or 9600 you do not need this switch.

1200- jumper RJ45 pin 5 to SPK
9600-jumper RJ45 pin 4 to SPK

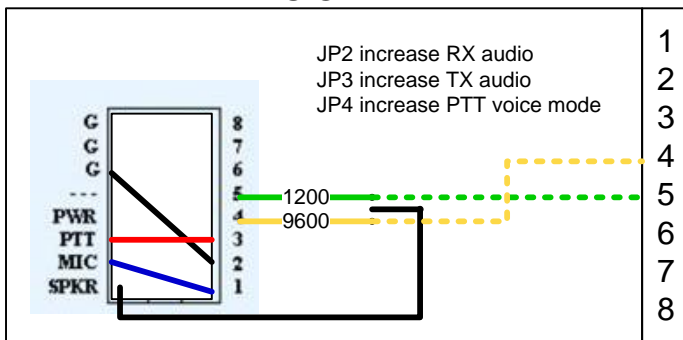
JP3 JUMPERED for higher level of TX AUDIO such as Kenwood TMD710 ICOM IC208H

JP3 NOT JUMPERED for non 9600 capable radios



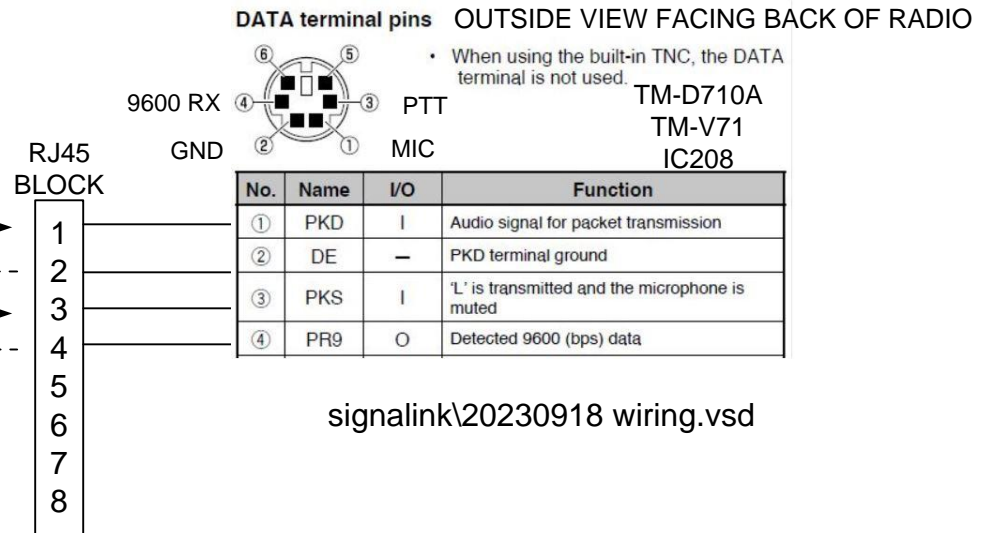
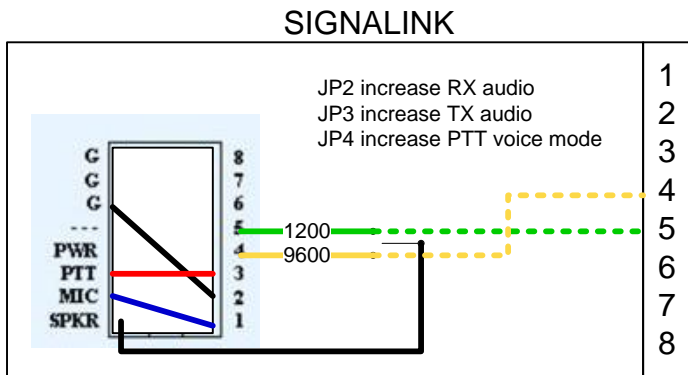
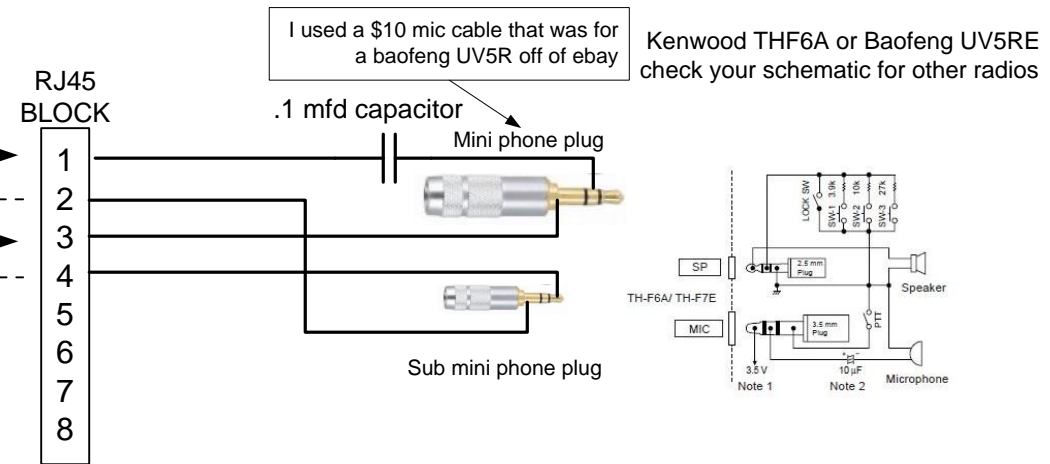
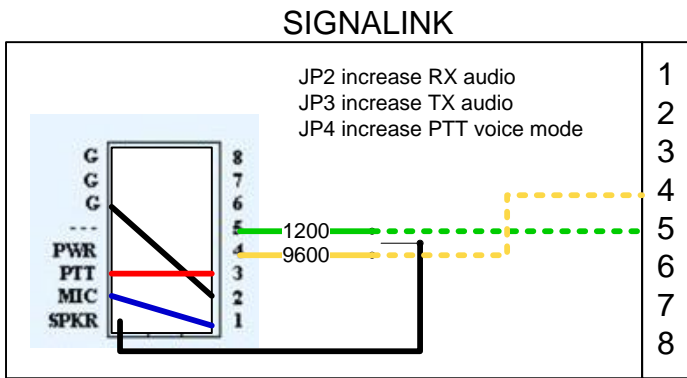
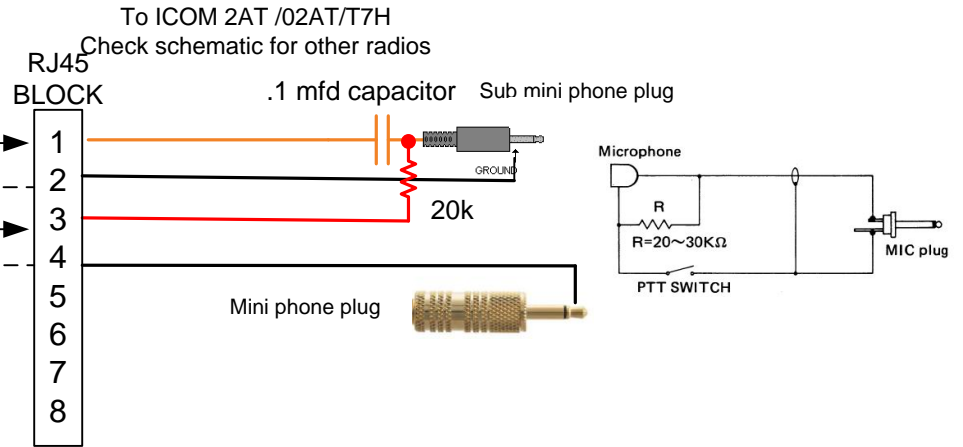
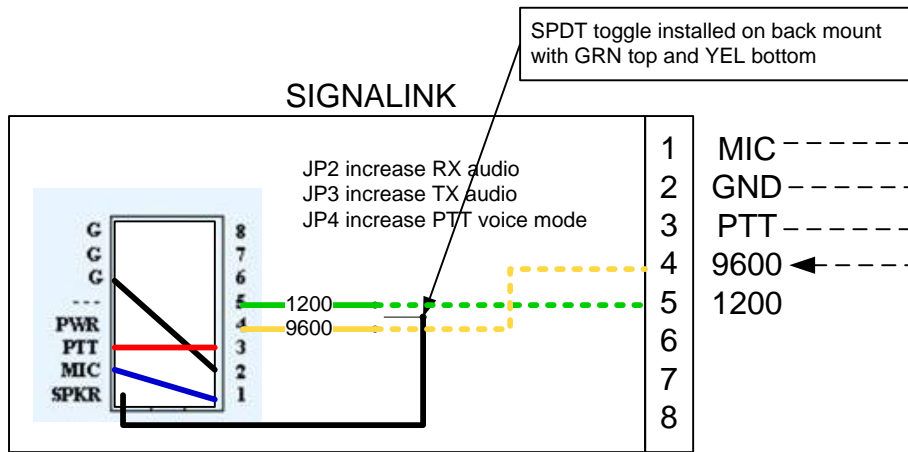
1200 for ALL HF and low speed VHF
9600 only for VHF high speed capable transceiver (radio must have menu to switch between 1200/9600)

SIGNALINK

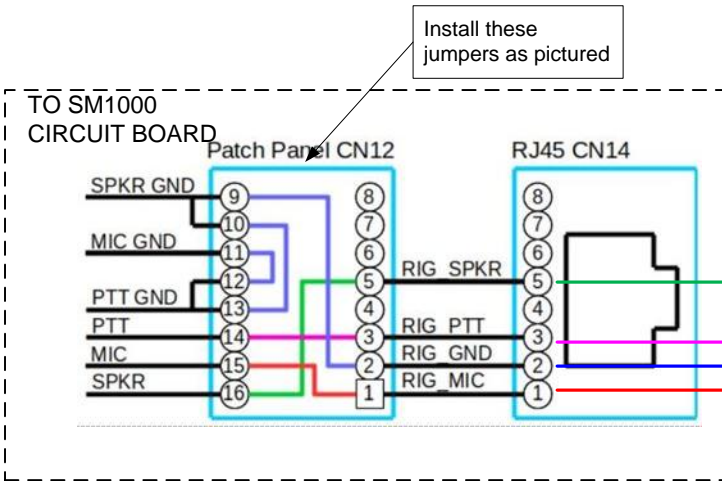


- Pin #1 White/Orange
- Pin #2 Orange
- Pin #3 White/Green
- Pin #4 Blue
- Pin #5 White/Blue
- Pin #6 Green
- Pin #7 White/Brown
- Pin #8 Brown

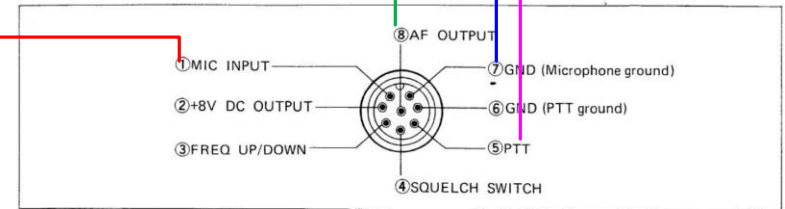
signalink\20230918 wiring.vsd



IC761 /IC7200/IC7300 HF



5-6 MIC CONNECTOR INFORMATION

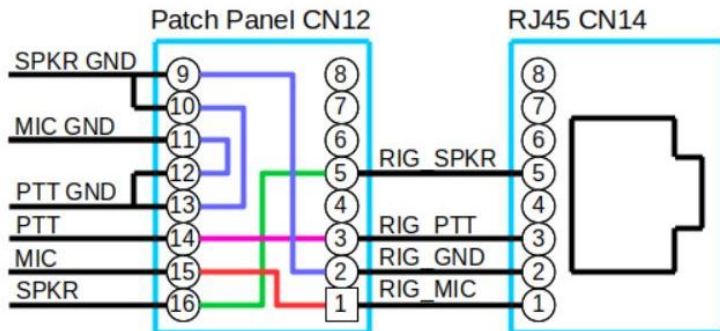


From manual front view facing radio this is panel jack IC761

PIN NO.	FUNCTION	DESCRIPTION
②	+8V DC OUTPUT	Max. 10mA
③	FREQ UP	Ground
	FREQ DOWN	Ground through a 470Ω resistor
④	SQL OPEN	"LOW" level
	SQL CLOSE	"HIGH" level

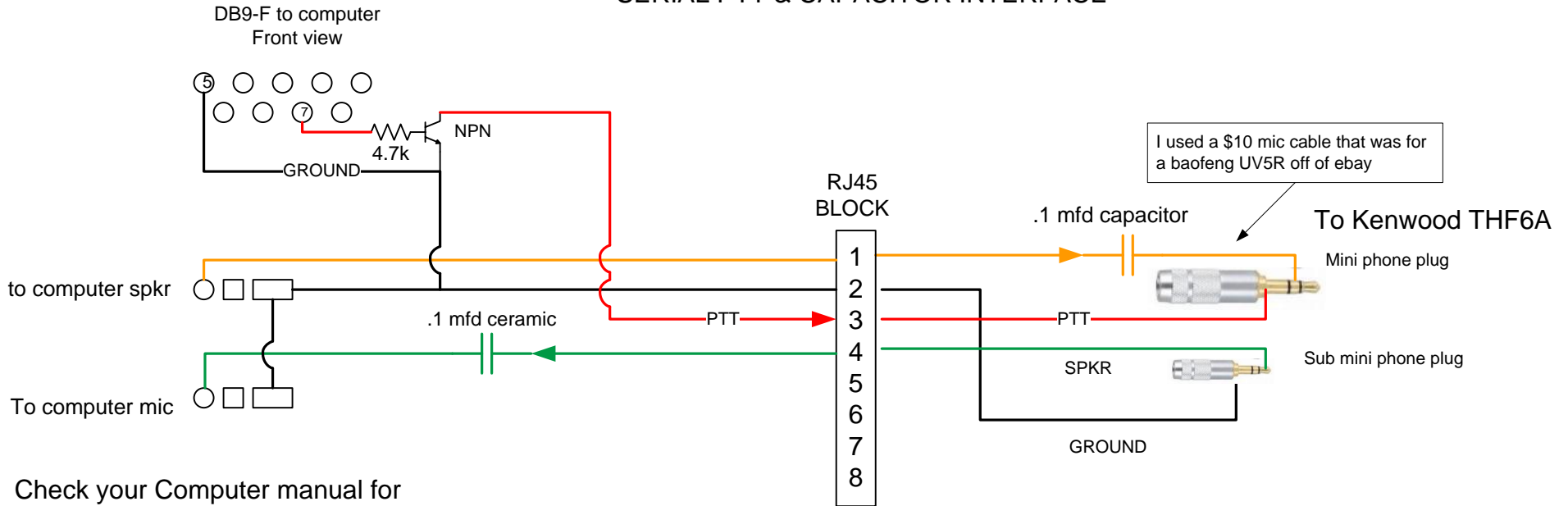
CAUTION: DO NOT short pin 2 to GROUND as this can damage the inside 8V regulator.

. RJ45 connection to your radio – The CN12 Patch Panel is configured to connect the audio and PTT connections to your radio. You only need to configure the CN12 Patch Panel if you are using the RJ45. If you are using the 3.5mm connectors you do not need to configure the CN12 Patch Panel. Here is an example for a Yaesu radio:



SM1000 DIGITAL VOICE WIRING

SERIAL PTT & CAPACITOR INTERFACE



Check your Computer manual for microphone and speaker pinout.

WARNING use at your own risk as this is a simplified interface without level limits in either direction that was tested and used on HP Pavilion computers with a generic USB to DB9 serial adapter

This adapter does not use isolated ground between radio and computer.

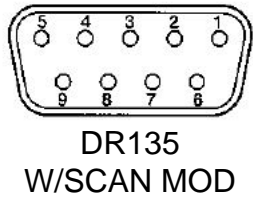
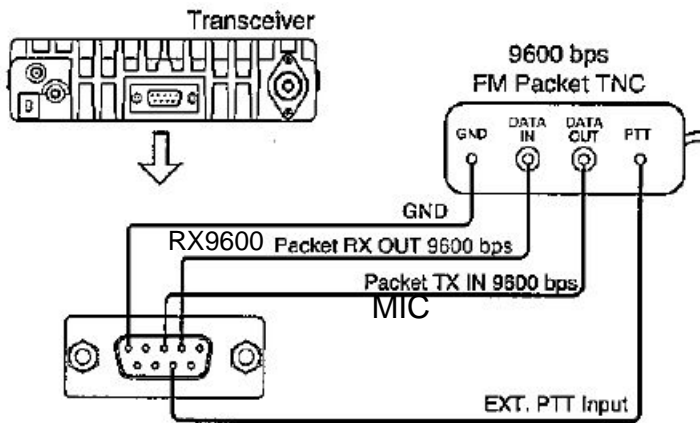
EXAMPLE SET UP:

- 1) I set computer spkr slider for 30
- 2) VARA PTT select your comm port #
- 3) start with minimal radio spkr output level then increase



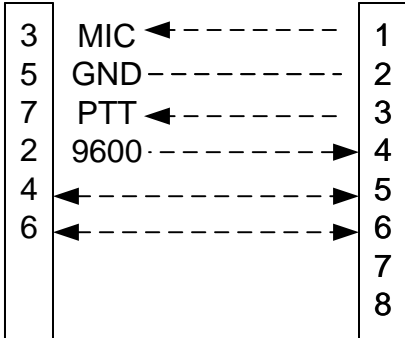
This wiring works on

- Baofeng UV5RA
- Baofeng UV5RE
- Baofeng BTECH DMR 6x2
- Kenwood TH-F6A
- TYT MD UV 380



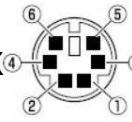
Pin numbering
looking at rear of radio

DB9 TO DR135
SCAN MOD



MINI DIN 6 TO RED ADAPTER

DATA terminal pins



• When using the built-in TNC, the DATA terminal is not used.

9600 RX
GND
PTT
MIC

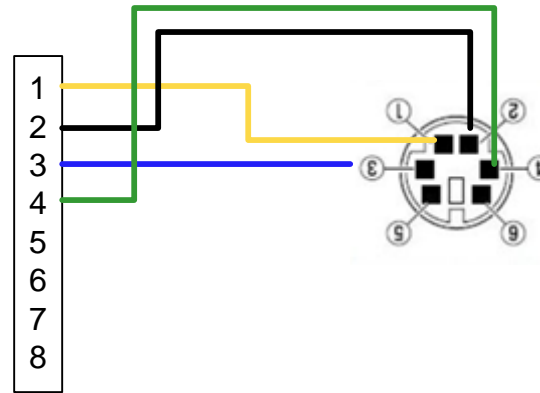
No.	Name	I/O	Function
①	PKD	I	Audio signal for packet transmission
②	DE	—	PKD terminal ground
③	PKS	I	'L' is transmitted and the microphone is muted
④	PR9	O	Detected 9600 (bps) data

DRA-45 DB9 Pinout:

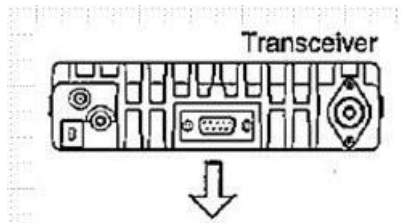
- 1 = Main TX Audio
- 2 = Not Used - (AllStar hardware COS input when JU3 is installed)
- 3 = PTT
- 4 = Not Used - (AllStar hardware CTCSS input when JU4 is installed)
- 5 = RX Audio
- 6 = Ground
- 7 = Local Control or Alarm Trip
- 8 = Not Used - (Aux TX Audio when JU5 is installed)
- 9 = External Power for the Audio Amps (when JU2 is in the "B" position).

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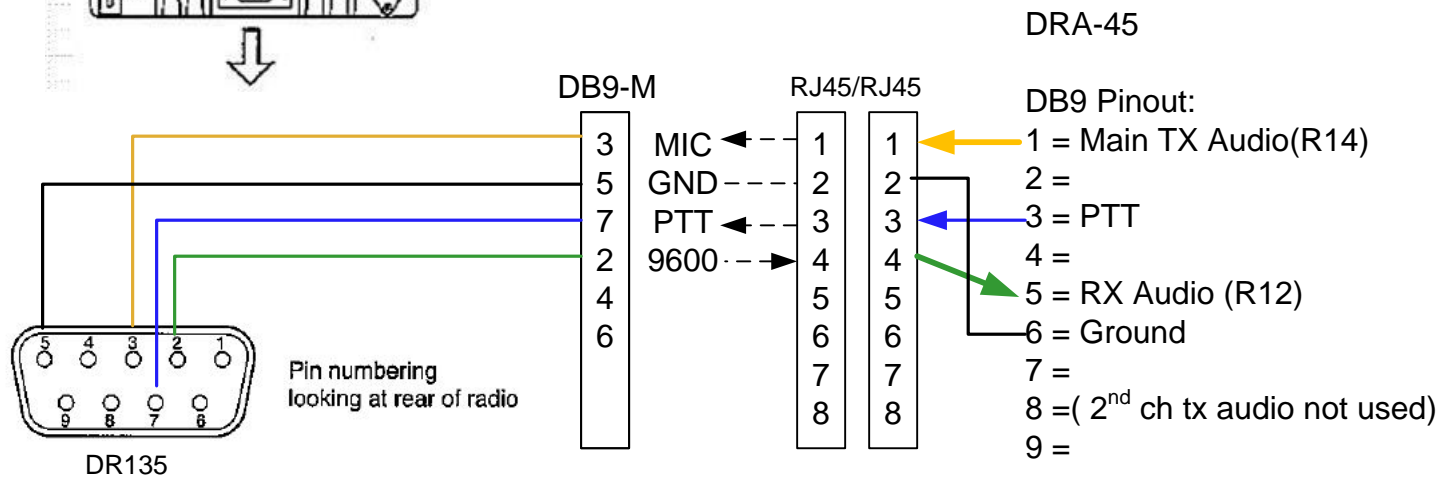
ALINCO DR135 TO DRA50&RED ADAPTER



VIEW LOOKING AT
ADAPTER JACK FROM
OUTSIDE RADIO



ALINCO DR135 TO RA45 W/DB9 CONNECTOR



DR135 /RA45 setup hp laptop can achieve 25k up/dn

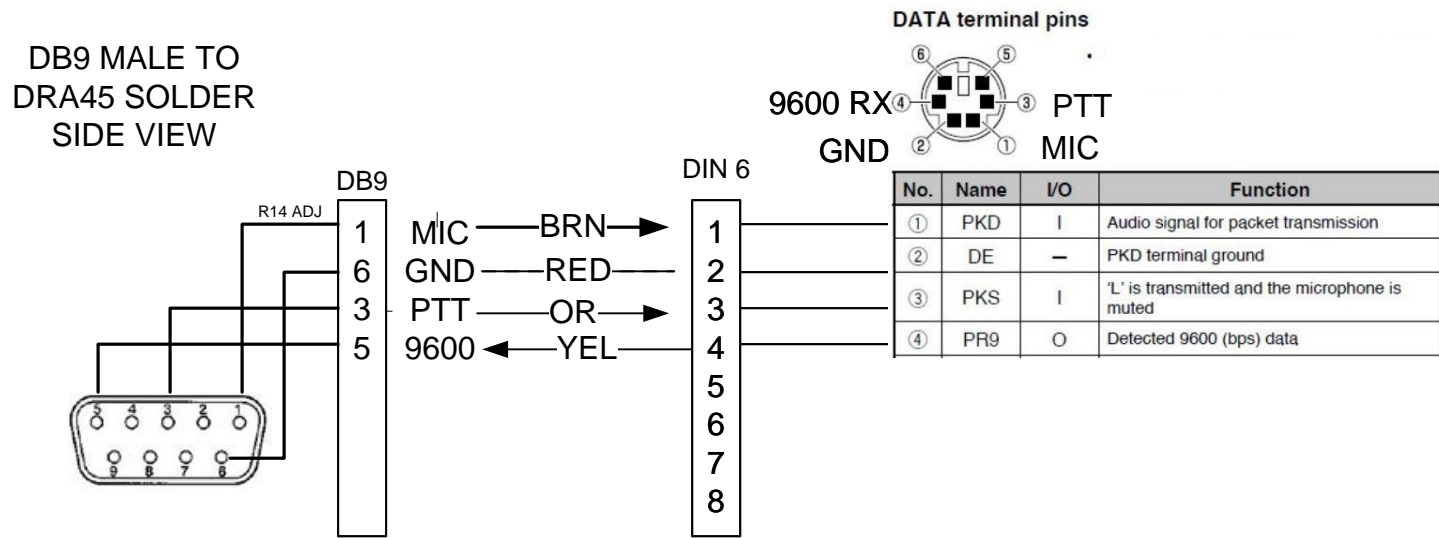
RX DATA bps affected by windows/manage audio/playback spkr lvl if set below 100 therefore set 100.
use R12 to set 2pm position on vara with receiver unscquelched.

TX DATA bps at 25k set windows spkr slider 100 & vara spkr output slider . adjust deviation with R14 on RA45 to 1.8khz on service monitor.

note: this procedure does NOT apply to custom **RED adapter that has no internal TX adj** so need to adjust TX DATA **with the windows spkr slider** . Preset vara spkr slider 0db

Masters DRA45 to ICOM ID-880H

MINI DIN 6 ICOM 880H

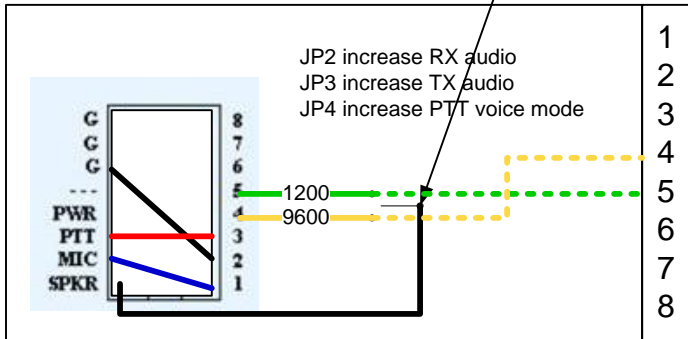


14.4K Best TX load test when ID880H set 1200 and VARA set WIDE

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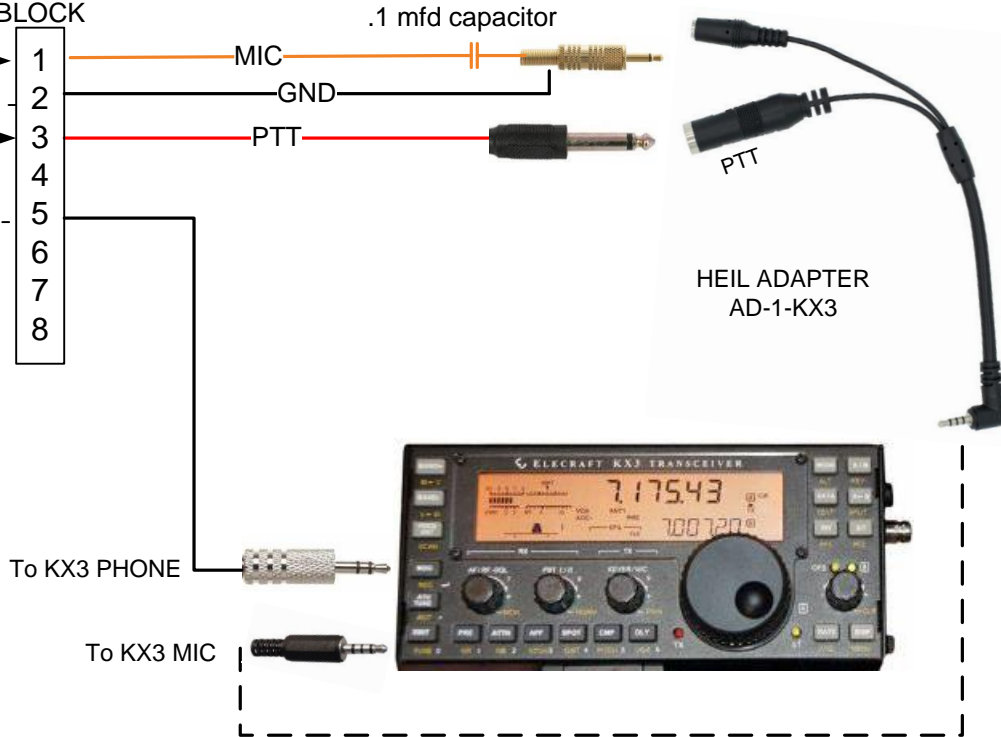
SIGNALINK

SPDT toggle installed on back mount with GRN top and YEL bottom



RJ45 BLOCK

MIC
GND
PTT
9600
1200



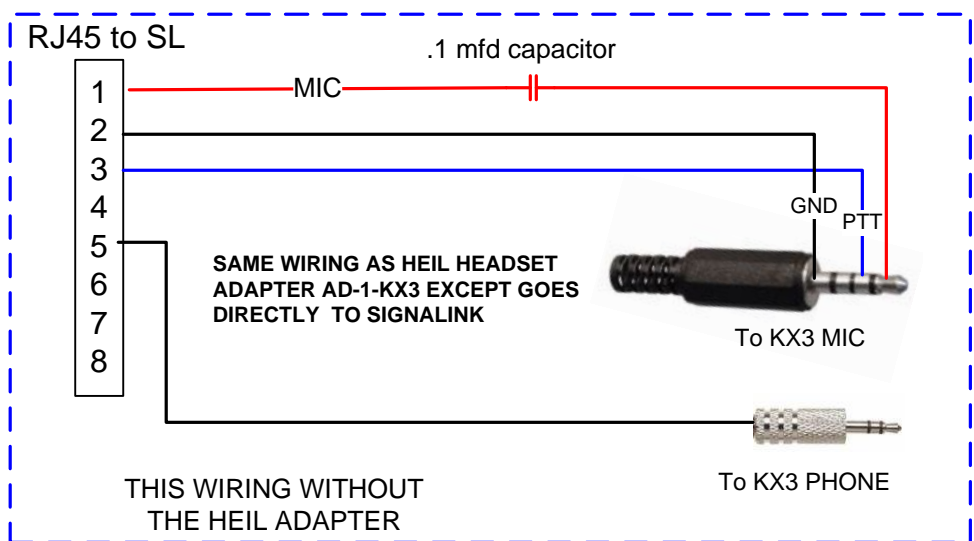
WINLINK

[RATE] for fine-tuning.
Push. [KEYER/MIC] for CMP/ALC or RF mtr
Push. [KEYER/MIC] 1s to adjust RF power
Push [MODE] 1s for USB LSB
set CMP to 0
set MIC to 10

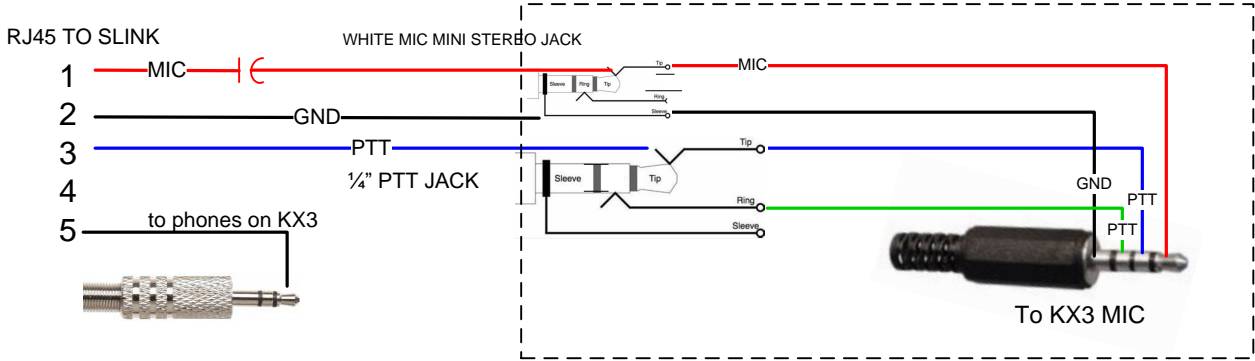
set VARA slider -10db

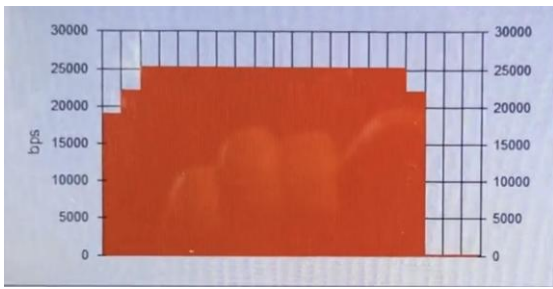
SSB VOICE

[MODE] SSB voice USB/LSB
[RATE] for fine-tuning
AF10
MIC 60
[CMP] 20
[KEYER/MIC] toggle for RF PWR/SWR meter
[KEYER/MIC] toggle for CMP/ALC meter
[KEYER/MIC] 1s to adj RF PWR out



HEIL HEADSET ADAPTER AD-1-KX3



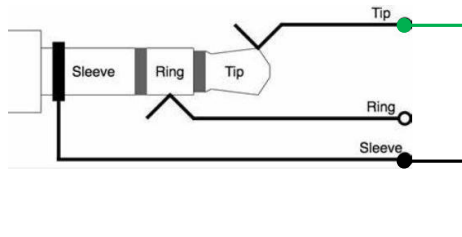


25K with this setup

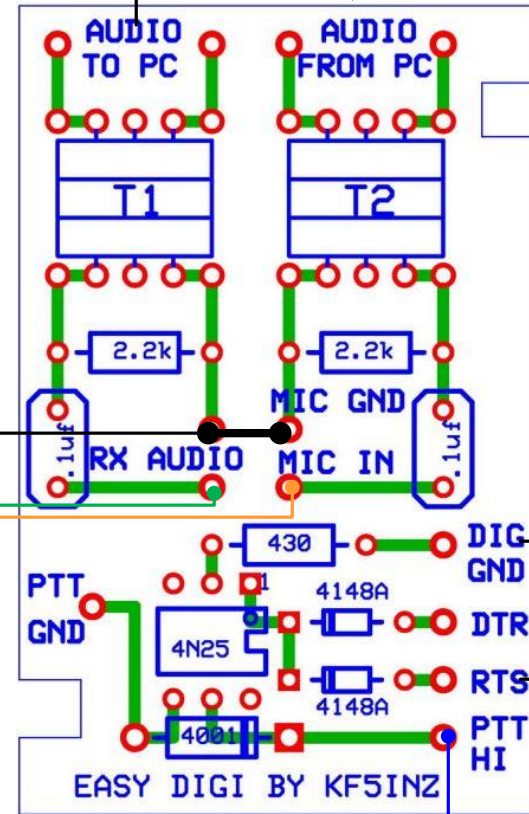
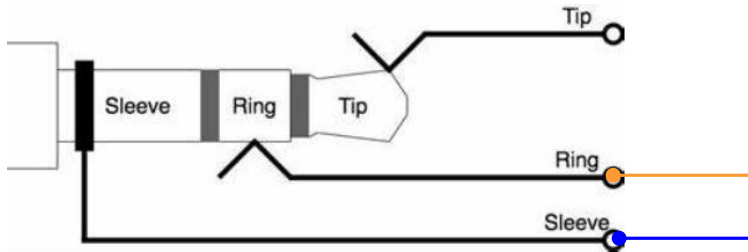


THF6A

spkr



mic



KF5INZ audio interface board from ebay

db9-7 RTS db9 pin 5 gnd

serial adapter to computer if no db9 already on computer



keyspan