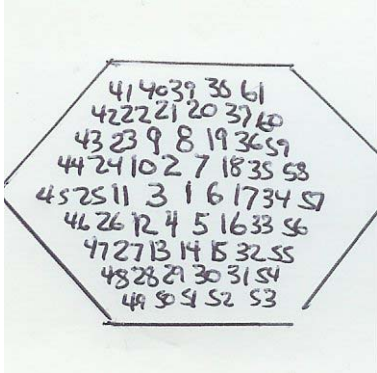


## PRC-174 Control Connector Pinout and Signal Descriptions

### 61-pin Israeli (small or hex) version



- 1 X23 1khz BCD8
- 2 X50 1mhz BCD1
- 3 X30 10khz BCD1
- 4 X11 100hz BCD2
- 5 X10 100hz BCD1
- 6 X22 1khz BCD4
- 7 X43 100khz BCD8
- 8 REM CONT (ground to enable remote control)
- 9 N/C
- 10 X51 1mhz BCD2
- 11 X31 10khz BCD2
- 12 X12 100khz BCD4
- 13 IND (high to enable indicator functions)
- 14 GND
- 15 VOL REMOTE (remote volume control)
- 16 BAT IN (battery pack in, might be able to charge with this pin)
- 17 X21 1khz BCD2
- 18 X42 100khz BCD4
- 19 TRANSIT (pulse when 10mhz, 1mhz, 100khz or 10khz are changed)
- 20 NCW (high when narrow CW is selected)
- 21 WCW (high when wide CW is selected)
- 22 DATA (high when data is selected)
- 23 12V REM (12 volts when remote is selected)
- 24 X52 1mhz BCD4
- 25 X32 10khz BCD4
- 26 X13 100hz BCD8
- 27 BATT CHK (high to enable battery check and LED display)
- 28 TX LEVEL (high to enable power out and LED display)
- 29 TUNE (high when radio is tuning)
- 30 FO UNLOCK (high when synthesizer is unlocked)

31 N/C  
32 S METER (analog RSSI)  
33 DIP (high when radio on dipole, low when on whip)  
34 X20 1khz BCD1  
35 X41 100khz BCD2  
36 X60 1mhz BCD1  
37 AM (high to enable AM mode)  
38 OFF (LOW when off – 24v when hi, caution)  
39 ON (LOW when on – 24v when hi, caution)  
40 USB (LOW when on USB, 12v when hi)  
41 R/T (LOW when tx enabled, 12v when hi)  
42 SSB (high to enable SSB mode)  
43 N/C  
44 X53 1mhz BCD8  
45 X33 10khz BCD8  
46 N/C – book says N/C but had some kind of pulsing on it  
47 SAVE/SQUELCH (hi batt save mode on 174, squelch mode on 174S)  
48 NO MATCH (high when no match found)  
49 MIC GND  
50 MIC HI  
51 PHONE (handset rx audio)  
52 PTT  
53 +12V  
54 ALC (not sure about this one...)  
55 PTT 12V  
56 BP (PA) (ground to bypass PA when using external amp, 100mw out)  
57 FIXED AUDIO (100mv fixed audio)  
58 X40 100khz BCD1  
59 X61 1mhz BCD2  
60 N/C – book says N/C but had some kind of pulsing on it  
61 LT (M.N. BP) matching network bypass

All BCD levels for frequency control are 12v high to enable that digit.

For 66-pin round connector, add these pins:

62 SQUELCH  
63 N/C  
64 N/C  
65 MIC  
66 GND