

ProTek Long Loop Modification

03/20/97

ProTek jr

All firmware versions

Modification Procedures

The following modification to the ProTek jr may help those experiencing difficulty connecting reliably due to marginal phone line performance. This modification need not be done unless such difficulties are encountered. The modification, which should take less than 10 minutes, will increase outgoing audio, DTMF, and modem levels by approximately 8 dB. To modify your ProTek please perform the following steps:

Unreliable connection to marginal phone line performance. To connect the ProTek to marginal phone line performance, you must first disconnect the ProTek from the phone line and place the unit in front of you with the ProTek front panel facing you. The local VDT port and status LEDs are on the front panel.

- 2 Find the three tubular electrolytic capacitors in the right front quadrant of the printed circuit board.
- 3 One inch to the left of the middle tubular capacitor (C2) you will see a ceramic capacitor labeled C17.
- 4 The resistor directly behind C17 (toward the 50 pin site interface connector) is R19, a 22K ohm carbon film resistor. You will see a short trace leading from C17 directly to R19. The silk screened R19 label is hidden under R19.
- 5 Replace this resistor with a 47K ohm resistor, preferably of carbon film construction.
- 6 Reinstall the ProTek cover.

Should you have any questions, please call (919) 518-1828.