Yaesu FT-100/100D
Pactor-II/III Modem Configuration Parameters

Under TOOLS/OPTIONS/CONNECTION TAB, enter the following:		
Modem type		PTC-IIusb
COM port		Choose appropriate Com port*
Baud rate		115200 PTC-IIusb
Reset Modem		Check the box
Center frequency		1500
Set modem tones		Check in the box
Amplitudes FSK**	FIRST SET THE FT-100D'S AFSK LEVEL SET TO 15% See "Radio Settings" below.	470 (PTC-IIPRO). OTHER MODEM MODELS TBD
Amplitudes PSK**		627 (PTC-IIPRO). OTHER MODEM MODELS TBD
USB (Upper Sideband)		Dot in the circle in front of "USB"
TxDelay (ms)		20
Radio connection		Direct using PTC-II control port
PTC-IIpro / PTC-IIusb RS-232		No check in the box
Radio type		Yaesu
Baud Rate		4800

Yaesu FT-100D Radio Settings
(Refer to Yaesu Operating Manual, Menu Operation, pages 82 - 94)

Set *AFSK Level* setting #28 to 15. This reduces the audio amplification gain through the radios Data Jack, to which the 8120 cable is connected. This helps reduce possible hum and noise on the transmitted signal.	Press the FUNC BUTTON, and then rotate the SELECT KNOB to menu selection #28. Rotate the DIAL KNOB until the value shown on the radio's LCD display shows 15.

* When setting the transmit power be sure to stay within the radio manufacturers RF output specifications (usually 50% of the 100 watt rated output of the radio. Settings are approximate may vary slightly between modems and radios.

*PTC-IIusb users: You can find the Com port assigned to your PTC-IIusb by going into the control panel and clicking on SYSTEM, HARDWARE, DEVICE MANAGER, PORTS COM & LPT. The COM port assigned to your PTC-IIusb will be listed here if the PTC-IIusb is correctly installed. If you your PTC-IIusb doesn't show up, unplug the PTC-IIusb from your computer, reinstall the PTC-IIusb driver (it's included with the Airmail program), and then reconnect the PTC-IIusb to any one of your computers USB port.

All other PTC-II modem model users: If you do not know which Com port is available to use, one tactic for finding out is the *trial-and-test* method. When in Airmail's *Message Index Screen*, click on TOOLS in the toolbar and select OPTIONS to open the *Airmail Options* SCREEN. Select the CONNECTION TAB and click on the *Comm Port* drop-down menu arrow. Select the lowest com port number shown, click APPLY OK. Start the Terminal screen. If you receive an error message go back to TOOLS/OPTIONS, and select the next sequentially higher listed com port number. Continue the process until you select a Com port number that works.

** The objective is to provide the best signal-to-noise-ratio of the audio from the modem into the radio by reducing the dig gain setting in the FT-100D and increasing the FSK/PSK drive settings in Airmail. When adjusting the FSK/PSK settings, be sure to keep the RF power output within the manufacturers design maximum of 50-watts output.