

ADDENDUM TO MODEL 800 MANUAL

Your Model 800 has been equipped with an Input Level pot installed in the cover. This feature has been incorporated for Morse reception and to provide RTTY reception in the "limiterless" mode.

To receive Morse Code, set your receiver to either UPPER or LOWER SIDEBAND not CW. Most CW filters have a different center frequency than the filters in the Model 800 and would not allow proper reception. Receivers that have "IF" shift capability may be able to use their CW filter. However, the Model 800 has a built-in 90 Hz filter, so a CW filter does little to improve performance. Enter the Morse receive mode by holding down the "CTRL" key while pressing the "2" key. Tune the receiver to a quiet, no signal, spot on the band and set the receiver audio gain to a comfortable level. Adjust the input level pot clockwise until the Model 800 just starts printing E's and T's and the sidetone starts "clicking". Now, decrease the input level pot (counter clockwise) until the Model 800 sidetone is quiet and the unit stops printing E's and T's. Once the input level has been set, the Model 800 will be ready to receive Morse Code. It may be necessary to reset the input level when changing bands or if you readjust your receiver audio or RF gain controls. Now, tune the receiver to a moderately strong CW station. A good station to practice tuning on is WIAW, as it is usually quite strong and has a good "fist". Tune the receiver such that the Model 800 starts repeating the incoming code through it's sidetone oscillator and the tuning bar is at maximum length on dots and dashes and minimum on spaces. It will be easiest if you tune down on the signal (e.g. as you tune across the CW station the pitch changes from high to low). Be sure to tune slowly as the Model 800 filters are quite narrow. Once properly tuned, the Model 800 will take a few characters to "lock on" to the incoming code before it starts copying properly.

The Input Level control also provides for linear operation of the Model 800 input amplifier, allowing the Model 800 to function as a limiterless or "AM" demodulator. This eliminates errors due to FM capture problems associated with limiting or "FM" type demodulators. The Model 800 tuning indicator bar

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provides a convenient indication of the input level to assure true limiterless operation. FM or limiting type reception, if desired, can still be attained by turning the input level control fully clockwise. It is suggested for limiterless reception of RTTY that the input level be set such that the tuning bar is at about 75% amplitude while copying a properly tuned signal. Limiterless operation will provide superior performance during selective fading or weak signal reception. FM or limiting type operation must be used in AUTOSTART or SELCOM modes. Proper tuning of the Model 800 is accomplished by tuning the signal for maximum amplitude of the tuning bar.

Note:

When Programming the "who are you" and SELCAL code, first hit the Return, then the 8 digit code ie (HORNBECK) then a Return

The keyboard should be in SELCOM for receiving

QUICK REFERENCE GUIDE

PROGRAMMING

KEYSTROKES

HERE IS messages	CTRL-H;	(message); RETURN *
ID memory	CTRL-I;	(call); RETURN
WRU memory	CTRL-W;	(code); RETURN
SELCAL memory	CTRL-S;	(code); RETURN
Printer mode	CTRL-P;	RETURN *

RTTY FUNCTIONS

KEYSTROKES

Select RTTY mode	CTRL-RTTY
TRANSMIT	CTRL-XMIT or ESC
RECEIVE	CTRL-RCV or ESC
Change SHIFT	CTRL-SHIFT
REVERSE Shift Polarity	CTRL-REVERSE
RY Test Message	CTRL-RY
QUICK BROWN FOX Test Message	CTRL-QBF
Change SPEED	CTRL-SPEED *
Disable Split Screen	CTRL-/ (fraction bar)
Enable Split Screen	CTRL-/ (fraction bar)
Disable STATUS Line	CTRL-STATUS
Enable STATUS Line	CTRL-STATUS
Lock CW Key	CTRL-TUNE
Unlock CW Key	CTRL-TUNE
Send ID	CTRL-ID
CONTINUOUS Transmit	CTRL-XMIT *
WORD Transmit	CTRL-XMIT *
LINE Transmit	CTRL-XMIT *
AUTOSTART	CTRL-RCV *
SELCOM	CTRL-RCV *
HERE IS message #(0-9)	HERE IS; (number 0-9)
Automatic CQ	CTRL-C
ASCII Operation	CTRL-SPEED *
Carriage RETURN, Line Feed	RETURN
Backspace and DELETE	DELETE
REPEAT a Letter or Function	REPEAT + desired key
BELL	CTRL-BELL
Send Baudot LTRS Character	CTRL-L
Send Baudot FIGS Character	CTRL-F
Send Baudot BLANK Character	CTRL-B

^{*} This feature is enabled by repeated depressions of the key indicated. The status line shows which mode has been selected.

MORSE CODE FUNCTIONS

KEYSTROKES

Select MORSE code mode	CTRL-MORSE
TRANSMIT	CTRL-XMIT or ESC
RECEIVE	CTRL-RCV or ESC
QUICK BROWN FOX Test Message	CTRL-QBF
Change transmit SPEED	CTRL-SPEED; (number); RETURN
Disable Split Screen	CTRL-/ (fraction bar)
Enable Split Screen	CTRL-/ (fraction bar)
Disable STATUS Line	CTRL-STATUS
Enabel STATUS Line	CTRL-STATUS
Lock CW Key	CTRL-TUNE
Unlock CW Key	CTRL-TUNE
Send ID	CTRL-ID
CONTINUOUS Transmit Mode	CTRL-XMIT *
WORD Transmit Mode	CTRL-XMIT *
LINE Transmit Mode	CTRL-XMIT *
RANDOM Transmit Mode	CTRL-XMIT *
Disable SIDETONE Oscillator	CTRL-T
Enable SIDETONE Oscillator	CTRL-T
HERE IS Message #(0-9)	HERE IS; number (0-9)
Automatic CQ	CTRL-C
REPEAT a Letter or Function	REPEAT + desired key
AR (end of message)	CTRL-A
AS (wait)	CTRL-W
BT (pause)	CTRL-B
KN (go ahead, station called)	CTRL-S

SSTV FUNCTIONS - MODE 1

KEYSTROKES

Select SSTV Mode 1 Change CHARACTER Color Change BACKGROUND Color TRANSFER Graphics to Scan Converter STORE Graphics in Memory #(1-8) RECALL Graphics in Memory #(1-8) Change Character SIZE CLEAR Display HOME Cursor to upper left Move Cursor LEFT Move Cursor UP Move Cursor RIGHT Move Cursor DOWN	CTRL-SSTV CTRL-C * CTRL-B * CTRL-T CTRL-S; (number 1-8) CTRL-R; (number 1-8) CTRL-CHAR CTRL-CLEAR CTRL-HOME CTRL-(left arrow) CTRL-(up arrow) CTRL-(right arrow) LINE FEED
	LINE FEED RETURN DELETE
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^{*} This feature is enabled by repeated depressions of the key indicated. The status line shows which mode has been selected.

SSTV FUNCTIONS - Mode 2

Select SSTV Mode 2
Transmit GREY SCALE Pattern
Return to SSTV Keyboard
Transmit CHECKERBOARD Pattern
Return to SSTV Keyboard
Change Number of LINES Transmitted
Black/White RFVERSAL
Change Character SIZE
CLEAR Display
HOME Cursor to upper left
Move Cursor LEFT

Move Cursor DOWN Carriage RETURN and line feed Backspace and DELETE

Move Cursor UP

Move Cursor RIGHT

KEYSTROKES

DELETE

CTRL-SSTV; CTRL-SSTV
CTRL-GRY SCL
CTRL-GRY SCL
CTRL-CHECKER
CTRL-CHECKER
CTRL-LINES; (number 1-6)
CTRL-REVERSE
CTRL-CHAR
CTRL-CLEAR
CTRL-CLEAR
CTRL-HOME
CTRL-(left arrow)
CTRL-(up arrow)
CTRL-(right arrow)
LINE FEED
RETURN