

Instruction Manual

FX-2

QRP FX-2 30/40 Meter CW Transceiver

Thank you for purchasing the FX-2 30/40 Meter CW Transceiver. This unit is designed as a small and lightweight transceiver perfect for portable use.

Specifications

Frequency:	7.000-7.300MHZ 10.000-10.300MHZ
Power:	9-13.8 Volts DC
Power Output:	13.8VDC 40 Meters ~ Approx. 4W 13.8VDC 30 Meters ~ Approx. 2.5W
Receiver Sensitivity:	0.7UV
Weight:	290g/10.22oz.
Dimensions:	4.75" x 2.375" x 1.5"



Appearance:

On the front of the unit, you will see the VFO (LCD) display along with 4 horizontal buttons below the VFO display



Button Location:

1. M/V (far left button): The "M" represents Memory and is used for memory storage. The "V" represents VFO and will return you to the VFO screen after memory setup.
2. ◀ Button: Used for memory storage and will cycle selections to the left.
3. ▶ Button: Used for memory storage and will cycle selections to the right.
4. CALL/IF Button: (Dual Function)

Important Instructions

The FX-2 unit is installed with VSWR protection but is not intended to protect your FX-2 if your antenna exceeds 3:1 SWR. Be sure to use an analyzer if at all possible.

Quick Setup

1. Hook your antenna to the BNC connector on the left side of the FX-2. We have been very pleased using RG-174 for a feed line up to 25 feet in length.
2. Install your favorite key (Straight or Paddle) into the key port. Paddle key requires 1/8" stereo plug. Straight key requires 1/8" mono plug.
3. Install your ear buds or headset into the phones port. The unit has very good volume so it is acceptable to use low cost phones.
4. Included with the unit is a power plug for the FX-2. You will note that the cable has a line marked on the cord indicating "+ Positive". **Make sure this is wired to your Power supply correctly or damage will occur to FX-2!**



Basic Operation:

- 1) Turn unit on by rotating the volume control knob away from you. You should see the Frequency display at this time.
- 2) Adjust volume control to best suit your needs.
- 3) Adjust frequency up and down by use of Tuning knob and the ◀ left/▶ right arrow buttons.
- 4) Before use of straight Key or Paddle, do the following: Hold down the Call/IF button for approximately 3 seconds and release. You should now see a screen as shown in fig 1. Move the cursor by using the right arrow key and place it under the Man/ or Auto. Then rotate the tuning knob to change from either Man or Auto.
- 5) Auto mode CW speed is accomplished by placing cursor beside CW on the display [1-40 wpm]. Adjustment made by turning TUNED knob. Straight Key has no speed adjust.
- 6) Exit this menu by a quick pressing of the Call/IF button. This will place you back to VFO setting.

FIG 1

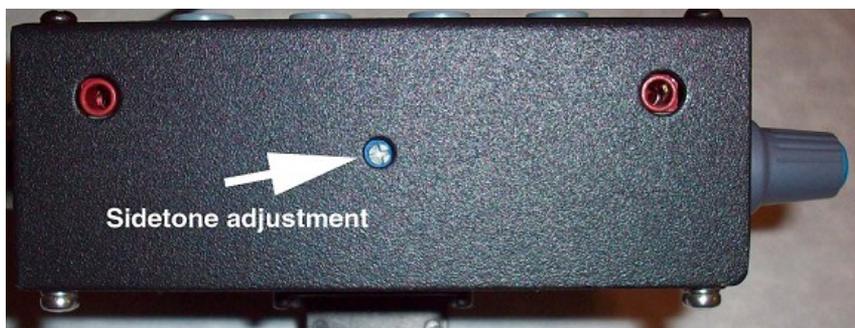


Button Functions/Setup:

- VFO Setting is done by rotating the TUNED knob on the right side of unit. You will notice that as the VFO knob is turned the frequency will change base on the cursor position on the display. Use the left/right arrow key to move cursor for faster frequency change.

- Volume control is controlled by the volume control knob.
Note: that there might be some sound distortion if volume control is turned to maximum, if this is the case reduce until distortion is reduced in most cases less than a quarter of a turn back.
- Independent side tone is controlled by a small pot located on the front side of the unit (see fig 2). Use a small Phillips or flat blade screw driver to adjust pot. Counter rotation increases volume /clock wise decrease. Side tone volume.

FIG 2



- While in VFO mode, press and hold CALL/IF button for approx. 3 seconds. This will place you back into LO/ CW/Auto or Man. Press and hold right arrow ► key for approx. 3 seconds and release. You should now see L/ IF/SWR/C/DT as illustrated in fig 3.

FIG 3



Button Functions/Setup (Continued):

- L designates light is either ON or OFF and can be turned on by placing cursor under ON. Make adjustment by turning TUNED knob.
- IF designates crystal filter 1-5. [350 — 1200KHz]
- SWR safety settings 0 — 5. [0 being no protection and 5 being 2:1 SWR]
- C designates caller ID and is programmable by rotating TUNED knob for your call sign. [Example: AE4LD]
- DT designates transmit delay time from 250 milliseconds to maximum of 500 milliseconds. Recommended setting: 250.
- LO designates frequency offset. Use this in reference to a known calibrated rig or instrument. Recommended setting: 0.000.000.
- Exit by pressing and releasing CALL/IF button.

Use of Memory Channels:

- Press and Release M/V. This will place you into the memory access area.
- The 20 Memory channels [0-19] are shown by pressing ◀ left/▶ right arrow buttons.
- Press and hold M/V for approx. 3 seconds. You should now see a cursor under the frequency.
- Adjust the value by rotating the TUNED knob.
- Use the ◀ left/▶ right arrow buttons to move cursor between values.
- Memory frequency is stored by pressing ◀ left arrow key one time.
- Press M/V button one time to return to the VFO setting.

RIT Adjust:

- From the VFO screen, press and hold ► right arrow button for approx. 3 seconds. RIT should now show in display.
- RIT can be adjusted by rotating the TUNED knob.
- IMPORTANT: to exit RIT, first press Call/IF to remove the cursor THEN press ► right arrow button.

RIT Display



Caller ID Access:

- Important: Antenna needs to be connected for proper caller ID functionality.
- From the VFO screen, press and release Call/IF.
- Screen will display POWER OUT and REFLECTIVE POWER.
- If your call sign is inserted, you will hear CQ and your callsign.



We hope you enjoy your new QRP
FX-2 30/40 Meter CW Transceiver.
For technical assistance, please
contact us via the information
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