

Quick-Tune Dongle Instructions

Description

The Quick-Tune Dongle is designed to aid ATU and Auto-ATU adjustment when using SSB by eliminating the multiple button presses your radio requires to generate a tuning carrier. It monitors your radios PTT line, and changes your radios operating mode to produce a tuning carrier when a PTT 'double press' is detected. The Dongle will only work with Yaesu FT-817, FT-857 and FT-897 transceivers.

Installation - FT-817

Set Menu No. 14, CAT RATE = 9600
Plug the Dongle into the ACC Jack Socket

Installation - FT-857 and FT-897

Set Menu No. 019, CAT RATE = 9600
Set Menu No. 020, CAT/LIN/TUN = CAT
Set Menu No. 085, TUNER/ATAS = OFF
Plug the Dongle into the CAT/LINEAR Jack Socket

Operation

Press the PTT twice - a quick press and release followed by a longer press that is held for the required tuning duration.
Your radio will change mode to PKT (or AM) and transmit a tuning carrier whilst the PTT is held.
You can tune your ATU, auto-ATU or measure your VSWR etc. whilst the PTT is held.
Your radio will return to its original mode when the PTT is released.

Setting the Tuning Carrier Power

Remove the Dongle.
Set your radios mode to PKT for a full power tuning carrier or AM for a ¼ power tuning carrier.
Press and hold the PTT to transmit a carrier.
Plug the Dongle back into your radio whilst transmitting and the Dongle will store your radios current mode. Note: if you store a sideband mode the Dongle will not generate a tuning carrier.

Option 1. The Dongle will operate on all modes if the last two digits of the radio frequency are 00 when 'Setting the Tuning Carrier Power'. When using this option you will need to set CW break-in (BK) and voice operated transmit (VOX) delays greater than 200ms to prevent unintended Dongle operation. This is fine for VOX and slow CW operation, but too long for fast break-in CW.

Option 2. The Dongle will only operate on SSB modes if the last two digits of the radio frequency are between 01 and 99 when 'Setting the Tuning Carrier Power'. This option allows the CW break-in (BK) delay to be set for fast break-in CW operation, but you will still need to set a voice operated transmit (VOX) delay greater than 200ms (which is normal) to prevent unintended Dongle operation.

Note. If the Dongle is set to use AM (¼ power), you can set the AM MIC gain to zero in your radios setup menu to eliminate any audio on the tuning carrier. This will not affect the MIC gain of your radios other modes.

Problem Solving

Dongles are fully tested before despatch and have proven to be highly reliable, so it is unlikely that yours will have developed a fault. Most problems can be traced to;

- a) the Dongle not being fully inserted or becoming dislodged
- b) the radio not being correctly set or the settings having been changed accidentally
- c) the PTT's second press not being held for the required tuning duration
- d) the Dongle being accidentally set to use a mode that does not generate a carrier

If you are experiencing a problem please check and re-check all settings against those given in these instructions.