

FTDX101MP and 60 meters transmit

*60 meter *transmit* is only available via imbedded 60 meter memory channels in the firmware, NOT the 5.0 band button nor user created memories on 60 meters.

The use of Firmware 60 Meter channels for transmit are accessed by:

- With radio ON, press the far **right V>M** button to access the channel memory selections. Using the MULTI knob, scroll **to the end** of the long list.
- The end of the list has 10 channels for 60 Meters USB and CW transmit.
- Select the channel you wish to operate on (traditionally 5.358.500 USB for 60 meters digital is used), and press the MULTI knob to select/load the channel into the VFO. This channel will become the default on subsequent V/M use.
- Exit memories with quick press on the far **right V>M** button. This ends setup.
- Once setup is done, transmit ability on 60 meters is always available by pressing the far **left V/M** button and 5.358.500 comes up on the display with 5-3 channel above the orange **USB** icon. This indicates channel 5-3 USB is being used.
- You need to enable WSJT to allow 60 meters and avoid the out of band **OOB** error. Go to WSJT/Settings/Frequencies; right click in Working Frequencies panel. Select *Insert* and type in 5.358500. Press OK button.
- To start 60 meters, **press far left V/M button. To quit channel use, press the far left V/M button again. Do not go to 60 meters or leave via WSJT software.**¹
- In WSJT-X software program (**be sure you have a current version**), the WSJT-X/Settings/Radio Tab has to have Split Operation with None selected, **otherwise the radio will display TX but have no audio out** and it will have moved to VFO mode instead of memory. *If this happens you have to manually force the radio to another band then come back via the far left V/M button.*²

1. Software can not start the radio in 60 meter firmware memories and if you use software to leave 60 meter firmware channels, a Sub VFO is turned on and changes its frequency. You will have to clear the VFO by going to another band via using the upper band band buttons and then go to 60 meters by calling firmware mode with the V/M button.

2. When using 60 meters the WSJT program will not key the transmitter with audio out *until* this is set to **None**. **Fake it works in 6 thru 160 meters but not 60 meters**. The firmware 60 meter channels apparently do not accept 'Fake It' as viable for transmit and instead forces the radio into VFO mode (not 5-3 USB) and the radio will have to be taken to another band and then use left V/M button to enter 60 meters.

3. Be sure PRESET with USB highlighted is using **Rear Select USB** or radio will key but no audio to ALC. Here is where that setting is found and changed if necessary. Enter PRESETs by holding down the MODE button above SSB. You then hold down the blue PRESET button until its menu comes up. Turn on **Rear Select to USB**.

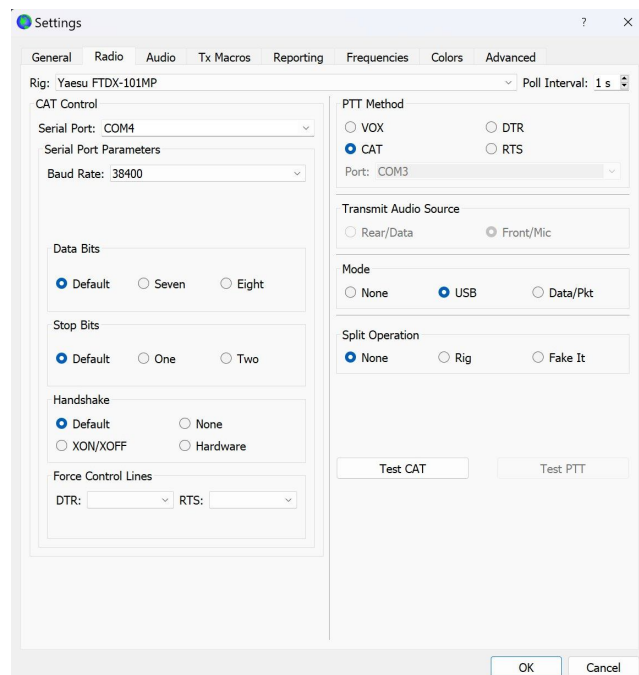
Setting up the audio for transmit.

Set the menu via Func button below screen. Operation Setting/TX Audio/PROC LEVEL = COMP (turning it blue).



The manual is vague on AMC, ALC and Proc interactions.

Use the value of 55 for the AMC setting. It is the inner knob on the upper right labeled PROC/PITCH. Watching your radio screen, make sure it is set to value 55 !



Note: Make sure you have the radio's menus for FT8 and USB cord per:

<https://www.qsl.net/kl7j/FTDX101MP%20USB%20FT8.html>

Some trouble shooting checks when No audio to ALC

Check your radio for using USB Rear.



Be sure PRESET USB is using **Rear Select USB** or radio will key but no audio to ALC. Here is where that setting is found and changed if necessary. Enter PRESETs by holding down the MODE button above SSB. You should be using PreSet on for FT8. Hold down the blue PRESET button until its menu comes up. Turn on **Rear Select to USB**. No audio out is often because of this setting going to Data.

Your transmit only last one period then stops, check that your SUB VFO button did not get turned on.

If you can transmit a Tune but not get the enable button to light, put a call in Tx1 panel by double clicking a callsign in your receive panel. Often when changing modes from FT8 to SuperFox or

Fox/Hound that slot clears to blank. Also if the DX frequency is not in WSJT frequencies, the radio will return to regular FT8 frequency so you will have to dial it back in.

Not deflecting the ALC, check the WSJT Pwr slider side panel, and turn it up so it will deflect the ALC.

Not enough audio to drive the ALC adequately even when WSJT slider is full Pwr, go the Windows Sound setting and turn up the driver sound output level that goes to WSJT use.

Your radio AMC should be set to 50 or 55 (Default). Set wrong and too aggressive it will not allow enough ALC deflection.

Flashing Button on WSJT panel. Enabled TX flashing and not transmitting on 60 meters. The VFO on 60 has moved off memory channel to regular VFO. Leave to another band and come back to 60 meters using the V/M button.

KL7J 12//2024 v2.1