

Quick reference for the Leamington UARC HF remote

Operational notes:

- **How to tune to new frequency/band** (*160 meters is not available for TX*):
 - Set approx. frequency of operation, avoiding ongoing QSO
 - Set **Mic Gain** to 0
 - Verify that **RF Power** is 10 or higher
 - Set **MODE** to **AM**
 - Push **TX** button to send carrier (button turns yellow) and wait 15 seconds (*e.g. 15 "Mississippis"*) for the tuner to (*try to*) find a match.
 - Push **TX** button again to turn off carrier (button turns gray)
 - Set **MODE** back to LSB/USB as appropriate
 - Set **Mic Gain** to 41
 - *Note: If camera access is available, SWR may be read from tuner display.*
- **Select VFO A/B**: Turn large knob – VFO A is selected, turn small knob – VFO B is selected.
- **Adjust frequency step size**: Lower-right corner drop-down menu: Upper is for VFO A, lower is for VFO B
- **Enable speech processor**: Press **COMP** button for more "punch"
- **Remove CW note from someone tuning up or carrier from broadcast stations**: Press **ANF** (auto notch filter) button
- **Reduce background noise/buzz**: Press **NR** (noise reduction) to activate DSP noise filter, adjust **NR Level** slider to set "strength" (*typically 15*).
- **Directly enter frequency**: Use **Number Pad** in upper-left corner – push number buttons or enter with keyboard. Button below selects which VFO (*or both*) as destination for frequency.
- There are sliders for NB level, Notch and Comp level, but these aren't supported by this radio and do nothing.
- If the S-meter is above S1 and is moving around, you probably **do not** need to enable the Pre-Amplifier as this will only boost background noise and not the desired signal.
- If, while you are talking, portions of the moving waveform display at the top of the program changes from black to red, reduce the **MIC** setting where this doesn't (or rarely) happens on voice peaks.
- Neither **RIT** or **SPLIT** tuning is available at this time.

CW operation:

- Select **CW** mode, click on the **CW** tab at the extreme bottom-left of the program window and type the text you wish to send where it says "Type a message".
- Use the **CW Speed** and **BK-In Delay** sliders for sending speed and transmit-receive break-in delay.
- Local use of paddle instead of text input is possible – *see the **Options**→**Control Devices Setup**→**External CW** tab in RCForb.*
- *There are no narrow-bandwidth CW filters available.*

Initial settings for SSB:

- **Mode**: For voice, USB for 20 meters and higher, LSB for 40 meters and lower (*Exception: USB is used on 60 meters*)
- **Pre Amp**: **Off**
- **Power**: 100% (*Approx. 100 watts*)
- **RF Gain**: 100%
- **Mic Gain**: 41%
- **SQL** (squelch): 0
- **NR** button (DSP Noise reduction): Not selected (not yellow)
- **NR Level** (DSP noise reduction "strength"): Normally 0-15
- **ANF** button (DSP automatic Notch Filter): Not selected (not yellow)
- **Comp** (transmit speech compressor): Selected (yellow)

SSB Transmit Troubleshooting

- **Not transmitting?** (*No power, cannot be heard*)
 - Check **Mode** (LSB/USB according to freq. *Must not be in CW*)
 - **RF Power** slider should be higher than zero. (*100%=100 watts*)
 - Check **Mic Gain** on radio slider: Set to approx. 41%
 - Check "**Mic**" at top of program window – increase gain if oscilloscope line is flat/check your computer's mic gain/connection.
 - Check **MIC** setting in RCForb program (top, far left with drop-down selection) to verify correct audio source.
 - Did you transmit for more than **180 seconds/3 minutes** at once and trigger transmit time-out? Switch back to receive and then try not to be so long-winded next time!
 - If you are using RCForb Ver 0.9, MIC audio may not work on some computers – try Ver. 0.8, instead.
 - Use RCForb Mic test: **Options**→**Audio Device Settings**
 - Is microphone/input configuration on your computer correct?
 - Band may be dead: Listen to yourself on a WebSDR (<http://websdr.org>)

Receive Troubleshooting:

- Nothing heard on receive – not even noise?
 - Check computer speaker volume: Play music or YouTube to verify that you can hear audio from **your** computer.
 - Check **SPKR** setting in program (top, far left with drop-down selection) to verify correct audio output.
 - Check **Vol** setting on program. Test **Options**→**Audio Device Settings**
 - Check **RF Gain** on radio: **Slider should be at 100%**
 - Check **SQL** on radio: **Slider should be at 0**
 - Make sure you aren't in TX mode (**TX** button is yellow)
 - If you *are* hearing some background noise, but no signals, you may be on a band that is not active.
 - There will be few signals on 160/80 meters in the daytime.
 - Low sunspot activity? 17, 15, 12 and 10 meters may open rarely.