

REPEATER PROGRAMMING QUICK REFERENCE

For Baofeng UV-5R, Yaesu FT-65R, and all dual-band HTs · hamradiolicense.pages.dev

STEP 1 — FIND YOUR REPEATER DATA

Go to **repeaterbook.com**, enter your zip code, filter for 2-meter or 70cm repeaters.

Note these three pieces of information for each repeater you want to program:

What You Need	Where to Find It	Example
Output frequency (MHz)	RepeaterBook listing	147.195
Offset direction (+ or -)	RepeaterBook "Offset" column	+0.600 (2m standard)
CTCSS tone (Hz)	RepeaterBook "Tone" column	100.0 Hz

STEP 2 — STANDARD OFFSETS BY BAND

Band	Output Freq Range	Standard Offset	Typical Direction
2 meters	144.000–148.000 MHz	600 kHz (0.600)	+ above 147.000 MHz; – below
1.25 meters	222.000–225.000 MHz	1.6 MHz	– (transmit lower than output)
70 centimeters	420.000–450.000 MHz	5.000 MHz	+ (transmit higher than output)

STEP 3 — CHIRP FIELDS (what to enter for each column)

CHIRP Column	What to Enter	Notes
Loc	Channel number (1–999)	Any unused number
Name	Short label	Max 6 chars on UV-5R display
Frequency	Repeater OUTPUT frequency	This is what you listen on
Duplex	+ or – or None	Direction of offset from output freq
Offset	0.600 for 2m / 5.000 for 70cm	In MHz
Tone Mode	Tone	Sends CTCSS to open repeater
CTCSS	Tone freq from RepeaterBook	e.g. 100.0, 88.5, 127.3
Mode	FM	NFM for narrow-band if required

STEP 4 — MAKING YOUR FIRST CONTACT

Action	What to Do
1. Listen first	Monitor the repeater for 2–3 minutes — confirm it is clear and active.
2. Key up and announce	Hold PTT, wait 1 second, then say: "This is [call sign phonetically], new ham, monitoring."
3. Wait for response	Release PTT, wait 15–20 seconds. Try again at commute hours if no response.
4. Have a conversation	Your location, your radio, how long you've been licensed. Keep it natural.
5. Sign off	"Thanks for the contact. 73. This is [call sign], clear."
6. Identify every 10 min	FCC Part 97.119 requires call sign ID every 10 minutes and at end of contact.

