

Baltimore Amateur Radio Club BARC Repeater setup guide

PDF turn on narration and or sight assisted devices for assistance if needed.

Here is a summary of the document:

- **Repeater Guide:** The document provides a guide for programming a typical WF3T repeater, including troubleshooting tips like "If in doubt Swap it out" and a reminder that even test tools can be fooled.
- **Frequency Details:** It lists the necessary frequencies for the W3FT Repeater, such as an **input frequency** of **146.07 MHz**, an **output frequency** of **146.67 MHz**, and a **PL tone** of **107.2**.
- **Programming Instructions:** Specific instructions are given for the Baofeng GT5R radio model, including setting the bandwidth to wide and turning off various features like DCS, CTCSS, ANI, and squelch tail eliminate.
- **Manual References:** It references the user manual v1.0, directing to chapters 13 and 14 for further details on repeater programming and amateur radio setup.

Readme... readme Readme.....

Cables and connections can appear to be functioning or intermittent.

If in doubt Swap it out. Even a test tool can be fooled.

You will need a programming cable.

Assume chirp and cable drivers are loaded.

Basics:

Need:

Repeater Output Frequency.

Offset frequency.

Offset direction – negative or + positive.

CTCSS tone information.

W3FT Repeater information.

INPUT FREQUENCY 146.07 megahertz.

OUTPUT FREQUENCY 146.67 megahertz.

OFFSET sft-d shift direction – negative .

OFFSET FREQUENCY 600 kilohertz.

PL Tone 107.2 .

Specific radio models.

Baofeng GT5R:

User manual v1.0.

Chapter 13 Page 23.

Repeaters:

Baofeng GT5R:

User manual v1.0.

Chapter 14 Page 26.

Amateur Radio Setup.

Menu Item 5.

Set bandwidth to wide .

Menu Items 10 to 13.

Turn off dcs.

Turn off ctcss.

Menu Items 15 to 17 19 to 20.

Turn ani off.

Turn dmtfst off.

Turn S-code off.

Turn ptt-id off.

Turn PTT-lt 0 (zero) milliseconds.

Menu Items 35-37.

Turn off STE Squelch tail eliminate.

Turn off RP-STE Repeater squelch tail eliminate.

Turn off RPT-RL Delay tail tone.

Menu Item 39.

Turn roger beep off.

Appendix.

Repeaters lookup.

<https://www.repeaterbook.com/index.php/en-us/>

https://www.levinecentral.com/repeaters/google_mapping.php

T-MARC The Mid-Atlantic Repeater Council

<http://www.tmarc.org/>

Chirp and RT Systems examples.

| Frequency | Name | Tone Mode | Tone | Tone Squelch | DTCS | RX DTCS | DTCS Polarity | Cross Mode | Duplex | Offset | Mode | Skip | Power | BCL | PTT ID | PTT ID Code | Comment |
|------------|------|-----------|-------|--------------|------|---------|---------------|------------|--------|----------|------|------|-------|----------|--------|-------------|---------|
| 146.670000 | W3FT | Tone | 107.2 | | | | | | - | 0.600000 | FM | | High | Disabled | Off | 1 | |

1example graphic of chirp screen.

| Receive Frequency | Transmit Frequency | Offset Frequency | Offset Direction | Operating Mode | Name | Tone Mode | CTCSS | Rx CTCSS | DCS | Rx DCS | DCS Polarity | Tx Power | Skip | Busy Channel Lockout | Comment |
|-------------------|--------------------|------------------|------------------|----------------|------|-----------|----------|----------|-----|--------|--------------|----------|--------------------------|----------------------|---------|
| 146.67000 | 146.07000 | 600 kHz | Minus | FM | W3FT | Tone | 107.2 Hz | 88.5 Hz | 023 | 023 | Both N | High | <input type="checkbox"/> | Off | FM |

2example graphic of rt systems tool.

