

TYT TH-9800 Pro

TYT TH-9800 Pro Quad Band Transceiver User Manual

Model: TH-9800 Pro

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your TYT TH-9800 Pro Quad Band Transceiver. Please read this manual thoroughly before using the device to ensure safe and optimal performance. Keep this manual for future reference.

2. SAFETY INFORMATION

- Do not operate the transceiver in explosive atmospheres or near flammable materials.
- Ensure proper ventilation to prevent overheating.
- Use only the specified power supply (13.8V DC).
- Do not expose the device to extreme temperatures, direct sunlight, or moisture.
- Avoid transmitting without an antenna connected.
- Keep the device out of reach of children.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:



Mobile Transceiver



Hand Microphone



Power Cable



Product Manual



Fixed Bracket



Screw



Microphone Hanger



Protective Tube



Separation Cable kit

Image: Overview of the TYT TH-9800 Pro package contents, including the mobile transceiver, hand microphone, power cable, product manual, fixed bracket, screws, microphone hanger, protective tubes, and separation cable kit.

- Mobile Transceiver Unit
- Hand Microphone
- DC Power Cable
- Mounting Bracket
- Mounting Screws
- Microphone Hanger
- Protective Tubes (Fuses)
- User Manual (this document)
- Separation Cable Kit (if included with your model)

4. PRODUCT OVERVIEW

4.1 Front Panel and Display



Image: Front view of the TYT TH-9800 Pro transceiver, showing the dual-band display, control knobs, and function buttons.

The front panel features a large, illuminated LCD display showing dual frequency bands (left and right), signal strength, and various status indicators. Control knobs for volume, squelch, and channel selection are located on both sides of the display. Function buttons provide quick access to common operations.



Image: Close-up of the TYT TH-9800 Pro display, highlighting frequency readouts, status icons, and the right-side control knobs (D, E, F) and power button.

4.2 Rear Panel Connections



Image: Rear view of the TYT TH-9800 Pro transceiver, showing the antenna connector, 13.8V DC power input, DATA port, and EXT SP (external speaker) port.

The rear panel includes the antenna connector (SO-239 type), DC power input (13.8V), an external speaker jack (EXT SP), and a data port for programming.

4.3 Hand Microphone



Image: The TYT TH-9800 Pro hand microphone, featuring a numeric keypad, function buttons (P1, P2, P3, P4), and a push-to-talk (PTT) button.

The supplied hand microphone includes a numeric keypad for direct frequency entry, function buttons for various operations, and a PTT (Push-To-Talk) button for transmitting.

5. SETUP AND INSTALLATION

5.1 Mounting the Transceiver

Use the provided mounting bracket and screws to secure the transceiver in a stable location within your vehicle. Ensure the location allows for adequate ventilation and easy access to controls. The bracket can be adjusted for optimal viewing angle.

5.2 Power Connection

1. Connect the red wire of the DC power cable to the positive (+) terminal of your vehicle's 13.8V DC power source.
2. Connect the black wire to the negative (-) terminal or chassis ground.

3. Ensure the connection is secure and properly fused.
4. Plug the power cable connector into the 13.8VDC input on the rear of the transceiver.

5.3 Antenna Connection

Connect a suitable quad-band or dual-band antenna (UHF/VHF) to the SO-239 antenna connector on the rear panel of the transceiver. Ensure the antenna cable has a PL-259 connector and is properly tightened. An improperly matched antenna can damage the transceiver.

5.4 Microphone Connection

Plug the hand microphone connector into the microphone jack located on the front panel of the transceiver.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

Press and hold the **POWER** button (usually on the right side of the front panel) to turn the transceiver on or off.

6.2 Volume Adjustment

Rotate the **VOL** knob (typically on the left side) clockwise to increase volume and counter-clockwise to decrease it.

6.3 Frequency Selection (VFO Mode)

1. Press the **V/M** button to switch to VFO (Variable Frequency Oscillator) mode.
2. Rotate the **DIAL** knob (large knob on the right) to change the operating frequency.
3. Use the **STEP** button (if available) to adjust the tuning step size.

6.4 Channel Selection (Memory Mode)

1. Press the **V/M** button to switch to Memory mode.
2. Rotate the **DIAL** knob to select a stored memory channel.

6.5 Transmit and Receive

- To **receive**, ensure the squelch is properly set (see 6.6). The display will show incoming signals.
- To **transmit**, press and hold the **PTT** button on the hand microphone. Speak clearly into the microphone. Release the PTT button to return to receive mode.

6.6 Squelch Adjustment

Rotate the **SQL** knob (typically on the right side) to adjust the squelch level. Adjust it just past the point where background noise disappears. This prevents constant static when no signal is present.

6.7 Dual Band Operation

The TH-9800 Pro operates on two bands simultaneously. The left and right sides of the display show the frequencies for each band. Use the **BAND** button or similar function to switch the active band for tuning or transmitting.

6.8 Repeater Operation (Offset and Tone)

To use a repeater, you need to set the correct offset and CTCSS/DCS tone.

- **Offset:** Press the **SHIFT** or **RPT** button to select the repeater shift direction (+ or -) and magnitude.
- **CTCSS/DCS Tone:** Press the **TONE** button to activate CTCSS (Continuous Tone-Coded Squelch System) or DCS (Digital Coded Squelch) and select the appropriate tone frequency or code.

7. ADVANCED FEATURES

7.1 Scanning

Press the **SCN** button to initiate scanning. The transceiver will scan through frequencies or memory channels. Press **SCN** again to stop scanning.

7.2 Memory Programming

To store a frequency into memory:

1. Tune to the desired frequency in VFO mode.
2. Set any desired offset, tone, or other parameters.
3. Press the **FUNC** button (if applicable), then the **MEM** or **STORE** button.
4. Select an empty memory channel using the **DIAL** knob.
5. Press **MEM** or **STORE** again to confirm.

7.3 DTMF Functions

The hand microphone includes a DTMF (Dual-Tone Multi-Frequency) keypad. These tones can be used for various functions such as controlling repeaters, accessing phone patches, or remote control applications. Consult your local repeater guidelines for specific DTMF sequences.

8. MAINTENANCE

8.1 Cleaning

Wipe the transceiver's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure no moisture enters the unit.

8.2 Fuse Replacement

If the transceiver does not power on, check the inline fuse on the DC power cable. Replace it with a fuse of the same rating (typically 15A or 20A, as indicated on the fuse holder or in the specifications).

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Loose power connection, blown fuse, incorrect voltage.	Check power cable, replace fuse, verify 13.8V DC supply.
No reception	Squelch too high, antenna disconnected, incorrect frequency/mode.	Adjust squelch, check antenna connection, verify frequency and operating mode.

Problem	Possible Cause	Solution
Cannot transmit	Microphone not connected, PTT button faulty, antenna issue.	Check microphone connection, test PTT, inspect antenna and cable.
Poor audio quality	Low signal strength, interference, incorrect audio settings.	Improve antenna placement, check for interference sources, adjust volume/squelch.

10. SPECIFICATIONS

Feature	Specification
Brand	TYT
Model	TH-9800 Pro
Tuner Technology	UHF, VHF
Dimensions (Package)	29.2 x 20 x 11.4 cm
Weight (Product)	2.12 kg
Power Source	13.8V DC (external, not included)
Batteries Included	No
Batteries Required	No

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your authorized TYT dealer. Keep your proof of purchase for warranty claims.

Online resources and firmware updates may be available on the official TYT website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question