

Motorola Solutions T605_H2O

Motorola Talkabout T605_H2O Two-Way Radios Instruction Manual

Brand: Motorola Solutions

Model: T605_H2O

1. PRODUCT OVERVIEW

The Motorola Talkabout T605_H2O is a robust and fully waterproof two-way radio designed for reliable communication in various outdoor environments. Featuring emergency capabilities and an extended range, these radios are ideal for adventurers and emergency preparedness. They come equipped with a water-activated flashlight and boast floating capabilities for easy retrieval.



Figure 1: Motorola Talkabout T605_H2O Two-Way Radios with carrying case.

2. SETUP

2.1. Battery Installation

The T605_H2O radios come with rechargeable NiMH battery packs. They also support the use of 3 AA alkaline batteries for alternative power. To install the battery pack:

1. Ensure the radio is powered off.
2. Locate the battery compartment cover on the back of the radio.
3. Use a coin or a flat-head screwdriver to unscrew the two screws securing the cover.
4. Carefully remove the battery compartment cover.
5. Insert the NiMH battery pack, ensuring the contacts align correctly.
6. Replace the battery compartment cover and tighten the screws to ensure a waterproof seal.

2.2. Charging the Radios

The radios can be charged using the included USB-C charging cables. It is recommended to fully charge the batteries before first use.

- Connect one end of the USB-C charging cable to the USB-C port on the side of the radio.
- Connect the other end of the cable to a compatible USB power adapter (e.g., wall charger, car charger, or computer USB port).
- The battery indicator on the radio's display will show charging status.
- A full charge typically takes several hours.



Figure 2: USB-C charging port on the radio.



Figure 3: Radios and included accessories, including charging cables and batteries.

3. OPERATING INSTRUCTIONS

3.1. Power On/Off

To power on or off the radio, press and hold the **Mode/Menu** button for a few seconds until the display turns on or off.

3.2. Channel Selection and Privacy Codes

The T605_H2O features 22 channels and 121 privacy codes, offering 2,662 combinations for clear communication. To change channels or privacy codes:

1. Press the **Mode/Menu** button once to enter channel selection mode.
2. Use the **+** or **-** buttons to select your desired channel.
3. Press the **Mode/Menu** button again to enter privacy code selection mode.
4. Use the **+** or **-** buttons to select your desired privacy code.
5. Press the **Mode/Menu** button to confirm your selection and exit the menu.

3.3. Communication Range

The effective communication range varies depending on terrain and conditions:

- **Mountain to Valley:** Up to 35 miles

- **Open Water:** Up to 6 miles
- **Neighborhood:** Up to 2 miles



***The range in real-life conditions can be reduced from maximum range.**

Figure 4: Communication range in various environments.

3.4. Flashlight Function

The T605_H2O includes an integrated flashlight with both white and red LEDs. It also features a unique water-activated flashlight that turns on upon impact with water, aiding in retrieval.

- To activate the flashlight manually, press the dedicated flashlight button (usually located on the top or side of the radio).
- Cycle through white, red, and off modes by pressing the button repeatedly.



Figure 5: Integrated flashlight.

4. MAINTENANCE

4.1. Waterproofing and Durability

The T605_H2O radios are IP67 waterproof, meaning they can withstand submersion in up to 1 meter of water for 30 minutes. This robust design ensures durability in challenging outdoor conditions.



Figure 6: IP67 Waterproof feature.

4.2. Cleaning and Storage

To maintain your radios, wipe them with a damp cloth as needed. Ensure the battery compartment is securely sealed when exposed to water or moisture. Store the radios in a cool, dry place when not in use, preferably in their original carrying case.

5. TROUBLESHOOTING

5.1. Radio Does Not Turn On

- Ensure the battery pack is correctly installed and fully charged.
- Try replacing the rechargeable battery pack with fresh AA alkaline batteries to rule out a faulty battery pack.
- Press and hold the power button for at least 3 seconds.

5.2. No Sound or Low Volume

- Check the volume level using the **+** button.
- Ensure both radios are on the same channel and privacy code.
- If in a high-pressure environment (e.g., after significant altitude changes), try unplugging and re-plugging the charging port to equalize internal pressure, which can affect speaker volume.
- Ensure no foreign objects are blocking the speaker grille.

5.3. Limited Range or Static

- Ensure you are within the specified range for your environment (e.g., up to 2 miles in a neighborhood, up to 35 miles in mountain-to-valley conditions).
- Obstructions like buildings, dense foliage, or large metal structures can significantly reduce range. Try moving to an open area.
- Ensure batteries are fully charged, as low power can affect transmission strength.
- Interference from other electronic devices can cause static. Try changing channels or privacy codes.

6. SPECIFICATIONS

Product Dimensions	2.4 x 1.5 x 7.8 inches
Item Weight	7.8 ounces
Item Model Number	T605_H2O
Batteries	2 12V batteries required (included)
Special Features	Long Range, Rechargeable, Integrated Flashlight, Weather Resistant, Automatic Squelch
Color	Orange/Black
What's in the Box	2x Radios, 2x USB-C Charging Cables, 2x Rechargeable Batteries
Manufacturer	Motorola Solutions
Country of Origin	Philippines
Number of Channels	22
Frequency Range	400-470 MHz
Talking Range Maximum	35 Mile
Water Resistance Level	Waterproof (IP67)

7. WARRANTY AND SUPPORT

Motorola Solutions products are designed for reliability and durability. For information regarding product warranty, please refer to the warranty card included with your purchase or visit the official Motorola Solutions website. For technical support, troubleshooting assistance, or service inquiries, please contact Motorola Solutions customer service.

Optional protection plans are available for purchase to extend coverage beyond the standard manufacturer's warranty. Please check with your retailer for details on available protection plans.

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