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JAXWQ TH410

JAXWQ TH410 Stud Finder Instruction Manual

Model: TH410

1. Product Overview

The JAXWQ TH410 Stud Finder is a versatile 5-in-1 wall scanner designed to accurately detect studs, metal objects, and live AC wires behind various surfaces. This tool is essential for safe and efficient home improvement projects, helping to prevent damage to hidden utilities and ensuring secure mounting.

Image 1: The JAXWQ TH410 Stud Finder, a compact and ergonomic device with an LCD screen and control buttons.

Image 2: Banner illustrating the JAXWQ 5-in-1 Stud Finder's capabilities, highlighting its use in home improvement projects.

Key Features:

- **5-in-1 Detection Modes:** Includes Stud Scan, Deep Scan, Metal Scan, and AC Scan.
- **Accurate Sensing:** Utilizes upgraded smart sensors for precise location of objects.
- **Live AC Wire Warning:** Automatically detects live AC wires in all modes for enhanced safety.
- **Clear LCD Display:** Provides visual indications of detected objects, signal strength, and center location.

2. Setup and Calibration

2.1 Battery Installation

The JAXWQ TH410 Stud Finder requires a 9V battery (included). To install:

1. Locate the battery compartment cover on the back of the device.
2. Slide the cover open.
3. Insert a new 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

2.2 Initial Calibration

Proper calibration is crucial for accurate readings. Always calibrate the device before each use and when switching modes.

Image 3: Hand holding the stud finder in the air, indicating the correct position for calibration.

Calibration Steps:

1. Hold the tool in the air, away from any walls or metal objects.
2. Press the **ON/OFF** button to power on the device.
3. Select the desired scan mode (e.g., Stud, Metal, AC) using the mode selection button.
4. Press and hold the **Scan** button (usually located on the side or front).
5. Wait for the decreasing bars on the screen to disappear and for a single beep sound. This indicates successful calibration.
6. Release the **Scan** button. The device is now ready for use in the selected mode.

3. Operating Instructions

After calibration, place the device flat against the wall and slowly slide it across the surface. The LCD screen will display indications as objects are detected.

3.1 Stud Scan Mode

Used for locating wood studs and joists behind drywall up to 1.5 inches (38mm) deep.

Image 4: The stud finder's display showing a stud detection, with bars indicating proximity and an arrow pointing to the center.

1. Select **Stud Scan** mode.
2. Calibrate the device as described in Section 2.2.
3. Place the device flat against the wall and slowly slide it horizontally.

4. As the device approaches a stud, the signal strength bars on the LCD will increase.
5. When the device is directly over the center of the stud, the 'CENTER' indicator will appear, and an audible beep will sound. Mark this location.
6. Continue scanning past the stud to confirm its edges.

3.2 Metal Scan Mode

Used for detecting metal pipes, rebar, and other metallic objects up to 2.36 inches (60mm) deep.

Image 5: The stud finder's display showing a metal detection, with bars indicating proximity and a metal icon.

1. Select **Metal Scan** mode.
2. Calibrate the device as described in Section 2.2.
3. Place the device flat against the wall and slowly slide it horizontally.
4. The signal strength bars will increase as metal is detected.
5. The 'CENTER' indicator and an audible beep will signal the center of the metal object.

3.3 AC Scan Mode

Used for detecting live unshielded AC wires up to 2 inches (51mm) deep. The device also indicates live AC wires in other modes for safety.

Image 6: The stud finder's display showing an AC wire detection, with bars indicating proximity and an AC warning icon.

Detailed AC Scan Steps:

1. Select **AC Scan** mode.

2. Calibrate the device in the air.
3. Place the device against the wall and slowly slide it across the surface.
4. Mark the location where you get the highest AC indication (most middle bars on the screen). If it is a strong target, the top indicated arrow will show, and a steady beep will sound.
5. Continue in the same direction until display bars reduce. Reverse direction and mark the spot where the display bars peak from the reversed direction. The midpoint of the two marks is the location of the center of the live AC wiring.
6. If the unit indicates live electricity over a large area, you can reduce the sensitivity to refine the scanning area:
    a. Release the Scan button and then turn the unit back on, starting on the wall over one of the previous marks. This resets the tool to lower sensitivity.
    b. Scan in both directions again. The indicated area should become smaller, allowing for more precise identification of live AC wires.

Image 7: Visual guide demonstrating the process of using the AC scan mode to detect live electrical wires within a wall.

Image 8: Figure A, illustrating initial AC wire detection with strong signal bars.

Image 9: Figure B, showing the process of re-scanning to reduce sensitivity for more precise AC wire location.

Image 10: Figure C, demonstrating the refined scan area after sensitivity adjustment for accurate AC wire identification.

4. Maintenance

To ensure the longevity and optimal performance of your JAXWQ TH410 Stud Finder, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the stud finder in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery:** Remove the battery if the device will not be used for an extended period to prevent leakage.
- **Avoid Impact:** Protect the device from drops or strong impacts, which can damage internal components.

5. Troubleshooting

If you encounter issues with your JAXWQ TH410 Stud Finder, refer to the following common troubleshooting steps:

- **Inconsistent Readings:**
  - Ensure proper calibration before each scan. Calibrate in the air, away from any objects.
  - Move the device slowly and steadily across the surface. Rapid movement can affect accuracy.
  - Check for moisture on the wall or device, as this can interfere with readings.
  - On textured walls, place a piece of cardboard between the device and the wall to ensure smooth gliding.
- **No Detection / Weak Signal:**
  - Verify the battery is fresh and correctly installed. Low battery power can affect performance.
  - Ensure the correct scan mode is selected for the target object (e.g., Stud Scan for wood, Metal Scan for metal).
  - The scanning depth may be exceeded. The device has limits for each mode.
- **False Positives (Detecting objects where none exist):**
  - Re-calibrate the device in a different, clear area.
  - Ensure your hand is not covering the sensor area during scanning.
  - Consider the wall material; some materials may cause interference.

6. Specifications

Specification	Detail

Manufacturer	JAXWQ
Model Number	TH410
Part Number	410-A-Black-1
Item Weight	8.1 ounces
Product Dimensions	7 x 2 x 3 inches
Batteries Included	Yes (1 x 9V)
Stud Scan Depth	Up to 1.5 inches (38mm)
Metal Scan Depth	Up to 2.36 inches (60mm)
AC Scan Depth	Up to 2 inches (51mm)

Image 11: A visual chart detailing the maximum scanning depths for Stud Scan (0.5, 1, 1.5 inches), Metal Scan (2.36 inches), and AC Scan (2 inches).

7. Warranty and Support

For warranty information and customer support regarding your JAXWQ TH410 Stud Finder, please refer to the documentation included with your purchase or contact JAXWQ customer service directly. Contact details can typically be found on the manufacturer's official website or through your retailer.
When contacting support, please have your model number (TH410) and purchase date available.

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