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› Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level User Manual

Johnson 40-6174

Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level

Model: 40-6174 | Brand: Johnson

1. INTRODUCTION

The Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level is a versatile and durable tool designed for various leveling and layout applications. It features a robust aluminum frame and a built-in laser that projects a dot, horizontal line, or vertical line up to 100 feet. This manual provides essential information for the safe and effective operation and maintenance of your laser level.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged. The standard package for the Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level includes the following items:

- Magnetic Torpedo Laser Level (Model 40-6174)
- 2 AA Alkaline Batteries
- Leveling Bracket
- 2 Mounting Straps
- Instruction Manual with Warranty Card
- Padded Soft-Sided Carrying Pouch



Image 2.1: The Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level shown with its included accessories: the level itself, a soft-sided carrying pouch, a leveling bracket, mounting straps, and two AA batteries.

3. PRODUCT FEATURES

- **High Accuracy Laser:** Projects a laser beam with an accuracy of $\pm 1/8"$ per 50 feet, suitable for precise leveling and alignment tasks.
- **Multiple Vials:** Equipped with three vials that provide readings for plumb, level, and cross-check, ensuring comprehensive measurement capabilities.
- **Rotating Laser Head:** Features a built-in, rotating head that swivels to project a laser dot, a horizontal line, or a vertical line, offering versatility for various applications.
- **Durable Construction:** Constructed with a machined aluminum frame, providing superior accuracy and durability for demanding job site conditions.
- **Magnetic V-Grooved Base:** The bottom surface is V-grooved to securely fit on pipes and conduits. It also incorporates rare earth magnets for strong attachment to metal surfaces.
- **Compact Design:** Its torpedo design makes it ideal for use in tight spaces and for a wide range of smaller layout applications.



Image 3.1: The Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level demonstrating its laser projection capabilities, showing both horizontal and vertical lines forming a cross.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover, typically found at one end of the laser level.
2. Open the compartment cover.
3. Insert the two (2) AA alkaline batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Securely close the battery compartment cover.

4.2 Mounting the Leveling Bracket

The included leveling bracket provides stability and allows for fine adjustments on various surfaces.

1. Position the laser level onto the leveling bracket.
2. Use the two mounting straps to secure the laser level firmly to the bracket. Ensure the level is stable and does not wobble.
3. The bracket's adjustable feet can be used to make minor height and angle adjustments for initial leveling.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

To turn the laser level on, press the power button located on the device. To turn it off, press the power button again.

5.2 Selecting Laser Mode

The 40-6174 model features a rotating laser head that allows you to select different projection modes:

- **Laser Dot:** Rotate the head to project a single laser dot for point-to-point alignment.
- **Horizontal Line:** Rotate the head to project a horizontal laser line for level alignment.
- **Vertical Line:** Rotate the head to project a vertical laser line for plumb alignment.

5.3 Manual Leveling

This is a manual leveling device. Accurate operation requires the user to level the tool using the integrated vials.

1. Place the laser level on a stable surface or attach it using the magnetic base or leveling bracket.
2. Observe the bubbles in the plumb, level, and cross-check vials.
3. Adjust the position of the level or the leveling bracket until the bubbles in the relevant vials are perfectly centered between the indicator lines. This indicates that the device is accurately leveled or plumbed.

5.4 Using the Magnetic Base

The V-grooved bottom surface with rare earth magnets allows for secure attachment to metal objects.

- Simply place the V-grooved side of the level onto a metal pipe, conduit, or other ferrous surface.
- The magnets will hold the level in place, freeing your hands for other tasks.



Image 5.1: A close-up view of the Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level, highlighting its vials and rotating laser head.

6. MAINTENANCE

6.1 Cleaning

To ensure optimal performance and longevity of your laser level:

- After each use, wipe the exterior of the laser level with a soft, dry cloth to remove dust and debris.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish, plastic components, or optical lenses.
- Keep the laser aperture clean and free from obstructions.

6.2 Storage

Proper storage helps protect the device from damage and maintains its accuracy:

- Store the laser level in its soft-sided carrying pouch when not in use.
- Keep the device in a clean, dry environment, away from extreme temperatures and direct sunlight.
- If storing for extended periods (e.g., more than 30 days), remove the batteries to prevent leakage and potential damage to the battery compartment.

6.3 Battery Care

- Replace batteries when the laser beam appears dim or inconsistent.
- Always use fresh, high-quality AA alkaline batteries.
- Dispose of used batteries responsibly according to local regulations.

7. TROUBLESHOOTING

If you encounter issues with your Johnson Level & Tool 40-6174, refer to the following common troubleshooting steps:

7.1 Laser Not Emitting

- **Check Battery Installation:** Ensure the batteries are inserted correctly with the proper polarity (+/-).

- **Replace Batteries:** If the batteries are old or depleted, replace them with fresh AA alkaline batteries.
- **Verify Power Button:** Ensure the power button is pressed firmly and the device is turned on.

7.2 Inaccurate Readings

- **Manual Leveling:** Confirm that the device is manually leveled correctly, with the bubbles in the vials centered.
- **Stable Surface:** Ensure the laser level is placed on a stable, vibration-free surface.
- **Environmental Factors:** Strong vibrations or extreme temperature changes can affect accuracy. Allow the tool to acclimate to the environment.
- **Physical Damage:** Inspect the level and vials for any signs of physical damage or cracks that might affect readings.

7.3 Weak or Fading Laser Beam

- **Replace Batteries:** This is the most common cause. Install new AA alkaline batteries.
- **Clean Laser Lens:** Gently clean the laser aperture and lens with a soft, lint-free cloth to remove any dust or smudges.

If problems persist after attempting these troubleshooting steps, please refer to the warranty information for support options.

8. SPECIFICATIONS

Feature	Specification
Brand	Johnson
Model Number	40-6174
Material	Aluminum
Color	Red
Style	Magnetic Torpedo Laser Level
Operation Mode	Manual
Accuracy	±1/8" per 50'
Laser Projection Range	Up to 100'
Batteries	2 AA batteries (included)
Item Weight	1.55 pounds
Product Dimensions	7.33 x 1 x 2 inches
UPC	049448276448

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Johnson Level warrants this product against defects in material and workmanship for three years after the confirmed purchase date. At its option, the company will replace or repair the product if it fails under normal use.

9.2 Customer Support

For technical assistance, warranty claims, or further inquiries regarding your Johnson Level & Tool 40-6174 Magnetic Torpedo Laser Level, please refer to the contact information provided with your purchase documentation or visit the official Johnson Level & Tool website for the most up-to-date support resources.

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