

Wiha 33490, 33478

Wiha Insulated T-Handle Hex Driver Set Instruction Manual

Models: Wiha 33490 (Inch Set), Wiha 33478 (Metric Set)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Wiha Insulated T-Handle Hex Driver Sets. This includes the Wiha 33490 Inch Set (6-piece) and the Wiha 33478 Metric Set (5-piece).

Please read this manual thoroughly before using the tools and retain it for future reference. Adherence to these instructions will ensure optimal performance, longevity, and user safety.

2. PRODUCT OVERVIEW

The Wiha Insulated T-Handle Hex Driver Sets are precision-engineered hand tools designed for fastening and unfastening hex screws. Each driver features a T-handle for enhanced torque and comfort, and is individually tested for electrical insulation.

2.1 Wiha 33490 Inch Set (6-Piece)

This set includes six insulated T-handle hex drivers in common inch sizes:

- 5/32 inch
- 3/16 inch
- 7/32 inch
- 1/4 inch
- 5/16 inch
- 3/8 inch



Image: The Wiha 33490 Inch Insulated T-Handle Hex Driver Set, featuring six red T-handle hex drivers of varying sizes.

2.2 Wiha 33478 Metric Set (5-Piece)

This set includes five insulated T-handle hex drivers in common metric sizes:

- 4.0 mm
- 5.0 mm
- 6.0 mm
- 8.0 mm
- 10.0 mm



Image: The Wiha 33478 Metric Insulated T-Handle Hex Driver Set, featuring five red T-handle hex drivers of varying

metric sizes.



Image: A combined view of both the Wiha Inch and Metric Insulated T-Handle Hex Driver Sets, showcasing all eleven tools.

3. SAFETY INFORMATION

These tools are individually tested to 10,000 volts AC and rated for safe use up to 1,000 volts AC. This insulation provides protection against electric shock when working on live electrical components. However, it is crucial to follow all safety protocols and local regulations for electrical work.

- **Always verify the voltage:** Before working on any electrical system, always confirm that the circuit is de-energized or that the voltage is within the tool's rated capacity.
- **Inspect tools before each use:** Check for any damage to the insulation, such as cracks, cuts, or abrasions. Do not use damaged insulated tools.
- **Use appropriate personal protective equipment (PPE):** Always wear safety glasses and other necessary PPE when working with tools, especially in electrical environments.
- **Do not modify tools:** Altering the tools can compromise their insulation and safety features.
- **Keep tools clean and dry:** Moisture and dirt can reduce the effectiveness of insulation.

The insulation is designed to protect against 1000 volts of alternating current (AC). Always exercise extreme caution when working with electricity.

4. SETUP AND INITIAL INSPECTION

Upon receiving your Wiha T-Handle Hex Driver Set, perform the following steps:

1. **Unpack:** Carefully remove all tools from their packaging.
2. **Inspect for Damage:** Examine each hex driver for any signs of shipping damage or manufacturing defects. Pay close attention to the insulation for any cracks, cuts, or punctures. If any damage is found, do not use the tool and contact customer support.
3. **Familiarization:** Identify the different sizes of hex drivers in both the inch and metric sets.

5. OPERATING INSTRUCTIONS

Using the Wiha T-Handle Hex Drivers is straightforward. Follow these guidelines for effective and safe operation:

1. **Select the Correct Size:** Choose the hex driver that precisely matches the size of the screw head. Using an incorrect size can strip the screw head or damage the tool.
2. **Insert the Driver:** Insert the hex tip fully into the screw head. Ensure a snug fit to prevent slippage.
3. **Apply Torque:** Grip the T-handle firmly. For tightening, turn clockwise. For loosening, turn counter-clockwise. The T-handle design allows for comfortable application of torque.
4. **Maintain Control:** Keep a steady hand and apply consistent pressure. Avoid sudden jerks or excessive force that could cause the tool to slip.
5. **Insulation Use:** When working on live electrical circuits (within the 1000V AC rating), ensure that only the insulated portion of the tool comes into contact with energized parts. The insulation extends along the shaft to protect against accidental contact.
6. **Parallel Flats (Model 33478):** The metric set (33478) features parallel flats on the handle to prevent the tool from rolling off work surfaces, enhancing safety and convenience.

6. MAINTENANCE

Proper maintenance ensures the longevity and continued safety of your Wiha T-Handle Hex Driver Sets.

- **Cleaning:** After each use, wipe the tools clean with a dry cloth to remove dirt, grease, or other contaminants. For stubborn grime, a mild, non-abrasive cleaner can be used, followed by thorough drying.
- **Inspection:** Regularly inspect the tool tips for wear or damage. Check the insulation for any signs of degradation, such as cracks, chips, or discoloration. Any tool with compromised insulation should be immediately removed from service and replaced.
- **Storage:** Store the hex drivers in a dry, clean environment, away from extreme temperatures and corrosive substances. Keep them organized to prevent damage and facilitate easy access.
- **Avoid Misuse:** Do not use these tools as pry bars, chisels, or for any purpose other than their intended function as hex drivers.

7. TROUBLESHOOTING

Most issues with hex drivers relate to improper use or tool wear. Consider the following if you encounter problems:

- **Stripped Screw Head:** If the screw head is stripped, it usually indicates that the wrong size driver was used, or excessive force was applied. Ensure the correct driver size is selected and applied with firm, even pressure.

- **Driver Slipping:** Slipping can occur if the driver is not fully seated in the screw head, if the screw head is worn, or if the driver tip itself is worn. Ensure full engagement and inspect both the screw and the tool.
- **Difficulty Applying Torque:** If you struggle to apply sufficient torque, ensure your grip on the T-handle is firm and that you are using the appropriate body mechanics. For very tight fasteners, consider using a penetrating oil if safe to do so, or a tool with a longer lever arm (while respecting the insulation limits).
- **Damaged Insulation:** If the insulation shows any signs of damage, immediately cease use of that specific tool. Damaged insulation compromises the safety rating.

8. SPECIFICATIONS

Feature	Detail
Brand	Wiha
Models	33490 (Inch Set), 33478 (Metric Set)
Material	Premium Quality Tool Steel (Alloy Steel)
Finish Type	Black Oxide Finish
Head Style	Hex
Insulation Rating	Individually tested to 10,000V AC, rated to 1,000V AC
Compliance	Meets/Exceeds EN/IEC 60900, ASTM F-1505-01, VDE 0682/Part 201, DIN 7437, NFPA70E, CSA Specifications (for 33478 Metric Set)
Inch Set Sizes (33490)	5/32", 3/16", 7/32", 1/4", 5/16", 3/8"
Metric Set Sizes (33478)	4.0mm, 5.0mm, 6.0mm, 8.0mm, 10.0mm
Handle Type	T-Shaped, Insulated Plastic
Special Features	Parallel flats for roll-off prevention (33478)

9. WARRANTY AND SUPPORT

Wiha tools are manufactured to high standards and are designed for durability and performance. For specific warranty information, please refer to the warranty documentation included with your purchase or visit the official Wiha website. For technical support, replacement parts, or any inquiries regarding your

product, please contact Wiha customer service through their official channels.

You can find more information and contact details on the [Wiha Store on Amazon](#).