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HILTI TE500-AVR

Hilti TE500-AVR Demolition Hammer

USER MANUAL

1. Introduction and Product Overview

The Hilti TE500-AVR Demolition Hammer is a powerful and efficient tool designed for various chiseling and demolition tasks. It features a best-in-class power-to-weight ratio, making it highly effective for demanding applications. Equipped with Active Vibration Reduction (AVR), this tool significantly enhances user comfort and productivity by minimizing vibration during operation. The chisel can be adjusted to 12 different positions, providing easy access in tight spaces and versatility for various working angles. A lock-on switch is included for continuous chiseling, reducing user fatigue during extended use.

This package includes the TE500-AVR tool along with essential chisels: one TE-YP SM 36 pointed chisel and one TE-YP FM 36 flat self-sharpening chisel, ensuring you have the right accessories for immediate use.



Figure 1: The Hilti TE500-AVR Demolition Hammer, showcasing its robust red and black design with the main handle and auxiliary handle.

2. Safety Instructions

Always adhere to general power tool safety guidelines and specific instructions for demolition hammers to prevent injury and ensure safe operation.

- **Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and heavy-duty gloves. A dust mask is recommended when working in dusty environments.
- **Work Area Safety:** Keep the work area clean and well-lit. Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Ensure the power cord is in good condition and avoid using the tool in wet conditions. Always use a ground fault circuit interrupter (GFCI) when operating in damp locations.
- **Secure Workpiece:** Always secure the material being worked on. Do not hold the workpiece by hand.
- **Proper Grip:** Maintain a firm grip on both the main and auxiliary handles. Be prepared for sudden torque reactions.
- **Avoid Overreaching:** Maintain proper footing and balance at all times.
- **Tool Maintenance:** Regularly inspect the tool for damage. Do not use if the power cord, plug, or any other part is damaged.
- **Vibration Exposure:** Despite Active Vibration Reduction, prolonged use can still cause vibration-related injuries. Take regular breaks and use anti-vibration gloves.
- **Dust Control:** Demolition generates dust. Use appropriate dust extraction systems and ensure good ventilation.

3. Package Contents

Upon opening the package, verify that all components are present and undamaged. The Hilti TE500-AVR Demolition Hammer Performance Package typically includes:

- Hilti TE500-AVR Demolition Hammer Unit
- 1 x TE-YP SM 36 Pointed Chisel (Self-sharpening)
- 1 x TE-YP FM 36 Flat Chisel (Self-sharpening)
- Robust Carrying Case



Figure 2: The Hilti TE500-AVR Demolition Hammer alongside its durable red carrying case, as typically included in the performance package.

4. Setup

1. **Initial Inspection:** Before each use, inspect the tool, power cord, and chisels for any signs of damage or wear. Do not use the tool if any part is compromised.
2. **Attaching the Chisel:**
 - Ensure the tool is unplugged from the power source.
 - Clean the shank of the chisel and the tool's chuck to remove any dust or debris.
 - Insert the chisel into the chuck until it clicks into place. Pull on the chisel to ensure it is securely locked.
3. **Adjusting Chisel Position:** The TE500-AVR allows for 12 different chisel positions.
 - To adjust, rotate the chisel to the desired angle. The chuck mechanism allows for easy rotation without needing to remove the chisel.

4. **Connecting to Power:** Plug the tool into a standard 120-volt AC outlet. Ensure the outlet is properly grounded and, if working in damp conditions, connected to a GFCI.



Figure 3: Side view of the Hilti TE500-AVR Demolition Hammer, highlighting the adjustable auxiliary handle and the robust chuck for chisel attachment.

5. Operating Instructions

1. Starting the Tool:

- Hold the tool firmly with both hands.
- Press the trigger switch to start the hammering action.

2. **Using the Lock-on Switch:** For continuous chiseling operations, engage the lock-on switch. This allows the tool to operate without constant pressure on the trigger, reducing user fatigue. To disengage, press the trigger switch again.

3. Demolition Technique:

- Apply moderate pressure to the tool. Excessive force is not necessary and can reduce efficiency and increase wear.
- Allow the tool's hammering action to do the work.
- Work systematically, breaking material into manageable pieces.

4. **Active Vibration Reduction (AVR):** The TE500-AVR is equipped with Hilti's Active Vibration Reduction system. This technology significantly reduces tool vibration, improving user comfort and allowing for longer operating periods. While AVR is highly effective, it is still recommended to take regular breaks to minimize exposure to vibration.

5. **Stopping the Tool:** Release the trigger switch. If the lock-on switch is engaged, press the trigger switch once more to disengage it and stop the tool. Always unplug the tool from the power source when not in use or before performing any adjustments or maintenance.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Hilti TE500-AVR Demolition Hammer.

- **Cleaning:** After each use, clean the tool thoroughly. Remove dust and debris from ventilation slots using compressed air. Wipe down the exterior with a damp cloth. Do not use harsh chemicals or solvents.
- **Chisel Care:** Keep chisels clean and sharp. The included chisels are self-sharpening, but inspect them for excessive wear or damage. Replace worn chisels to maintain efficiency.
- **Chuck Maintenance:** Periodically clean the tool chuck to ensure smooth insertion and removal of chisels. A small amount of grease can be applied to the chisel shank before insertion to reduce wear.
- **Cord Inspection:** Regularly inspect the power cord for cuts, fraying, or damage. A damaged cord must be replaced by a qualified technician.
- **Storage:** Store the tool in its original carrying case in a dry, secure location, away from direct sunlight and extreme temperatures. Keep it out of reach of children.
- **Professional Servicing:** For internal maintenance or repairs, always contact authorized Hilti service centers. Unauthorized repairs can void the warranty and pose safety risks.

7. Troubleshooting

This section addresses common issues you might encounter with your Hilti TE500-AVR Demolition Hammer. For problems not listed here, or if solutions do not resolve the issue, contact Hilti customer support.

Problem	Possible Cause	Solution
Tool does not start.	No power supply; damaged cord/plug; faulty switch.	Check power outlet and circuit breaker. Inspect cord and plug for damage. If damaged, seek professional repair.
Reduced hammering performance.	Worn or dull chisel; excessive pressure; internal wear.	Replace chisel if worn. Apply moderate pressure. If problem persists, professional servicing may be required.
Excessive vibration (beyond AVR).	Damaged internal components; improper chisel insertion.	Ensure chisel is correctly inserted. If vibration is unusual or severe, discontinue use and seek professional inspection.
Tool overheats.	Blocked ventilation slots; prolonged heavy use.	Clean ventilation slots. Allow tool to cool down during prolonged use. Avoid continuous heavy load.

8. Specifications

Key technical specifications for the Hilti TE500-AVR Demolition Hammer:

Attribute	Value
Model Number	3484551
Power Source	Corded Electric
Voltage	120 Volts
Wattage	1100 Watts
Amperage	3 Amps

Attribute	Value
Single Impact Energy	5.5 ft-lb
Blows Per Minute (BPM)	0-3180
Removal Rate	Up to 22 in ³ /min
Item Weight	20.9 pounds (9.5 Kilograms)
Product Dimensions	18.5 x 4.3 x 9.6 inches
Included Components	1 TE-YP SM 36 pointed chisel, 1 TE-YP FM 36 flat self sharpening chisel
Color	Red, Black
Manufacturer	Hilti
UPC	743153791530



Figure 4: The Hilti TE500-AVR Demolition Hammer with approximate dimensions indicated, providing a visual reference for its size.

9. Warranty and Support

For detailed information regarding the warranty coverage for your Hilti TE500-AVR Demolition Hammer, please refer to the warranty card included with your purchase or visit the official Hilti website. Warranty terms and conditions may vary by region and purchase date.

Should you require technical assistance, spare parts, or professional servicing, please contact Hilti customer support directly. You can find contact information on the official Hilti website or through your authorized Hilti dealer. When contacting support, please have your product model number (TE500-AVR / 3484551) and serial number (if applicable) ready for faster service.

For additional resources and product information, visit the official Hilti website: www.hilti.com

