

## Hyper Tough TD35074B

# Hyper Tough Digital Clamp Meter TD35074B User Manual

Model: TD35074B

## 1. INTRODUCTION

Thank you for choosing the Hyper Tough Digital Clamp Meter TD35074B. This device is designed for safe and accurate measurement of AC/DC voltage, AC current, resistance, diode, and continuity. It features a large LCD display with backlight for clear readings and a non-contact voltage (NCV) detection function for enhanced safety. Please read this manual thoroughly before use to ensure proper operation and to prevent potential hazards.

### Safety Information

**WARNING: To avoid electric shock or personal injury, please observe the following safety rules:**

- Always ensure the meter is in good working condition before use.
- Do not apply voltage or current that exceeds the maximum rated values specified for the meter.
- Exercise extreme caution when working with live circuits.
- Never use the meter if the test leads are damaged or if the meter itself appears damaged.
- Ensure the battery cover is securely closed before operation.
- Do not operate the meter in explosive gas, vapor, or dust environments.
- Always disconnect the test leads from the circuit before changing functions.

## 2. PRODUCT OVERVIEW

The Hyper Tough Digital Clamp Meter TD35074B is a versatile tool for electrical measurements. Familiarize yourself with its components:

- **Current Clamp:** Used for non-contact AC current measurement.
- **Clamp Trigger:** Opens and closes the current clamp.
- **Function Dial:** Selects the desired measurement function.
- **LCD Display:** Shows measurement readings, units, and indicators.
- **Data Hold Button:** Freezes the current reading on the display.
- **Input Jacks (COM, V/ $\Omega$ /+):** For connecting test leads for voltage, resistance, diode, and continuity measurements.

- **NCV Sensor:** Detects AC voltage without physical contact.



Image: Front view of the Hyper Tough Digital Clamp Meter TD35074B, showing the clamp, function dial, LCD screen, and input jacks.

### 3. SETUP

#### Battery Installation

The Hyper Tough TD35074B requires three CR2032 Li-Mn button cell batteries for operation. If the display shows a low battery indicator, replace the batteries immediately.

1. Ensure the meter is turned OFF.

2. Locate the battery compartment on the back of the meter.
3. Use a screwdriver to open the battery compartment cover.
4. Remove the old batteries and insert three new CR2032 batteries, observing the correct polarity (+/-).
5. Replace the battery compartment cover and secure it with the screw.

## Connecting Test Leads

For voltage, resistance, diode, and continuity measurements, connect the provided test leads:

- Insert the **black** test lead into the **COM** (common) input jack.
- Insert the **red** test lead into the **V/ $\Omega$ /+** input jack.



Image: The red and black test leads included with the Hyper Tough Digital Clamp Meter.

## 4. OPERATING INSTRUCTIONS

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Always select the appropriate function before making a measurement. If the measurement range is unknown, start with the highest range and work downwards.

### AC Current Measurement (Clamp)

This function allows for non-contact measurement of AC current flowing through a conductor.

1. Turn the function dial to the desired AC current range (2A, 20A, 200A, or 400A).
2. Press the clamp trigger to open the current clamp.
3. Enclose only one conductor (not a power cord with both live and neutral wires) within the clamp jaws.
4. Release the trigger to close the clamp jaws around the conductor.
5. Read the AC current value on the LCD display.



Image: A hand demonstrating how to use the clamp meter to measure current on a single electrical wire.

## AC/DC Voltage Measurement

To measure AC or DC voltage:

1. Connect the test leads as described in the Setup section.
2. Turn the function dial to the desired AC Voltage (300V~) or DC Voltage (300V=) range.
3. Touch the red test probe to the positive side of the circuit and the black test probe to the negative side (for DC) or across the points for AC.
4. Read the voltage value on the LCD display.

## Resistance Measurement

To measure resistance:

1. Ensure the circuit or component is de-energized before measuring resistance.
2. Connect the test leads.
3. Turn the function dial to the desired Resistance range (2000Ω or 200kΩ).
4. Touch the test probes across the component to be measured.
5. Read the resistance value on the LCD display.

## Diode Test

To test a diode:

1. Ensure the diode is disconnected from the circuit.
2. Connect the test leads.
3. Turn the function dial to the Diode/Continuity function (indicated by a diode symbol).
4. Touch the red test probe to the anode and the black test probe to the cathode of the diode. A forward voltage drop will be displayed.
5. Reverse the probes. The display should show 'OL' (Open Loop) for a good diode.

## Continuity Test

To check for continuity:

1. Ensure the circuit or component is de-energized.

2. Connect the test leads.
3. Turn the function dial to the Diode/Continuity function.
4. Touch the test probes across the points to be tested.
5. If continuity exists (resistance below approximately  $50\Omega$ ), the meter will emit an audible beep.



Image: The Hyper Tough Digital Clamp Meter with its red and black test leads properly connected to the input jacks.

## Non-Contact Voltage (NCV) Detection

The NCV function allows for quick detection of AC voltage without direct contact.

1. Turn the function dial to the NCV position (often integrated with other functions or a dedicated button).
2. Move the NCV sensor (located at the top of the meter) close to the conductor or outlet.
3. If AC voltage is detected, the meter will emit an audible alarm and/or a visual indicator (e.g., flashing LED).

## Data Hold Function

Press the 'HOLD' button to freeze the current reading on the LCD display. Press it again to release the hold and resume live measurements.

## 5. MAINTENANCE

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### Cleaning

To clean the meter, wipe the case with a damp cloth and a mild detergent. Do not use abrasives or solvents. Ensure the meter is completely dry before use.

### Battery Replacement

Refer to the 'Battery Installation' section under 'Setup' for detailed instructions on replacing the CR2032 batteries.

### Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.

## 6. TROUBLESHOOTING

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If you encounter issues with your Hyper Tough Digital Clamp Meter, refer to the following common problems and solutions:

- **No Display or Faint Display:**

Check battery level. Replace batteries if low. Ensure batteries are installed with correct polarity.

- **Incorrect Readings:**

Ensure the correct function and range are selected. Check test lead connections. Verify the circuit is de-energized for resistance/continuity tests.

- **No Continuity Beep:**

Ensure the circuit is de-energized. Check if the resistance is below the continuity threshold (approx. 50Ω).

- **Clamp Measurement Not Working:**

Ensure only a single conductor is enclosed within the clamp jaws. Verify the AC current function is selected.

If problems persist, contact customer support.

## 7. SPECIFICATIONS

Feature	Specification
Display	3 1/2-Digit LCD, Max Reading 1999
AC Voltage	300V
DC Voltage	300V
AC Current	2A / 20A / 200A / 400A
Resistance	2000Ω / 200kΩ
Diode & Continuity Check	Yes
Non-Contact Voltage (NCV)	Yes
Power Source	3 x Li-Mn Button Cell Batteries CR2032
Item Model Number	TD35074B
Manufacturer	Hyper Tough
UPC	889526260828

## 8. WARRANTY AND SUPPORT

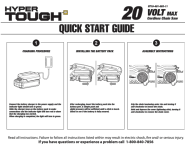
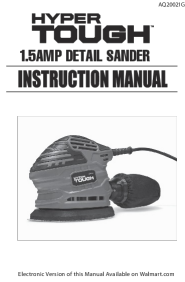


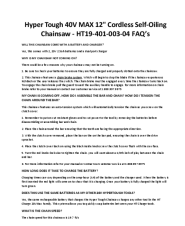

### Warranty Information

The Hyper Tough Digital Clamp Meter TD35074B comes with a **2-year limited warranty**. Please retain your proof of purchase for warranty claims. This warranty covers defects in materials and workmanship under normal use.

### Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please refer to the contact information provided with your product packaging or visit the official Hyper Tough website.

Related Documents - TD35074B

 <p>HYPER TOUGH® 20V MAX CORDLESS CHAIN SAW QUICK START GUIDE</p>	<p><a href="#">Hyper Tough HT19-401-003-11 20V Max Cordless Chain Saw Quick Start Guide</a></p> <p>Quick start guide for the Hyper Tough HT19-401-003-11 20V Max Cordless Chain Saw, covering charging, battery installation, assembly, and safe operation procedures.</p>
 <p>HYPER TOUGH® 1.5AMP DETAIL SANDER INSTRUCTION MANUAL</p> <p>AQ20021G</p>	<p><a href="#">Hyper Tough 1.5AMP Detail Sander Instruction Manual</a></p> <p>Comprehensive instruction manual for the Hyper Tough 1.5AMP Detail Sander (Model AQ20021G), covering safety guidelines, operation, maintenance, specifications, and warranty information.</p>
 <p>HYPER TOUGH® Code Reader</p> <p>Operating Instructions Safety Information Features and Benefits</p>	<p><a href="#">HYPER TOUGH HT300 OBD2 Code Reader User Manual</a></p> <p>This comprehensive user manual provides operating instructions and safety information for the HYPER TOUGH HT300 OBD2 Code Reader. Learn to troubleshoot 1996 and newer OBD2 vehicles, decode 'Check Engine' light problems, retrieve generic and manufacturer-specific codes, and display Freeze Frame Data.</p>
 <p>HYPER TOUGH® 2.0AMP 1/4 SHEET SANDER INSTRUCTION MANUAL</p> <p>AQ20019G</p>	<p><a href="#">Hyper Tough 2.0 Amp 1/4 Sheet Sander Instruction Manual</a></p> <p>Instruction manual for the Hyper Tough 2.0 Amp 1/4 Sheet Sander (Model AQ20019G), covering safety guidelines, tool anatomy, operation, installation, troubleshooting, maintenance, specifications, and warranty information.</p>
 <p>Hyper Tough 40V MAX 12\" Cordless Self-Oiling Chainsaw - HT19-401-003-04 FAQs</p>	<p><a href="#">Hyper Tough 40V MAX 12\" Cordless Self-Oiling Chainsaw: FAQs, Manual Info &amp; Warranty</a></p> <p>Get answers to common questions about the Hyper Tough 40V MAX 12\" Cordless Self-Oiling Chainsaw (HT19-401-003-04). Learn about battery compatibility, chain assembly, oil usage, maintenance, and warranty details.</p>
 <p>Operator's Manual HYPER TOUGH® 20V 7.5-INCH FAN Model No. C1005</p> <p>WARNING: Read, understand and follow all Safety Rules and Operating Instructions in this manual before using this product.</p> <p>Walmart Inc., Bentonville, AR 72716 Walmart.com</p>	<p><a href="#">Hyper Tough 20V 7.5-Inch Fan Operator's Manual</a></p> <p>Comprehensive operator's manual for the Hyper Tough 20V 7.5-Inch Fan (Model C1005), detailing safety, operation, maintenance, and troubleshooting. Essential guide for safe and effective use.</p>