

KZYEE KM10

KZYEE KM10 Power Circuit Probe Tester User Manual

Model: KM10

Brand: KZYEE

1. INTRODUCTION

The KZYEE KM10 Power Circuit Probe Tester is a versatile automotive diagnostic tool designed to quickly identify electrical faults in 6V-30V vehicle systems. It integrates multiple functions including a power circuit probe, automotive circuit tester, electrical tester, wire tracer, short finder, and voltage tester. This manual provides detailed instructions for its safe and effective use, helping you diagnose and resolve automotive electrical issues efficiently.



The KZYEE KM10 Power Circuit Probe Tester, a multi-functional tool for automotive electrical diagnostics.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the KZYEE KM10 Power Circuit Probe Tester:

- Wear appropriate eye protection.
- Do not use the tool on AC voltage circuits or household wiring.
- Ensure the vehicle's ignition is off before connecting or disconnecting the tool, unless specific tests require power.
- Avoid contact with moving engine parts or hot surfaces.
- The integrated 10A auto-reset circuit breaker protects the tool and vehicle from overload. If the breaker trips, allow a few seconds for it to reset.
- Keep the tool clean and dry.

3. WHAT'S IN THE BOX (SETUP)

Before starting, ensure all components are present in your KZYEE KM10 kit:

- Main Circuit Probe Unit
- Sturdy Carrying Case
- Battery Clip (for direct battery connection)
- Cigarette Lighter Adapter (for in-cabin power)
- 20FT Extension Lead
- Probe Tip
- User Manual



All components included in the KZYEE KM10 Power Circuit Probe Kit.

Unboxing and Initial Inspection

Upon receiving your KM10, open the carrying case and verify all listed items are present and undamaged. Familiarize yourself with the main probe unit and its accessories.

Video demonstrating the contents of the KZYEE KM10 package and where to locate the probe.

4. POWERING THE DEVICE

The KM10 offers dual power options for flexibility:

- **Vehicle Battery Power Supply:** Connect the red battery clip to the positive (+) terminal of the vehicle battery and the black battery clip to the negative (-) terminal.
- **Cigarette Lighter Power Supply:** Insert the cigarette lighter adapter into the vehicle's 12V accessory socket.

Ensure a secure connection for stable operation. The device is designed to operate on 6V-30V systems.



The KM10 can be powered directly from the vehicle battery or via the cigarette lighter socket.

Video demonstrating how to connect the KZYEE KM10 to a vehicle's electrical system using battery clips.

5. OPERATING MODES

The KZYEE KM10 features four primary operating modes, accessible via the mode button, for comprehensive electrical diagnostics:

- **DC Voltage:** Measures direct current voltage with 0.1V precision, ideal for battery and wire tests.
- **AC Voltage:** Checks alternating current voltage, including maximum/minimum values and frequency, useful for sensor signals.
- **Resistance:** Performs instant continuity checks and identifies breaks or ground faults.
- **Diode Test:** Allows testing of diodes without removal, checking one-way current flow.

BUILT FOR ONE-HAND POWER. DESIGNED FOR REAL WORK.

Single Tap. Instant Control. No Hassle.



✗ Others: Two Hands
Occupied Inconvenience



**KM10
Ergonomic Grip**
One Hand. Full Control. No Hassle

The KM10's display showing the four core test modes for quick diagnosis.

Video showcasing the various operating modes of the KM10 automotive circuit tester.

6. BASIC TESTING PROCEDURES

6.1 Voltage & Polarity Test

To test voltage and polarity, simply touch the probe tip to the circuit or component. The KM10's color TFT display will show the live voltage reading. Red and green LEDs on the unit will instantly indicate positive (red) or negative (green) polarity, eliminating guesswork.



The KM10 uses red and green LEDs to indicate positive or negative polarity.

6.2 Continuity Test

In Resistance mode, touch the probe tip to one end of the circuit or component and connect the auxiliary ground lead to the other end. The display will show resistance, and an audible beep will confirm continuity. This is useful for checking wires, fuses, and switches.

NO SPARKS. NO DAMAGE. TEST WITH KM10.

Built in Circuit Breaker = Safer Circuits. Safer Hands.

No Breaker = High Risk
Short Circuit or ECU Damage

KM10 Built-In Circuit Breaker
Safer for You and Your Vehicle.

Performing a continuity test with the KM10 to verify circuit integrity.

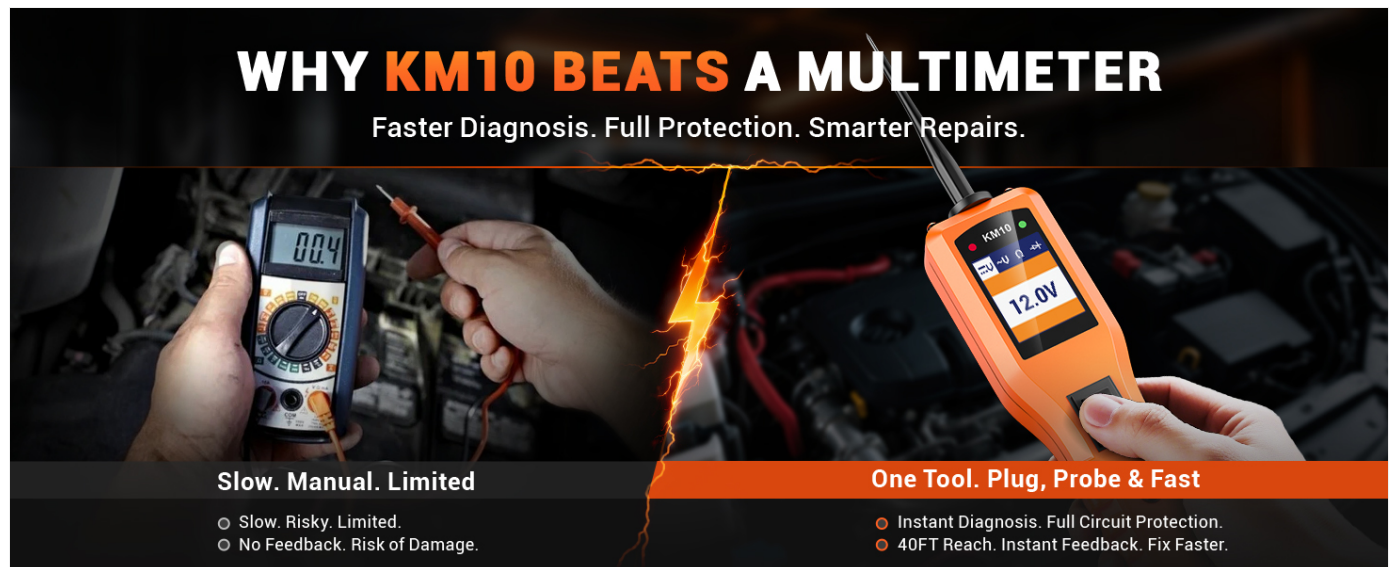
6.3 Component Activation

The KM10 allows you to safely apply power or ground to components for testing. Connect the probe to the component, then press the power switch to apply positive or negative voltage. This helps verify component functionality before

replacement. Examples include testing cooling fans, fuel pumps, relays, injectors, and solenoids.

WHY KM10 BEATS A MULTIMETER

Faster Diagnosis. Full Protection. Smarter Repairs.



Slow. Manual. Limited	One Tool. Plug, Probe & Fast
○ Slow. Risky. Limited. ○ No Feedback. Risk of Damage.	○ Instant Diagnosis. Full Circuit Protection. ○ 40FT Reach. Instant Feedback. Fix Faster.

Illustrations of different methods for activating components using the KM10.

Video demonstrating how to test a solenoid using the KZYEE KM10.

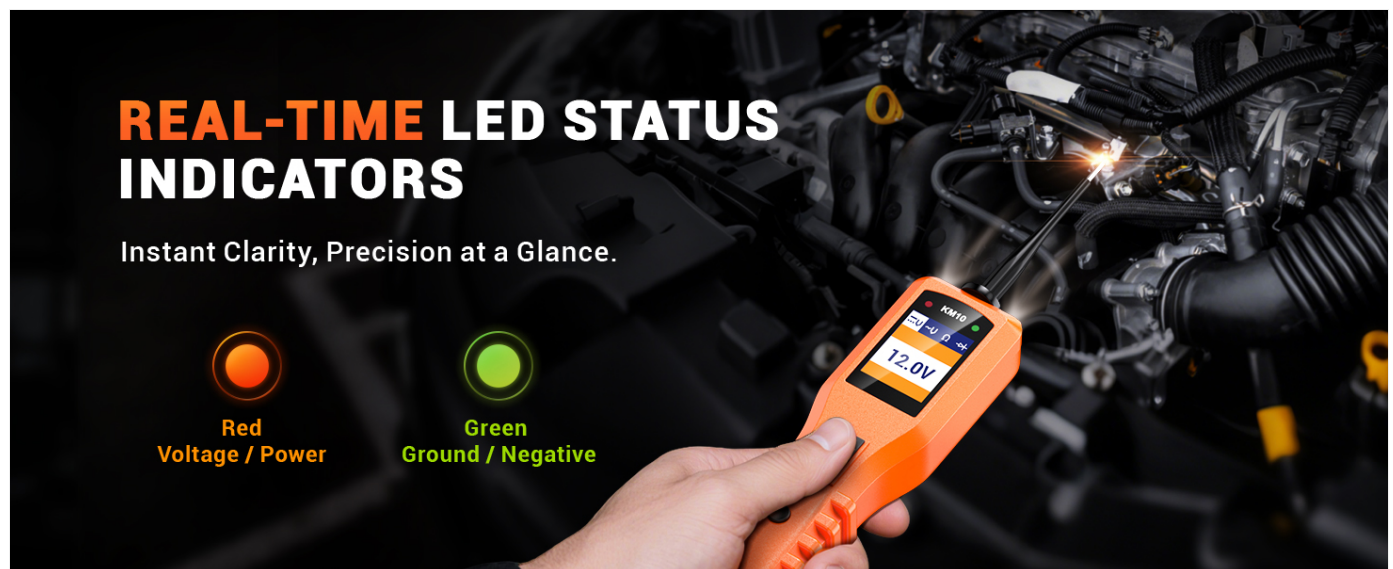
Video showing how to activate components directly in your hand with the KM10.

7. ADVANCED DIAGNOSTICS: LIVE WAVEFORM ANALYSIS

The KM10's color TFT display provides real-time waveform analysis, functioning as a mini-oscilloscope. This feature allows you to view live voltage, frequency, duty cycle, PWM signals, injector pulses, and sensor waveforms. This visual feedback is crucial for identifying intermittent faults, unstable grounds, weak sensor outputs, and signal dropouts, leading to more accurate and faster troubleshooting.

REAL-TIME LED STATUS INDICATORS

Instant Clarity, Precision at a Glance.



Red	Green
Voltage / Power	Ground / Negative

The KM10's live waveform display for detailed signal analysis.

8. TROUBLESHOOTING

The KM10 is designed to simplify electrical troubleshooting. Here are common diagnostic scenarios:

- **Finding Short Circuits:** Use the probe to trace circuits. A sudden drop in voltage or a change in polarity indication can pinpoint a short. The auto-reset circuit breaker will trip if a direct short is encountered, protecting the circuit.
- **Locating Open Circuits:** Test for voltage at various points along a circuit. An absence of voltage where expected

indicates an open circuit.

- **Identifying Bad Grounds:** Connect the probe to a suspected ground point and check for voltage. A voltage reading indicates a poor ground connection.
- **Testing Fuses:** Use the continuity test function to quickly check if a fuse is blown without removing it.

DUAL POWER MODES. FULL FLEXIBILITY.

Seamless Testing Indoors or Under the Hood.



In-Cabin Mode



Under-the-Hood Mode



The KM10 assists in quickly finding shorts and fixing ground issues.

Video demonstrating fast detection of shorts, grounds, and continuity with the KM10.

9. SPECIFICATIONS

Feature	Specification
Brand	KZYEE
Model	KM10
Power Source	Vehicle 12V Battery Power Supply or Cigarette Lighter Power Supply
Minimum Operating Voltage	6V
Maximum Operating Voltage	30V
Item Weight	3.5 ounces
Item Dimensions	11 x 8.8 x 2.9 inches
Measurement Type	Multimeter (DC/AC Voltage, Resistance, Diode)
Safety Certification	CE, ETL
Cable Length	20FT main cable + 20FT extension (40FT total reach)

10. WARRANTY AND SUPPORT

The KZYEE KM10 Power Circuit Probe Tester comes with a**60-day money-back guarantee** and a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable performance under normal use conditions.

For any technical assistance, troubleshooting, or warranty claims, please contact KZYEE customer support. 24/7

assistance is available via Support@kzyeetech.com.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question