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› KZYEE KM05 Power Circuit Probe Kit and ANCEL BST100 Battery Tester User Manual

KZYEE KM05, BST100

KZYEE KM05 Power Circuit Probe Kit & ANCEL BST100 Battery Tester

User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the KZYEE KM05 Power Circuit Probe Kit and the ANCEL BST100 Battery Tester. These tools are designed to assist in diagnosing automotive electrical systems and evaluating battery health. The KM05 offers multiple testing modes for circuits, while the BST100 specializes in battery, cranking, and charging system analysis.



Figure 1.1: The KZYEE KM05 Power Circuit Probe and ANCEL BST100 Battery Tester kit.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the KZYEE KM05 and ANCEL BST100:

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle's ignition is off and the parking brake is engaged before connecting or disconnecting the tools.
- Avoid contact with moving engine parts or hot surfaces.
- Do not use the tools if they appear damaged.
- Keep the tools away from moisture and flammable materials.
- The KM05 is equipped with overload protection. If the circuit breaker trips, allow the tool to reset before continuing.

3. PRODUCT COMPONENTS

The KZYEE KM05 Power Circuit Probe Kit includes the following main components:

- KZYEE KM05 Power Circuit Probe
- ANCEL BST100 Battery Tester
- Auxiliary Ground Lead
- Battery Connection Clips
- Extension Cable (for KM05)

4. SETUP AND CONNECTION

4.1 KZYEE KM05 Power Circuit Probe Setup

1. Connect the auxiliary ground lead to a suitable chassis ground point on the vehicle.
2. Connect the power clips of the KM05 to the vehicle's battery terminals (red to positive, black to negative).
3. The KM05 will power on automatically once connected.

4.2 ANCEL BST100 Battery Tester Setup

1. Ensure the vehicle's ignition is off.
2. Connect the red clamp of the BST100 to the positive (+) battery terminal.
3. Connect the black clamp of the BST100 to the negative (-) battery terminal.
4. The BST100 will power on from the battery's voltage.

5. OPERATING THE KZYEE KM05 POWER CIRCUIT PROBE

The KM05 features four distinct working modes for diagnosing electrical systems. These modes can be cycled through by pressing the Mode Button on the device.



Figure 5.1: The KM05 display showing its four working modes.

5.1 Working Modes

- **DC Voltage (0-60V):** Reads DC voltage with a resolution of 0.1 volts.
- **AC Voltage (0-60V/0-10KHz):** Displays maximum voltage, minimum voltage, and frequency.
- **Resistance (0-100K Ω):** Measures resistance between the probe tip and the auxiliary ground lead.
- **Diode (0-3V):** Identifies the positive and negative poles of a diode.

5.2 Activating Components

The KM05 can activate components both in-hand and in-vehicle. By applying power or ground signals, you can test the functionality of components such as blower motors, power window motors, relays, and lights. This helps determine if a component is intact or faulty.

5.3 Continuity Test

Use the continuity test function to detect open circuits in vehicle wiring. Connect the probe tip to one end of the wire and

the auxiliary ground lead to the other end or a known good ground. The device will indicate continuity.

5.4 Overload Protection

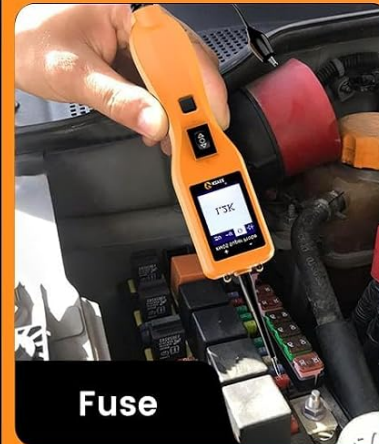
The KM05 includes an internal circuit breaker that trips if the tool becomes overloaded, protecting the device. If the breaker trips, the tool will shut down and reset automatically.

WIDE APPLICATION

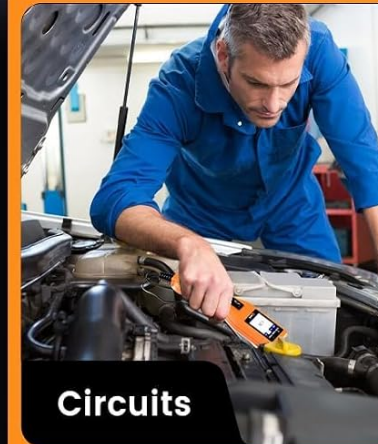
Ideal for checking voltage, switches, relays, diodes, resistors, fuses, and circuits, quickly identifying faults to help you reduce diagnostic time for automotive electrical systems.



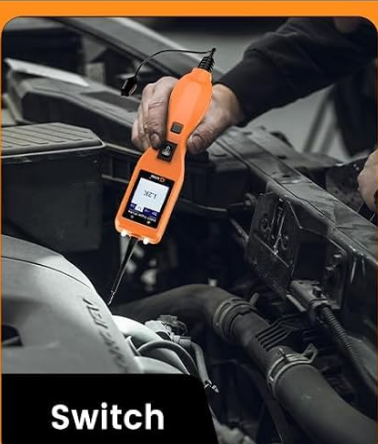
Turn signal



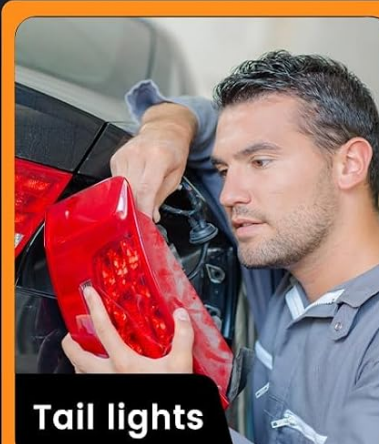
Fuse



Circuits



Switch



Tail lights



Car bulbs

Figure 5.2: The KM05 is suitable for various automotive electrical checks, including turn signals, fuses, and circuits.

ACCURATE, SIMPLE, EASY TO USE

Not just for 12-volt to 42-volt vehicles



Figure 5.3: The KM05 is compatible with various vehicles, including cars, SUVs, trucks, motorcycles, buses, and ships.

6. OPERATING THE ANCEL BST100 BATTERY TESTER

The ANCEL BST100 is designed to test 12V batteries and their associated cranking and charging systems. It provides accurate analysis of battery health.

BATTERY HEALTH MASTER

Advanced Car Battery Tester

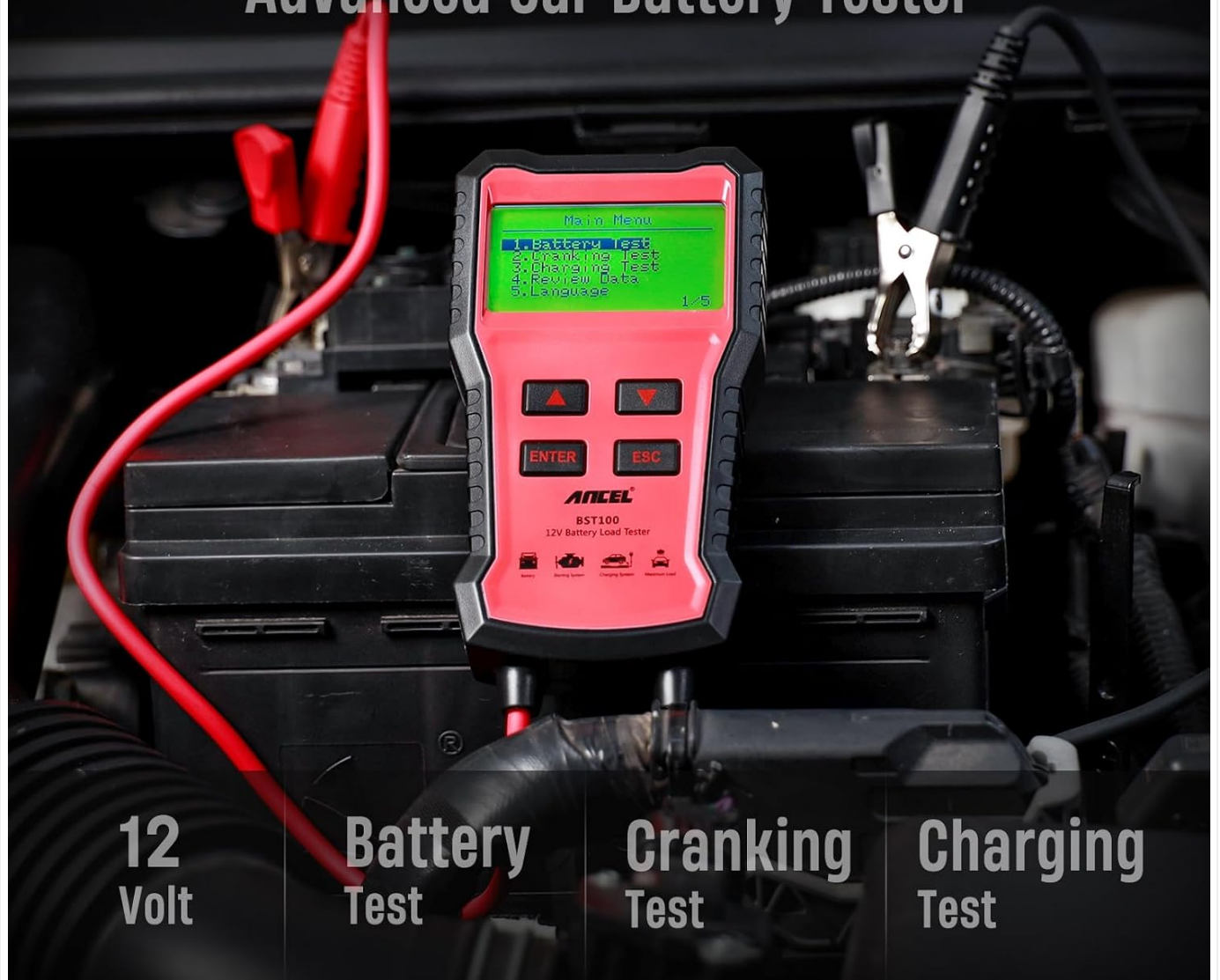


Figure 6.1: The ANCEL BST100 Battery Tester connected to a vehicle battery for health assessment.

6.1 Main Menu Options

After connecting the BST100, the main menu will appear, offering the following options:

- **Battery Test:** Performs a comprehensive test on the battery's state of health, state of charge, and actual CCA capacity.
- **Cranking Test:** Analyzes the vehicle's starting system, including starter motor performance and cranking voltage.
- **Charging Test:** Evaluates the vehicle's charging system, including generator output and rectifier diode ripple.
- **Review Data:** Allows viewing of previously saved test results.
- **Language:** Selects the desired language for the interface.

VERSATILE 12V BATTERY TESTER

Quickly Diagnoses Batteries in
Various Vehicles

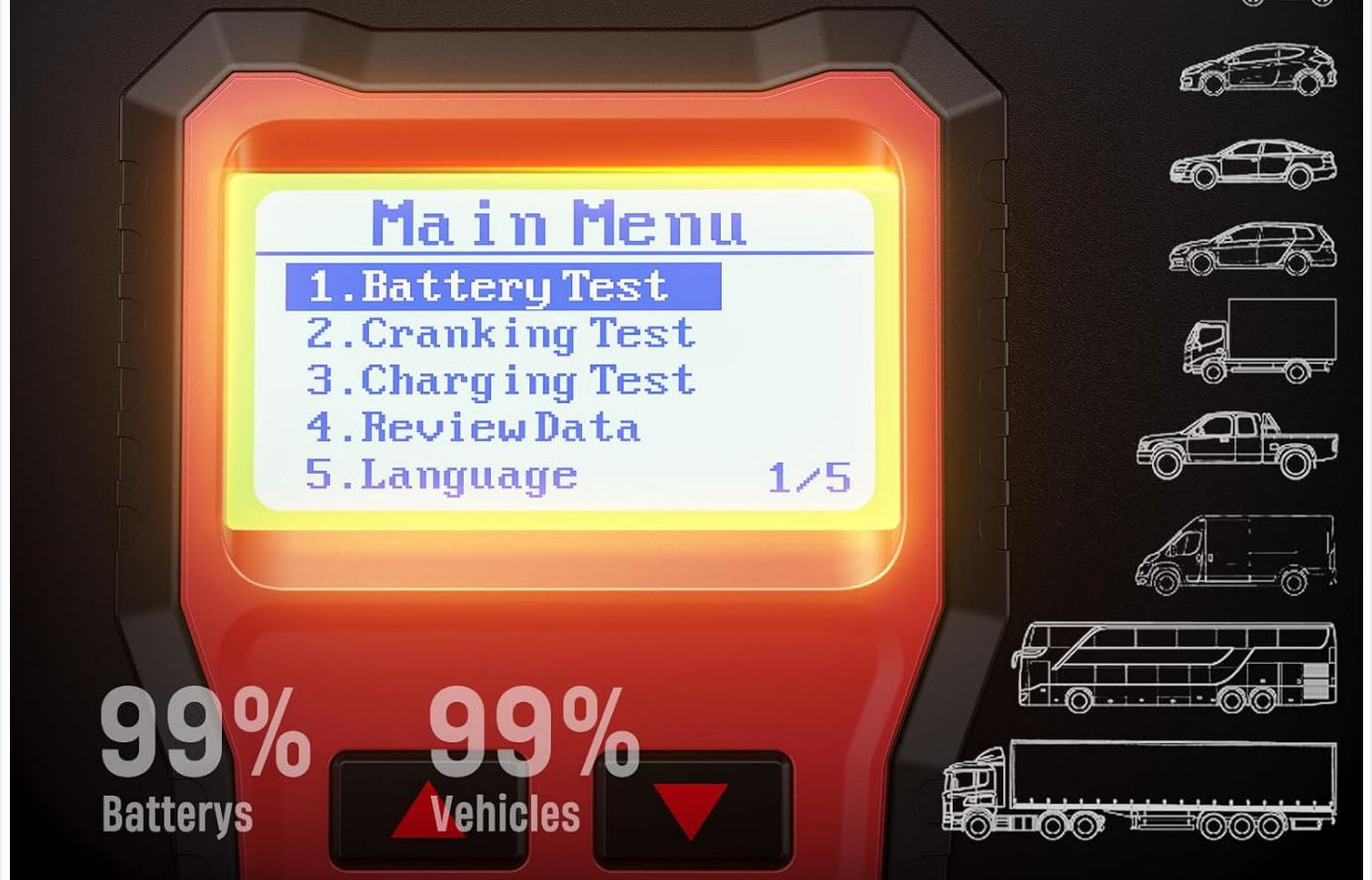


Figure 6.2: The BST100 main menu displaying various test options and vehicle compatibility.

6.2 Battery Compatibility

The BST100 is compatible with all 12V 100-2000CCA batteries, including:

- Ordinary Lead Acid Battery
- AGM Flat Plate Battery
- AGM Spiral Battery
- Gel Battery
- EFB Battery

It is not suitable for 6V, 8V, 24V batteries, or lithium batteries.

PRECISE BATTERY TESTER

Do More with BST100

VOLTAGE

For 12 volt batteries,
not fit for 6V, 8V or 24V batteries
and lithium batteries

BATTERY TYPE

Regular Flooded, AGM Flat Plate,
AGM Spiral, GEL, EFB

TEST STANDARDS

CCA, DIN, JIS, EN, IEC, GB,
SAE, MCA, BCI, CA



Figure 6.3: The BST100 provides precise battery testing, detailing voltage, battery types, and supported test standards.

AUTO BATTERY TESTER

Reliable Starts Every Trip Worry Free



EARLY WARNING

Detects potential issues before they cause vehicle failure

PRECISE TESTING

Accurately measures battery health and performance

AUTO DETECTION

Automatically identifies battery issues without requiring additional parameters

Figure 6.4: The BST100 offers early warning, precise testing, and auto-detection for battery issues.

7. MAINTENANCE

To ensure the longevity and accurate performance of your KZYEE KM05 and ANCEL BST100:

- Clean the tools with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents.
- Inspect cables and connectors for damage before and after each use. Replace if necessary.
- Store the tools in a dry, cool environment, away from direct sunlight and extreme temperatures.
- Keep the probe tip of the KM05 clean and free of debris.

8. TROUBLESHOOTING

8.1 KZYEE KM05 Troubleshooting

- **No Power:** Ensure the power clips are securely connected to the vehicle battery and the battery has sufficient

charge. Check for any blown fuses in the vehicle's power supply to the diagnostic port if applicable.

- **Circuit Breaker Trips Frequently:** This indicates an overload. Reduce the current draw or check for short circuits in the component being tested. Allow the tool to reset.
- **Inaccurate Readings:** Verify that the auxiliary ground lead is connected to a good chassis ground. Ensure the probe tip is making solid contact with the test point.

8.2 ANCEL BST100 Troubleshooting

- **No Display:** Ensure the clamps are correctly and securely connected to the battery terminals. The battery must have at least 8V for the tester to power on.
- **Error Message:** Refer to the specific error code displayed on the screen. Common errors include poor connection, battery voltage too low, or incorrect battery type selection.
- **Inconsistent Results:** Ensure battery terminals are clean and free of corrosion. Retest after ensuring a stable connection.

9. SPECIFICATIONS

9.1 KZYEE KM05 Power Circuit Probe

- **DC Voltage Range:** 0-60V (Resolution: 0.1V)
- **AC Voltage Range:** 0-60V (Frequency: 0-10KHz)
- **Resistance Range:** 0-100KΩ
- **Diode Test:** 0-3V
- **Overload Protection:** Internal circuit breaker
- **Operating Voltage:** 12V/24V vehicle systems

9.2 ANCEL BST100 Battery Tester

- **Test Range:** 100-2000 CCA
- **Voltage Range:** 12V batteries only (not for 6V, 8V, 24V, or lithium)
- **Battery Types:** Regular Flooded, AGM Flat Plate, AGM Spiral, GEL, EFB
- **Test Standards:** CCA, DIN, JIS, EN, IEC, GB, SAE, MCA, BCI, CA
- **Accuracy:** 99.8% (as per manufacturer claims)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official KZYEE website. Keep your proof of purchase for warranty claims.

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