

## MOTOPOWER MP0514A, MP00205A, MP69033

# MOTOPOWER MP0514A 12V Battery Tester, MP00205A 12V 800mA Battery Charger, and MP69033 OBD2 Code Reader Instruction Manual

Model Numbers: MP0514A, MP00205A, MP69033

Brand: MOTOPOWER

## 1. INTRODUCTION

This manual provides comprehensive instructions for the MOTOPOWER MP0514A 12V Battery Tester, MP00205A 12V 800mA Battery Charger/Maintainer, and MP69033 OBD2 Code Reader. These tools are designed to assist in diagnosing and maintaining your vehicle's battery and electrical systems, as well as reading engine diagnostic trouble codes. Please read this manual thoroughly before use to ensure safe and effective operation.



Figure 1.1: The MOTOPOWER bundle including the battery tester, charger, and OBD2 code reader.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when working with automotive batteries and electrical systems:

- Wear eye protection and protective clothing.
- Ensure adequate ventilation when working with batteries.
- Avoid sparks, flames, and smoking near batteries.
- Connect positive (+) to positive (+) and negative (-) to negative (-) terminals unless otherwise specified.
- Disconnect the negative terminal first when removing a battery, and connect it last when installing.
- Keep tools and metal objects away from battery terminals to prevent short circuits.
- Refer to your vehicle's owner's manual for specific safety guidelines.

## 3. PACKAGE CONTENTS

Your MOTOPOWER product package includes:

- MOTOPOWER MP0514A 12V Battery Tester
- MOTOPOWER MP00205A 12V 800mA Battery Charger/Maintainer
- MOTOPOWER MP69033 OBD2 Code Reader
- User Manuals for each device (or combined)

## 4. PRODUCT OVERVIEW

### 4.1. MOTOPOWER MP0514A 12V Battery Tester

The MP0514A is a compact digital battery and alternator tester designed for quick and accurate readings. It features a digital LCD screen for voltage display and colored LEDs to indicate battery state of charge and alternator status. It includes reverse-hookup and over-voltage protection for safe operation.

### 4.2. MOTOPOWER MP00205A 12V 800mA Battery Charger/Maintainer

The MP00205A is an automatic battery charger, maintainer, trickle charger, and desulfator. It is suitable for all 12-volt lead-acid, flooded, or sealed maintenance-free batteries (AGM and gel cell). It incorporates multi-level safety protections including overcharge, short circuit, and reverse polarity protection, along with a 24-hour timer for safe maintenance.

### 4.3. MOTOPOWER MP69033 OBD2 Code Reader

The MP69033 is a multi-function OBD2 code reader that helps diagnose engine light issues. It features a built-in DTC lookup library and can read/erase codes, view freeze frame data, check I/M readiness, and display various vehicle information and real-time data streams.

## 5. SETUP

### 5.1. MOTOPOWER MP0514A Battery Tester Connection

1. Ensure the vehicle engine is off and cool.
2. Connect the black clamp to the negative (-) battery terminal.
3. Connect the red clamp to the positive (+) battery terminal. The device will power on automatically.

### 5.2. MOTOPOWER MP00205A Battery Charger/Maintainer Connection

1. Ensure the charger is unplugged from the AC outlet.
2. Connect the black clamp to the negative (-) battery terminal.
3. Connect the red clamp to the positive (+) battery terminal.
4. Plug the charger into a standard AC outlet. The charging process will begin automatically.

### 5.3. MOTOPOWER MP69033 OBD2 Code Reader Connection

1. Locate the vehicle's 16-pin Data Link Connector (DLC), usually under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the 'OFF' position.
3. Plug the OBD2 connector of the MP69033 into the vehicle's DLC.
4. Turn the vehicle's ignition to the 'ON' position (engine off). The device will power on.

## 6. OPERATING INSTRUCTIONS

### 6.1. MOTOPOWER MP0514A 12V Battery Tester

Once connected, the MP0514A will display the battery voltage on its digital screen. LEDs will indicate the battery's state of charge (Full, Medium, Low, Empty) and alternator status (High, Good, Dead).



Figure 6.1: MP0514A Battery Tester displaying voltage and battery status.

### Battery State of Charge Test

- Connect the tester to the battery terminals as described in Section 5.1.
- The digital display will show the current voltage (e.g., 12.52V).
- Observe the LEDs on the left side:
  - **FULL (Green):** Battery is fully charged.
  - **MEDIUM (Yellow):** Battery is partially charged.
  - **LOW (Red):** Battery needs charging.
  - **EMPTY (Red):** Battery is deeply discharged or dead.

### Alternator Output Test

- With the tester connected, start the vehicle engine.

- Observe the LEDs on the right side (Alternator section):
  - **HIGH (Yellow):** Alternator output is too high.
  - **GOOD (Green):** Alternator is charging correctly.
  - **DEAD (Red):** Alternator is not charging or is faulty.

## Applied For All 12V Batteries & Charging Systems

- Voltage Test - 4~20V DC
- Battery Status LED Display
- Alternator Output Analyze

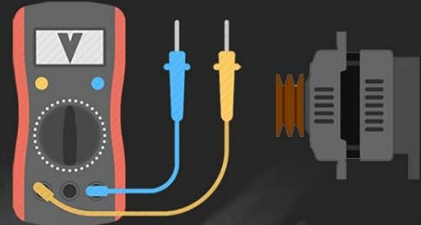


Figure 6.2: MP0514A Battery Tester in use within a vehicle's engine bay.

### Reverse Polarity Protection

If the clamps are connected in reverse (red to negative, black to positive), the 'REVERSE' LED will illuminate, indicating an incorrect connection. This feature prevents damage to the tester and battery.

Video 6.1: Demonstration of the MOTOPOWER MP0514A Battery Tester, including connection, voltage reading, alternator test, and reverse polarity warning.

### 6.2. MOTOPOWER MP00205A 12V 800mA Battery Charger/Maintainer

Once connected and plugged in, the charger will automatically detect the battery type and condition, initiating the appropriate charging mode.



# CHARGE DEAD BATTERIES

## Down to 4volts for safety design



### Soft Start Dead Batteries

For batteries under 8volts, 0.5amp pulse current to activate the battery performance automatically

Figure 6.3: MP00205A Battery Charger connected to a vehicle battery.

#### Charging Modes & Indicators

- **Desulfating:** If the battery is sulfated, the charger may enter a desulfation mode to restore battery performance.
- **Charging (Red LED):** Indicates the battery is actively being charged.
- **Absorption (Yellow LED):** The battery is nearing full charge, and the charger is reducing current.
- **Charged (Green LED):** The battery is fully charged, and the charger has switched to maintenance mode.

#### Soft Start & Safety Features

- The charger features a soft start function for batteries under 8 volts, applying a 0.5 amp pulse current to activate performance.
- It includes overcharge, short circuit, and reverse polarity protection.
- A 24-hour timer terminates the charge and enters maintaining mode once the voltage is above 14V, ensuring safety and preventing overcharging.

# AUTOMATIC DESULFATE

- **RECONDITION**

Restoring the battery back to its maximum performance

- **PULSE CURRENT TECHNOLOGY**

Removing the troublesome crystals and absorb into the charge cycle



Figure 6.4: MP00205A Charger in desulfation mode, restoring battery performance.



# TIMER SAFETY PROTECTION



Figure 6.5: MP00205A Charger highlighting its timer safety protection against overcharge.

## 6.3. MOTOPOWER MP69033 OBD2 Code Reader

After connecting the MP69033 to the vehicle's DLC and turning the ignition ON, the device will power up and display the main menu. Use the navigation buttons to select desired functions.



# WIDE CAPABILITY

Support most gasoline vehicles since 1996



Figure 6.6: MP69033 OBD2 Code Reader demonstrating wide compatibility with gasoline vehicles.

## Key Functions

- **Read Codes:** Displays Diagnostic Trouble Codes (DTCs) and their descriptions.
- **Erase Codes:** Clears DTCs from the vehicle's computer. This will also turn off the Check Engine Light.
- **View Freeze Frame:** Shows a snapshot of sensor data when a DTC was set.
- **I/M Readiness:** Checks if the various emissions-related systems are operating correctly and are ready for inspection.
- **Vehicle Information:** Retrieves the Vehicle Identification Number (VIN) and other relevant vehicle data.
- **Data Flow/Real-time Curve:** Displays live sensor data, such as engine RPM, vehicle speed, coolant temperature, and calculated load value.

# PROFESSIONAL DIAGNOSTIC TOOL

**Read codes, Erase codes, VIN check**

**Accurate & Easy to read**

**All in one**

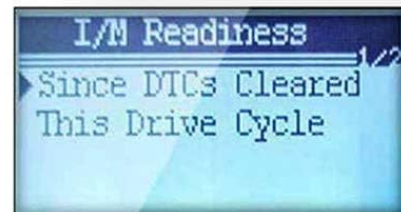
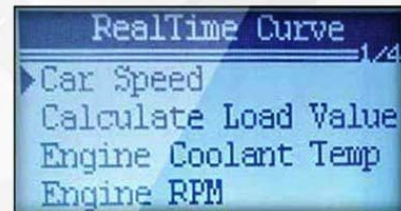


Figure 6.7: MP69033 OBD2 Code Reader showing various diagnostic screens.





Figure 6.8: MP69033 OBD2 Code Reader displaying real-time data in a vehicle.

## 7. MAINTENANCE

- Keep all devices clean and dry. Wipe with a soft, damp cloth if necessary.
- Store devices in a cool, dry place away from direct sunlight and extreme temperatures.
- Inspect cables and clamps for any signs of damage before each use. Do not use if damaged.

## 8. TROUBLESHOOTING

### 8.1. MP0514A Battery Tester

- **No Display:** Ensure clamps are securely connected to the correct battery terminals. Check battery voltage; if below 4V, the device may display 'LO'.
- **'REVERSE' LED On:** Disconnect clamps and re-connect with correct polarity (red to positive, black to



negative).

- **Voltage 'LO' (below 4V) or 'HI' (above 20V):** The device is operating outside its measurement range.

## 8.2. MP00205A Battery Charger/Maintainer

- **Not Charging:** Ensure proper connection to battery and AC outlet. Check for reverse polarity (charger has protection).
- **Battery Not Reaching Full Charge:** Battery may be severely sulfated or faulty. The desulfation mode may take time. If unsuccessful, the battery may need replacement.

## 8.3. MP69033 OBD2 Code Reader

- **No Power:** Ensure the OBD2 connector is securely plugged into the vehicle's DLC and the ignition is ON. Check vehicle battery voltage.
- **Link Error:** Verify the ignition is ON. Check for a loose connection. Try the device on another vehicle to rule out a device fault.

# 9. SPECIFICATIONS

## 9.1. MOTOPOWER MP0514A 12V Battery Tester

- **Voltage Testing Range:** 4-20V DC
- **Indicators:** LED for Battery State of Charge (Full, Medium, Low, Empty), LED for Alternator Status (High, Good, Dead), LED for Reverse Polarity.
- **Protection:** Reverse-hookup and Over-voltage protection.

## 9.2. MOTOPOWER MP00205A 12V 800mA Battery Charger/Maintainer

- **Input:** 100-240V AC
- **Output:** 12V DC, 800mA
- **Battery Types:** All 12-volt lead-acid, flooded, sealed maintenance-free batteries (AGM and gel cell).
- **Charging Stages:** Desulfating, Charging, Absorption, Charged (Maintenance).
- **Safety Standards:** ETL Listed.
- **Protection:** Overcharge, short circuit, reverse polarity.
- **Special Features:** Soft start for low voltage batteries, 24-hour timer for maintenance mode.

## 9.3. MOTOPOWER MP69033 OBD2 Code Reader

- **Display:** LCD screen.
- **Functions:** Read/Erase DTCs, View Freeze Frame, I/M Readiness, Vehicle Info (VIN), Data Stream, Real-time Curve.
- **Compatibility:** Supports most gasoline vehicles since 1996 (OBD2 compliant).

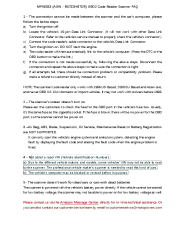
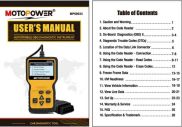


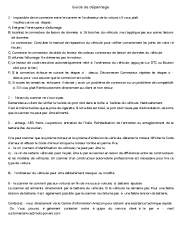

# 10. WARRANTY AND SUPPORT

MOTOPOWER products typically come with a manufacturer's warranty. Please refer to the product packaging or the official MOTOPOWER website for detailed warranty information and terms. For technical support or

service inquiries, please contact MOTOPOWER customer service directly.

© 2025 MOTOPOWER. All rights reserved.

## Related Documents - MP0514A, MP00205A, MP69033

	<p><a href="#">MOTOPOWER MP69033 OBD2 Code Reader Scanner FAQ and Troubleshooting</a></p> <p>Frequently asked questions and troubleshooting guide for the MOTOPOWER MP69033 OBD2 Code Reader Scanner. Covers connection issues, power problems, VIN reading, system compatibility, and support contact information.</p>
	<p><a href="#">MOTOPOWER MP69033 OBD2 Scanner User Manual - Car Diagnostic Tool Guide</a></p> <p>Comprehensive user manual for the MOTOPOWER MP69033 OBD2 scanner. Learn how to connect, read codes, view live data, and understand vehicle diagnostics for your car.</p>
	<p><a href="#">MOTOPOWER MP69033 OBD2 Scanner User Manual - Diagnostic Tool Guide</a></p> <p>Comprehensive user manual for the MOTOPOWER MP69033 OBD2 scanner. Learn how to connect, read codes, erase codes, view freeze frame data, check I/M readiness, and understand vehicle information for automotive diagnostics.</p>
	<p><a href="#">MOTOPOWER MP69041 OBD2 Scanner User Manual</a></p> <p>Comprehensive user manual for the MOTOPOWER MP69041 5-in-1 Car OBD2 Scanner, detailing its features for reading check engine fault codes and diagnosing vehicle issues.</p>
	<p><a href="#">Troubleshooting Guide for MOTOPOWER MP69033 OBD2 Code Reader Scanner</a></p> <p>A comprehensive troubleshooting guide for the MOTOPOWER MP69033 OBD2 Code Reader Scanner, covering common issues such as connection problems, scanner not powering on, VIN reading errors, and compatibility with vehicle battery conditions. Provides step-by-step solutions and contact information for support.</p>
	<p><a href="#">MOTOPOWER MP00205A Battery Charger Owner's Manual</a></p> <p>Comprehensive owner's manual for the MOTOPOWER MP00205A 12V 800mA automatic battery charger and maintainer. Includes preparation, usage instructions, troubleshooting, and specifications.</p>