

# BATTERY MATE

## 12V/24V DIGITAL BATTERY TESTER

### Instructions For The Operation

- 1- Properly connect the battery clip to the battery post. The red clip is connected to the positive "plus" of the battery and the black clip is connected to the negative "-" of the battery. If connected reversed, the LCD screen displays the error message "ERR" and the buzzer will sound, displaying the actual voltage of the battery under test correctly after 5 seconds, while the LED light will light up to indicate the battery's real-time status.
- 2- If connected correctly, the LCD screen lights up and displays the voltage of the battery under test, while the LED light lights up to indicate the battery status.
- 3- The switch has a total of three gears (default in the middle gear), the LCD screen displays "12V" and "V" when dialed to 12V (right), while the LED light lights up to indicate a 12V battery voltage rating status light, and "24V" when dialed to 24V (left) and "V", while the LED lights up to indicate a 24V battery voltage rating status light, and when dialed to the middle position (both clips are empty) display only the "V" and the real-time voltage value of the battery or generator, automatically identify the 12/24V battery, higher than 18V means the 24V battery system.
- 4- To test the alternator charging system, adjust the switch to the middle position, keep the tester connected to the battery post, and then start the engine. The output voltage will display on the LCD screen and the LED light on the right lights up to show the alternator status.

### Refer To The LED-related Instructions Below

- The LED light comes on in full gear. Battery in normal condition (12.6-13.5V on a 12V battery)
- The LED light comes on in the MEDIUM gear. The battery voltage is slightly lower. Charge required
- The LED light comes on in low gear. The battery is low. Charge required, buzzer prompt.
- The LED light comes on in empty gear. The battery is completely powered out. Charge required, buzzer prompt
- The LED light comes on in empty gear. The battery voltage is too low. The battery should have a battery problem. Check the battery by a professional battery engineer to see if it should be replaced.
- The LED light comes on in REVERSE gear. The battery tester is connected in reverse to the battery post, the buzzer prompts
- The LED light comes on in the GOOD gear. The alternator output voltage is CORRECT
- The LED light comes on in the HIGH gear. The alternator output voltage is high. The normal output of the alternator voltage is 13.6-14.5V on a 12V battery

The voltage test table is as follows:

Lamp name	FULL (full power)	MEDIUM (slightly lower)	LOW (low voltage)	EMPTY (no power)	Note
12Voltage range	12.6-14.5V	11.9-12.6V	9.9-11.9V	≤9.8V	battery voltage
24Voltage range	≥14.6V	13.0-14.5V	≤13.0V	Connected in reverse to test high-level power	generated voltage
Lamp name	HIGH (high voltage)	GOOD(normal)	DEAD (charge bad)	REVERSE (reverse)	