

OBD Memory Saver



Fig. 1

Quick User Guide

The Front Panel indications:

This **RED** LED will light up when powered ON.

When Amp draw detected more than 4.0A at the OBDII connector, this LED **RED** will remain lighted up and the power to OBDII will cut OFF.

This **RED** LED will flash and the buzzer will sound if:

1. Input voltage is less than 12.0V

2. If the input voltage is below 11.0V, the output will cut OFF and the OBDII Link **RED** LED will light up.

Once connected to the car DLC, the **RED** LED will be OFF if the connection is GOOD and this **GREEN** LED will light up. If not, the red LED will still stay ON.

If the connection to vehicle DLC is no good, it will display 0.0 Amp.

Show Power source Voltage status.

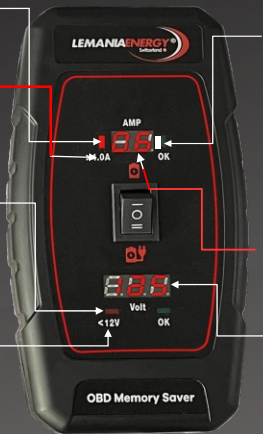


Fig. 1

The OBD Memory Saver Unit:

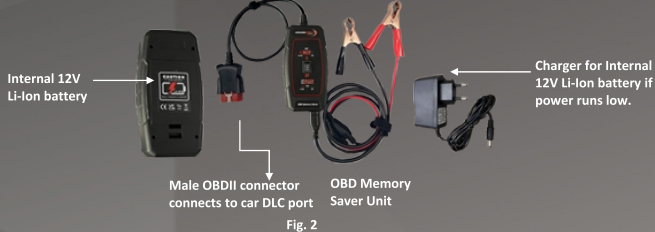


Fig. 2

Operations:

1. This OBD Memory Saver comes with a replaceable 12VDC Li-Ion Rechargeable Battery besides another option of connection to external 12V car battery for powering the ECU during battery change. It also comes with an AC-DC adapter charger for charging the internal 12V Li-Ion battery when its power is becoming low (See Fig. 1 above).

Switch the operation button to position "I" (Fig. 3) to get power from internal battery, and the device will show the voltage (Fig. 4).

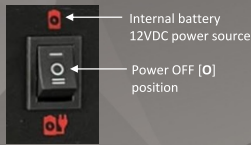


Fig. 3



Fig. 4

2. If the Volt display shows that its below 11 Volt (Fig. 5), its alarm buzzer will sound and the **RED** LED stayed ON. This indicates that the power is low and needs to be fully charged first before use.



Fig. 5

3. Also, the tool can connect to the external battery cable with clamps to OBD Memory Saver unit for clamping it to an external 12V car battery for power (Fig. 6).



Fig. 6

4. Switch the operation button to position "II" (Fig. 7) and the device will show the voltage for the external battery (Fig. 8).



Fig. 7



Fig. 8

Note:

If battery voltage is less than 12.0V (i.e. the **GREEN** LED [OK] (Fig. 9) will turn ON, and still power its OBDII port when connected to the vehicle DLC but if the internal battery voltage detected is below 11.0V, no power output to the OBD2 connector thereby the **RED** LED [4.0 A] (Fig. 5) will turn ON and also the alarm buzzer will sound.



Fig. 9

5. If the battery is 12V above and the green LED lighted up (Fig. 8 above), connect the OBD Memory Saver to the Diagnostic Link Connector (DLC) in the car which is the OBDII female connector (Fig. 9).



Fig. 9

6. While it is plugged into the vehicle DLC port, the OBD Memory Saver will immediately conduct checks on the connections for the following:
 1. If the connection is OK, the **RED** LED [4.0A] will turn OFF and the **GREEN** LED will light up.
 2. While connected, the current (Amp) draw detected is less than 4.0A, the **RED** LED [4.0A] will turn OFF the **GREEN** LED will light up.



Fig. 10

8. In conclusion when any of the **RED** LED is lighted up (Fig. 13 & 14), it is best to investigate the cause and rectify the problem first before proceeding to disconnect the battery from the car for replacement to avoid the loss of memory in the ECU.



Fig. 13



Fig. 14

9. The ideal situation is that when both the **GREEN** LEDs lighted up (Fig. 15), it is safe to proceed with the battery replacement.



Fig. 15

7. If the **RED** LED [4.0A] remains turned ON, then it indicates that either the connections are not good or it has detected the amp draw from the ECU is more than 4.0 Amp (Fig. 11).



Fig. 11



Fig. 12

Note:

When the **RED** LED remains always turned ON, it indicates two scenarios:

- 1.) The tool has detected current draw of more than 4.0 Amps that caused the power output to cut OFF resulting 0.0 Amp display (Fig. 12).
- 2.) Poor connection at the DLC port that did not create any current (Amp) draw resulting 0.0 Amp display.

Specifications:

Operating Voltage	: 9.0 VDC ~ 15.0 V DC (max)
Volt Display resolution	: 0.1 VDC
DC Volts Accuracy	: ± 1% Reading
Amps draw detection	: up to 4.0 Amps maximum. Over 4.0 Amps will be depicted as 0.0 Amps (Power output will cut OFF).
Amp display resolution:	0.1 Amp
Internal power source	: Re-chargeable 12VDC Li-Ion Battery (2000mAh)
Optional power source	: External 12V Car battery
OBDII connector cable	: 0.6 M
External battery cable	: 1.1 M
Li-Ion Charger	: Input: AC 100 V ~ 240 V, 50/60Hz Output: DC 12.6 V, 1.0 Amp
Safety	: Reverse polarity protected.
Working Temperature	: 0°C (32°F) ~ 50°C (122°F)
Working Humidity	: 10% ~ 80 %