

MAGNETI MARELLI

Memory Saver Ms-7E

User's manual

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MS-7

PROFESSIONAL AUTO COMPUTER MEMORY SAVER

Specification:

Internal Battery Type-----Maintenance-Free AGM lead-Acid

Voltage-----12V DC

Battery Capacity-----7 Ah

Dimensions (H x W x D)----9.625 in H X 9.625 in W X 7.125 in D
(24.5 cm H X 24.5 cm W X 18 cm D)

Weight----- 3 KGS / 6.6 LBS



IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

SAVE THESE INSTRUCTIONS – Charge the Memory Saver internal battery immediately after purchase, after every use and every 30 days. This manual will show you how to use your Memory Saver safely and effectively. Please read, understand and follow these instructions and precautions carefully.

WARNING:

Pursuant to California Proposition 65, MS-7 contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.




IMPORTANT SAFETY INSTRUCTIONS

1. To reduce the risk of electric shock, unplug the Memory Saver from the outlet before attempting any maintenance or cleaning.
2. Do not operate the Memory Saver if it has received a sharp blow, been dropped or otherwise damaged in any way.
3. Do not disassemble the Memory Saver. Incorrect reassembly may result in a risk of fire or electric shock.
4. Do not operate the Memory Saver with a damaged cord or plug.
5. Do not permit the internal battery of the Memory Saver to freeze.
6. Never charge a frozen battery.
7. Make sure that the Memory Saver cable connectors make tight connections.





CHARGING THE INTERNAL BATTERY

IMPORTANT: CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE, AND EVERY 30 DAYS TO KEEP THE MEMORY SAVER'S INTERNAL BATTERY FULLY CHARGED.

To check the internal battery status, turn MS-7 internal battery switch to “1” position on the front of the Memory Saver.



1. A **red light**  indicates a 50% or less charge and you should immediately recharge the Memory Saver.
2. A **yellow light**  indicates a 50% to 75% charge. The Memory Saver may be used but should be recharged as soon as possible.
3. A **green light**  indicates the internal battery is fully charged.

CHARGING THE INTERNAL BATTERY USING AC/DC CHARGER

1. Stop the attempt to remove vehicle's battery and disconnect MS-7 from the vehicle.
2. Plug the AC/DC adaptor charger into a grounded 120V or 220V AC wall outlet.
3. Plug the AC/DC adaptor charger's small plug into the charge input of MS-7.
4. The CHARGING (**RED**) LED  will glow indicating charging.
5. The CHARGED (**GREEN**) LED  will light when the battery has reached full charge.
6. Please replace the internal battery of MS-7 when the DEFECTIVE BATTERY (**YELLOW**) LED  lights.
7. If the charging (**RED**) LED  still lightens after 24 hours charging, please replace the internal battery due to the age and condition.

WARNING - Please don't use the male-to-male cigarette plug cable to charge the internal battery of MS-7 while driving because the unstable charging current will damage the fuse of cigarette plug or MS-7.

WARNING - Please don't charge the internal battery when the LED of the CHARGING

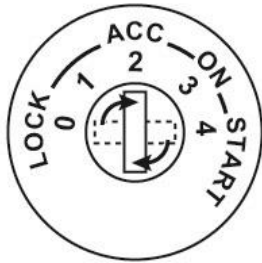
(**RED**)  or the CHARGED (**GREEN**)  still lightens because the maintain mode can be overridden and the internal battery can be overcharged.

OPERATING INSTRUCTIONS

1. Make sure that MS-7 internal battery is fully charged.
2. Connect the MS-7 Memory Saver's OBD connector or cigarette plug to vehicle's OBD connector or cigarette port. Make sure that the connector or cigarette plug is fully engaged.
3. **TURN ALL VEHICLE LOADS OFF: Turn off loads (blowers, interior light, headlight, air conditioning, radio, etc.).**

IMPORTANT –

When using the male-to-male cigarette plug cable to vehicle's port, please turn the car key to the position of "ACC".



Please don't turn the key to the position at "ON" or "START" which may damage the fuse of cigarette plug or MS-7 due to the large current load.

4. With the MS-7 internal battery switch still in the "O" position, the LED on the cigarette plug should light up indicating the connection to vehicle's battery. If it is not lit, please check the connection.
5. Turn MS-7 internal battery switch to the "1" position.
6. If the Green LED of internal battery status light is still lit, which is indicating both with a good connection and an adequate operating voltage. If the LED of Red or Yellow is lit, the internal battery voltage has dropped. Please charge the MS-7. If nothing lights up, please charge the internal battery of MS-7.
7. Disconnect the vehicle's battery cables

WARNING – **The vehicle's electrical system is receiving power from the MS-7 Memory Saver through the OBD or cigarette plug connection. Therefore, the vehicle's battery connectors will still conduct electricity and should be covered with an insulator to prevent the connectors from touching metal or each other and causing a short circuit.**

POWERING A 12V DC DEVICE

1. The MS-7 is a power source for all 12V DC accessories that are equipped with 12V accessory plug. Make sure the device to be powered is OFF before inserting the 12V DC accessory plug into the 12V DC accessory outlet.
2. Plug the 12V DC device into the DC power outlet, and turn the 12V DC device on.
3. If the 12V DC device draws more than 4A or has a short circuit, the internal circuit breaker of the MS-7 will disconnect the power to the device. Disconnect the 12V DC device. The breaker will automatically reset after an overload occurs.

IMPORTANT – DO NOT power a 12V DC device with the MS-7 Memory Saver while using the OBD connector or cigarette plug to power the radio or the on-board diagnostic computer. Doing so will drain the internal battery of MS-7 and reduce available run time.

WARNING – The MS-7 should be treated with care and caution. Keep it away from explosive gases, flames and spark. Never submerge in water and drop or expose to extreme temperatures.

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