

FJC, Inc.

Part # 52005

12V BATTERY Maintainer

INPUT: 110V AC 60Hz OUTPUT: 12V DC 500mA

INSTRUCTION MANUAL

SAFETY WARNINGS AND PRECAUTION

Use this Battery Maintainer only to maintain the charge of a flooded lead-acid battery. It is not recommended for deep-cycle batteries. This battery maintainer is intended only to keep a fully charged battery from losing its charge. It is not designed to charge a battery that is discharged below 12 volts.

CAUTION: TO PREVENT BATTERY DAMAGE: DO NOT USE on gel batteries or AGM (absorbed glass mat) type batteries.

- **Do not operate the Battery Maintainer in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** *Electrical products create sparks which may ignite the dust or fumes.*
- **Keep bystanders, children, and visitors away while operating the Battery Maintainer.** *Distractions can cause you to lose control. Protect others in the work area from sparks. Provide barriers or shields as needed.*
- **Grounded products must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.**
- **Double insulated products are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** *Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.*

- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** *There is an increased risk of electric shock if your body is grounded.*
- **Do not abuse the Power Cord. Never use the Power Cord to carry the Battery Maintainer or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** *Damaged Power Cords increase the risk of electric shock.*
- **An extension cord should not be used unless absolutely necessary. If an extension cord is used, make sure wire size is large enough to operate battery maintainer.**
- **Stay alert, watch what you are doing, and use common sense when operating the Battery Maintainer. Do not operate the Battery Maintainer under the influence of drugs, alcohol, or medication.**
- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair and clothing away from the Battery Maintainer.** *Loose clothes, jewelry, or long hair can be caught in the Battery Maintainer, causing personal injury.*
- **Use safety equipment. Always wear eye protection during assembly, use, and maintenance.**
- **Do not overload the Battery Maintainer. Use the correct Battery Maintainer for your application.** *The Battery Maintainer will perform better and safer at the speed and capacity for which it is designed.*
- **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the Battery Maintainer.** *Such preventive safety measures reduce the risk of turning on the product accidentally.*
- **Maintain the Battery Maintainer with care. Do not use a damaged Battery Maintainer. Tag damaged Battery Maintainer "Do not use" until repaired.**
- **Battery Maintainer service must be performed only by qualified repair personnel.** *Service or maintenance performed by unqualified personnel could result in a risk of injury.*
- **Always unplug the Battery Maintainer from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.**
- **Marine Batteries (batteries used in boats) should be removed from vessel before charging.**
- **WARNING! People with pacemakers should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.**
- **Do not expose the Battery Maintainer equipment to moisture, rain or wet conditions.** *Water entering electrically powered equipment will increase the risk of electric shock.*

- Do not service or disassemble the battery maintainer.
- Follow all warnings, cautions and instructions from battery manufacturer.
- **WARNING: Risk of Explosive Gases:** Working around a Lead-acid battery is dangerous. Lead-acid batteries generate explosive gases during normal operation. It is very important that you read these instructions every time you use this battery maintainer and follow them.

 Read the ENTIRE IMPORTANT SAFETY WARNINGS AND PRECAUTIONS section at the beginning of this manual before set up or use of this product.

Display Features

LED Display Lights:

Red LED: Will indicate when the battery maintainer is connected to a 110 volt power supply.

Green LED:

- Green LED On Continually: Indicates battery is charging
- Green LED Flashing: Indicates battery maintainer is in float stage.
- RED and GREEN LED Lights off: The 12V leads are connected to the battery incorrectly (reversed polarity), there is a short circuit or there is not 110V AC power connected to the battery maintainer.

CAUTION: TO PREVENT BATTERY DAMAGE: DO NOT USE on gel batteries or AGM (absorbed glass mat) type batteries.

NOTE: Check battery voltage before use. Do not use maintainer if the battery voltage is less than 12 volts. If battery voltage is less than 12 volts, charge battery with battery charger until battery voltage is above 12 volts and then connect maintainer.

The battery maintainer prevents self-discharging of the battery. It maintains a battery charge for batteries rated from 5 to 125 amp-hours, by providing a 13.2 volt DC maximum output.

Charging Procedure

1. **Check Battery Maintainer and Battery Status.**
2. **Place the Battery Maintainer on a stable, flat surface. Then check for cracked or broken parts, damaged power cords, clamps, and any other condition that may affect the safe operation of the Battery Maintainer.**

Connecting the Battery Maintainer to your Battery

3. **Make sure area where battery is being charged is well ventilated.**
4. **Place the Battery Maintainer on a stable, flat surface as far from battery as possible.**
5. **DO NOT PLACE Maintainer on top of battery.**
6. **Connect the Red Charging Clamp to the positive (+) terminal of the battery. Connect the Black Charging Clamp to the negative (-) terminal or appropriate ground. Do not connect black charging clamp to fuel lines or carburetor.**

Connect the Battery Maintainer to the Power Supply (110V AC)

7. **Connect the plug Input into 110V AC power supply. RED LED indicator light will light up.**
8. **Green LED:**
 1. **Green LED On Continually: Indicates battery is charging**
 2. **Green LED Flashing: Indicates battery maintainer is in float stage.**
9. **RED and GREEN LED Lights off: The 12V leads are connected to the battery incorrectly (reversed polarity), \ there is a short circuit or there is not 110V AC power connected to the battery maintainer.**

Disconnecting Battery Maintainer from Battery

1. **Disconnect the plug from the 110V AC power supply. RED LED indicator light will go out.**
2. **Disconnect the 12V leads from the battery.**

Charging Stages

- **GREEN LED continuously on: The battery maintainer output is a constant charging voltage of 13.3V for a 12V battery.**
- **GREEN LED Flashing: The battery is fully charged and ready to use. The Battery Maintainer is in the float stage.**
- **RED and GREEN LED Lights off: The 12V leads are connected to the battery incorrectly (reversed polarity), \ there is a short circuit or there is not 110V AC power connected to the battery maintainer.**

Battery Maintainer Maintenance

With a dry cloth, remove any oil and residue from the Battery Maintainer after each use. Do not clean with flammable or corrosive liquids. Store in a secure, safe and dry location that can be locked and that is out of the reach of children.

SPECIFICATIONS PARAMETERS

- Input: 110V AC 60Hz
- Output: 12VDC 500 mA
- Battery Type: 12V Flooded Lead-Acid Batteries only.
- Output Display: GREED LED and RED LED
- Operating Environment: 0~40C, 32~104F

WARRANTY

FJC warrants this Battery Maintainer for 1 year from date of purchase with proof of purchase. As we cannot control the use of our products, the guarantee shall not exceed the purchase price. We make no other warranty of any kind expressed or implied. This Battery Maintainer is warranted to be free from defects in material and workmanship under normal use and service for 1 year after the sale of this product by FJC, Inc. FJC's sole obligation under this warranty shall be to repair or replace any defective product or parts thereof, which are returned to our factory. The warranty shall not apply to any product or part which has been subject to misuse, negligence or accident. FJC, Inc. shall not be responsible for any special or consequential damages and the warranty as set forth is in lieu of all other warranties either expressed or implied. However FJC, Inc. makes no warranty or merchantability in respect to this battery maintainer for any particular purpose other than that stated in this manual.

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RETURNS

All merchandise to be returned must have a prior authorization from FJC, Inc. Contact FJC, Inc. before sending any product back to FJC.