

# NOWNER'S MANUAL AND USER GUIDE

MP00206A BATTERY CHARGER / MAINTAINER

Premium Automatic Battery Charger Series - Senior



PRIOR TO USE, READ AND UNDERSTAND PRODUCT SAFETY INFORMATION. FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN ELECTRICAL SHOCK. EXPLOSION OR FIRE, WHICH MAY RESULT IN SERIOUS INJURY, DEATH, DAMAGE TO DEVICE OR PROPERTY. DO NOT DISCARD THIS INFORMATION.

KEEP CHILDREN AWAY. THIS UNIT IS NOT FOR USE BY CHILDREN AND SHOULD ONLY BE OPERATED BY ADULTS.

# **GENERAL SAFETY INSTRUCTIONS:**

- · Before connecting the charger/maintainer to your battery or to a GFCI (Ground Fault Circuit Interrupter) 120/240V AC outlet, read all instructions and warnings provided with the battery charger/maintainer.
- This equipment employs parts that produce arcs or sparks, Therefore, if used in a garage or enclosed area, the unit MUST be placed not less than 18 inches above the battery. Keep all cords and th charger/maintainer unit away from heat, liquids, gaseous or explosive atmospheres and sharp edges.
- · Do not operate this unit in a closed area or restrict ventilation in any way.
- Only use attachments recommended for use specially with this product.
- · Do not operate the charger/maintainer if it has received a sharp blow, drect hit of force, been dropped or otherwise damaged in any way.
- · Do not disassemble the charger/maintainer.
- Never allow battery acid to come in contact with this unite.
- When not in use, store indoors in a dry place- out of reach of children.
- . Do not use the charger for any job except that for which it is intended.
- NEVER attempt to charge a damaged/dead battery.

# PERSONAL SAFETY PRECAUTIONS:

- Someone should be within the range of your voice or close enough to come to your aid when working near a lead acid battery.
- Be extra cautions to reduce risk of dropping a metal tool onto a battery. It may spark or short circuit electrical parts that may cause
- · Remove personal metal items such as rings, bracelets, necklaces and watches when working with a lead acid battery. A lead acid battery can produce a short circuit current high enough to weld a ring, or similar metal object, causing a severe burn.
- To reduce risk of electrical shock, disconnect the unit from any power source prior to any maintenance or cleaning. Pull the cord by the plug rather than the cord when disconnecting the unit from the power source. Never carry the unit by the cord or yank it to disconnect from receptacle. NEVER submerge this unit in liquids; do not expose it to rain, snow or use when wet. Keep clear of all liquids when in use.
- The battery lead with terminals may be left attached to the battery. Use care to safely stow the battery lead away from heat sources, sharp edges and avoid pinching or crushing. The battery lead with alligator clips should be removed before installing or using the battery.

#### SURFACE MOUNT INSTALLATION:

NOTE: The following surface mount installation instructions are intended to be used as a general guide. Your specific requirments may be different. Mounting hardware is not included. DO NOT make any eletrical connections to the charger or batteries until the following steps are completed.

# INSTALLATION STEPS:

- 1. Mount the charger as far away from the intended charging location of the battery as the DC electrical cord (battery charging cables between charger and battery) permits while in use. Allow for free air ventilation with a minimum of 8 inches of clear, unobstructed space around, in front or above the charger. Be sure to place the charger in an accessible area where all indicators are viewable.
- 2. Do not install charger on carpeted, upholstered, vinyl or varnished areas or above the intended charging location of the battery.
- 3. Using the charger as a template, use a small awl or pencil to mark the position of each mounting hole.
- 4. Use an appropriate drill bit to drill pilot holes in the marked locations as described in step 3.
- 5. Position the charger over the mounting holes and secure by installing quality hardware that meets your application requirements (mounting hardware not included).
- 6, Run your cables away from sharp objects and secure them in place with plastic cable ties. Coil excess cable; do not cut or shorten then length of the cables. Keep clear of moving objects such as drawers and doors that can damage the wires.

# CHARGING BATTERIES

# **A CAUTION**

LOCATE CHARGER AS FAR AWAY FROM THE BATTERY AS DC ELECTRICAL CABLE (CABLE FROM CHARGER TO BATTERY) PERMITS. NEVER PLACE CHARGER DIRECTLY ABOVE BATTERY BEING CHARGED.

NEVER ALLOW BATTERY ACID TO DRIP ON CHARGER.

DO NOT OPERATE BATTERY IN A CLOSED-IN AREA OR RESTRICT VENTILTION IN ANY WAY.

DO NOT PLACE ANY OBJECTS ON TOP OF THE CHARGER.

# SAFETY PRECAUTIONS PRIOR TO CHARGING BATTERIES:

- If the battery needs to be removed from vehicle to charge, follow the vehicle manufacturer's instructions. Make sure all vehicle accessories are off, as not to cause an arc.
- \* Be sure the area around the charger and batteries is well ventilated while the battery is being charged. Gases can be forcefully blown away using a piece of cardboard or other nonmetallic material as a fan.
- If applicable, add distilled water in each cell until the electrolyte reaches the specified level by the battery manufacturer. This helps purge excessive gases from cells. Do not attempt to add distilled water to batteries without removable caps.
- · Carefully follow the manufacturer's charging instructions. Study all manufacturer's precautions, such as removing or not removing cell caps while charging, in addition to rates of charge.
- If an extension cord must be used, insure that cord is industrial grade and grounded. Check extension cord before use for damage, bent prongs, cuts and bare wires. Replace it if damaged.

## **OPERATING INSTRUCTIONS**

- 1. Open all battery compartments and ventilate for at least 15 minutes before applying AC power to your charger. While charging your batteries, make sure to keep your battery compartment open allowing for free air ventiltion.
- 2. Follow battery manufacturer's recommendations for battery cell caps (loose caps if applicable).
- 3. Plug the AC power cord into a nearby 120/240V AC GFCI (Ground Fault Circuit Interrupter) protected outlet before connecting the charger to a battery.
- 4. Connect the charger to the battery using either the evelet terminal connectors or the alligator clips. Confirm that you have connected the evelet terminal connectors or the alligator clips properly with the battery posts. ( RED "+", BLACK "-")
- 5. The LED indicator will turn on to indicate different charging modes. See the explanation below:

	Charging Fully Charged	Solid Red - Bulk charging mode.  Solid Green - The bulk charging process is complete and then the charger enters the absorption step to charge the battery with small current to 100% fully charged and then maintains the battery.
Ţ	Power On	Solid Green Power On LED, Electric power is supplied to the charger.

- 6. When you are ready to use your vehicle:
- a. Disconnect the charger from AC power.
- b. Disconnect the charger from the battery.

## TROUBLE SHOOTING GUIDE

- Be sure the charger/maintainer is connected to a GFCI ( Ground Fault Circuit Interrupter) AC outlet Check AC power at the AC outlet. Make sure all connections and GFCI ( Ground Fault Circuit Interrupter) has not tripped. Using a meter or AC test light, verify that AC power is present at the outer or at the end of the extension cord (if using).
- Check that all charger cables are installed to the correct terminal polarities and that all connections are clean and tight.
- With the AC power removed and the engine off, check the charge level of the battery with a DC meter or tester. If there is no charge level indication for the battery, check the battery with a hydrometer to determine if it has one or more bad cells.
- With the charger on, if the Red charging LED doesn't turn on, proceed with the following:
- a. Disconnect AC power at the GFCI ( Ground Fault Circuit Interrupter) AC outlet.
- b. Remove battery lead from the battery.
- c. Reconnect AC power and battery lead with the battery. Make sure all the connection is tight and correct. If the Red LED turns on, the charger is okay. If the Red LED blinks or doesn'turn on, the battery should be tested with a hydrometer with the charger and engine off to determine if the battery has one or more bad cells.
- d. If the battery is deeply discharged below 8volt, use boost charger to activate the battery and then try again.
- e. After the above checks are made and it is determind that there's no DC voltage output reading or charging indication, contact our customer service for technical help.

## SPECIFICATION & FEATURES:

Input Voltage:	100-240V AC, 50-60Hz	
Output Voltage:	12V DC	
Charging Current:	1.5Amp (1500mA)	
Battery Chemistries:	Wet, Gel, MF, CA, EFB, AGM	
Safety Protections:	Overcharge, Short Circuit, Reverse Connection, Spark free	

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