

# INSTRUCTION MANUAL

**⚠ WARNING! A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION.**

**⚠ WARNING!** Wear ANSI-approved splash-resistant safety goggles and heavy-duty rubber work gloves whenever connecting, disconnecting, or working near battery. Battery acid can cause permanent blindness.

## OPERATION

1. Place the float charger within 3 feet of the battery. Disconnect the quick-connectors from each other.
2. Select the proper connector.
3. To permanently attach the ring terminal connector to the battery:
  - a. Bolt the POSITIVE (RED) ring terminal connector to the POSITIVE (POS, P, +) post of the battery.
  - b. Bolt the NEGATIVE (BLACK) ring terminal connector to the NEGATIVE (NEG, N, -) post of the battery.
4. To temporarily attach the clip connector to the battery,
  - a. Connect the POSITIVE (RED) clip connector to the POSITIVE (POS, P, +) post of the battery.
  - b. Connect the NEGATIVE (BLACK) clip connector to the NEGATIVE (NEG, N, -) post of the battery.

**⚠ WARNING! TO PREVENT SHORT CIRCUIT AND FIRE:** Do not leave the clips attached indefinitely.

**⚠ WARNING!** Do not connect the connector to the carburetor, fuel lines, or sheet-metal body parts.

**NOTE:** The LED may light up and show a flashing red indicator while the cables are disconnected. This is normal.

5. Join the connector's quick-connector plug with the AC adapter.
6. If the cables are connected improperly, disconnect the quick-connector plugs, correct the battery connections, and re-connect the quick-connector plugs.

## LED LIGHT

1. **Flashing Red:** The battery is connected improperly, not connected, or is defective.
2. **Solid Red:** The battery is charging.
3. **Flashing Green:** The battery is nearly completely charged.
4. **Solid Green:** The battery is completely charged, and the maintainer is monitoring the charged battery.

## AFTER USE

1. Separate the quick-connector plugs and cap them with the attached caps.
2. Unplug the AC adapter.
3. Depending on the connector in use, either:
  - Stow the ring terminal connector safely next to the battery. Keep clear of the belts, blades, and any other moving engine parts.
  - Remove the clip connector from the battery.
4. Wipe the charger with a clean, dry cloth and store indoors, out of the reach of children.

## MAINTENANCE

**⚠ WARNING! TO PREVENT SERIOUS INJURY:** Unplug the charger, disconnect any battery, and allow charger to cool completely before performing any inspection, maintenance, or cleaning procedures.

**⚠ WARNING! TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:** Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

1. BEFORE EACH USE, inspect the general condition of the charger. Check for: loose hardware, cracked or broken parts, damaged electrical wiring or cable insulation, and any other condition that may affect its safe operation.
2. If the fuse needs replacing:
  - a. Disconnect the connector from the AC adapter and / or the battery.
  - b. Uncap the fuse housing.
  - c. Remove the spent fuse and replace with a new 7.5A automotive blade-type fuse.
  - d. Recap the fuse housing.

**NOTE:** Aside from the fuse, this device does not contain any user replaceable parts.

3. AFTER USE, wipe external surfaces of the tool with a clean cloth.

# INSTRUCTION MANUAL



MODEL GNA12C

## 12V DELUXE BATTERY MAINTAINER & FLOAT CHARGER

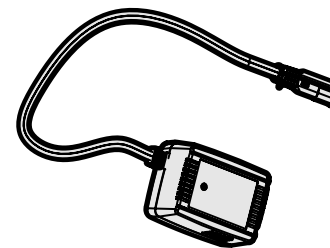
## SPECIFICATIONS

Input	120V AC, 60 Hz, 0.25A
Output	12V DC, 0.75A
Battery Capacity	5 - 125 Ah
Cable Length	12 Feet
Fuse	7.5A Automotive Blade-Type
Battery Specifications	12V Nominal, Lead-Acid, AGM, or Lithium-Ion

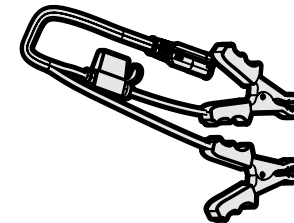
## PACKING LIST

DESCRIPTION	QTY.
AC Adapter	1
Ring Terminal Connector	1
Clip Connector	1

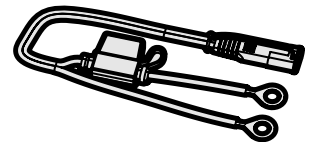
## KNOW YOUR BATTERY MAINTAINER & FLOAT CHARGER



AC Adapter



Clip Connector



Ring Terminal Connector

## NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:



1-847-429-9263 (M-F 8AM-5PM CST)



TECHSUPPORT@WENPRODUCTS.COM

# INSTRUCTION MANUAL

## BATTERY MAINTAINER & FLOAT CHARGER SAFETY WARNINGS

**1. SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for this battery charger.

2. Do not expose the charger to rain or snow.

3. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury.

4. To reduce the risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting charger.

5. Do not use an extension cord with this item.

6. Do not operate the charger with a damaged cord or plug – replace the cord or plug immediately.

8. Do not disassemble the charger; take it to a qualified technician when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

9. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.

### **10. WARNING – RISK OF EXPLOSIVE GASES.**

a. WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF THE UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.

### **11. PERSONAL PRECAUTIONS**

a. Consider having someone close by to come to your aid when you work near a lead-acid battery in case of accidents.

b. Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes. If the battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters the eye, immediately flood the eye with running cold water for at least 10 minutes and get medical attention immediately.

c. Wear complete eye protection and clothing protection. Avoid touching your eyes while working near the battery.

d. NEVER smoke or allow a spark or flame near the battery or engine.

e. Do not drop a metal tool onto the battery. There is a risk of sparking or short-circuiting the battery or other electrical part that may cause explosion.

f. 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 cause a severe burn.

g. Use the charger for charging lead-acid, Absorbed Glass Mat (AGM), or lithium-ion batteries only. It is not intended to supply power to a low voltage electrical system other than in a starter-motor. When charging a maintenance-free battery, always monitor the progress of the charge by viewing the ammeter. Do not over-charge a maintenance-free battery.

h. Do not use the battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury or damage property.

i. NEVER charge a frozen battery.

### **12. PREPARING TO CHARGE**

a. If it is necessary to remove the battery from the vehicle to charge, always remove the grounded terminal from the battery first. Make sure that all accessories in the vehicle are turned OFF, so as not to cause an arc.

b. Be sure that the area around the battery is well ventilated while the battery is being charged.

c. Clean the battery terminals. Be careful to keep corrosion from coming into contact with your eyes.

d. Add distilled water in each cell until the battery acid reaches the level specified by the battery manufacturer. Do not overfill. For a battery without removable cell caps, such as valve regulated lead acid batteries, carefully follow the manufacturer's recharging instructions.

e. Study all of the battery manufacturer's specific warnings while charging and recommended rates of charge.

f. Determine the battery voltage, capacity, and chemistry by referring to the vehicle owner's manual and make sure it matches the output rating of battery charger.

g. Do not place the charger or electrical connections on the ground or floor.

### **13. DC CONNECTION PRECAUTIONS**

a. Connect and disconnect the DC output clips only after disconnecting the quick-connector. Never allow the clips to touch each other.

b. Attach the terminals to the battery.

## BATTERY MAINTAINER & FLOAT CHARGER SAFETY WARNINGS

### **14. FOLLOW THESE STEPS. A SPARK NEAR BATTERY MAY CAUSE BATTERY EXPLOSION. TO REDUCE RISK OF A SPARK NEAR BATTERY:**

a. Position the cables to reduce the risk of damage by the hood, door, or moving engine part.

b. Stay clear of the fan blades, belts, pulleys, and other parts that can cause personal injury.

c. Check the polarity of the battery connectors. The POSITIVE (POS, P, +) battery connector usually has a larger diameter than the NEGATIVE (NEG, N, –) post.

d. Disconnect quick-connector.

e. To permanently attach the ring terminal connector to the battery, bolt the POSITIVE (RED) ring terminal to the POSITIVE (POS, P, +) post of the battery. Bolt the NEGATIVE (BLACK) ring terminal connector to the NEGATIVE (NEG, N, –) post of battery.

f. To temporarily attach the clip connector to the battery, connect the POSITIVE (RED) clip connector to the POSITIVE (POS, P, +) post of battery. Connect the NEGATIVE (BLACK) clip connector to the NEGATIVE (NEG, N, –) post of battery. Do not connect the clip connector to the carburetor, fuel lines, or sheet-metal body parts. Do not leave the clip connectors attached indefinitely.

g. When disconnecting the charger, disconnect and cap the Quick-Connector, and then remove the clip connector from the battery terminal.

h. See the operating instructions for the length of charge information.

15. Do not turn on the equipment that the battery is connected to while charging.

16. Wear ANSI-approved, splash-resistant, safety goggles and heavy-duty rubber work gloves whenever connecting, disconnecting, or working near the battery. Battery acid can cause permanent blindness.

17. This product is not a toy. Keep it out of the reach of children.

18. Disconnect and cap the quick-connector before connecting its cables to a battery, or performing any inspection, maintenance, or cleaning procedures.

19. Do not attempt to charge non-rechargeable, damaged, or defective batteries.

20. Do not charge more than one battery at one time.

21. Remove the charger AC Adapter from the electrical outlet, unplug and cap the quick-connector, and disconnect the battery clamps (if used) when finished.

22. Have your charger serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the charger is maintained.

23. Do not use the charger while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the charger may result in serious personal injury.

24. Do not leave the charger or battery unchecked for extended periods of time to reduce risk.

25. Before moving the charger, disconnect the power supply and battery, then allow the charger to cool.

26. Use as intended only.

27. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:

- Avoid operating alone.
- Properly maintain and inspect to avoid electrical shock.
- Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.

**28. WARNING!** The cord of this product contains lead and/or di (2-ethylhexyl) phthalate (DEHP), chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)

29. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

30. Inspect before every use; do not use if parts are loose or damaged.

31. Use with 12 volt batteries only.