

# User Manual

## The iCharge 85

ACT - Maintainer





Batteries and radios not included

1. Part #ICHARGE85 ..... Charger
2. Part # AT9972B ..... Power Adapter

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This manual contains important safety and operating instructions for your purchase. Prior to using, read all instructions and cautionary markings on the unit, the adapter as well as the battery that will be used on the unit.

The products covered in this Operating Manual each have distinct features and capabilities unique to the particular product. Carefully read this manual prior to operating your new iCHARGE™ unit

**! CAUTION: To reduce the risk of injury, insert ONLY rechargeable-type batteries. Other types of batteries may burst, causing personal injury and damage.**

## Available for the following batteries or radios:

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**Ni-Cd, Ni-MH, Li-Ion, Li-Poly, IS/FM**

**Drop-in IMPRES™ radio with IMPRES battery**

**Drop-in IMPRES™ radio with NON IMPRES™ battery**

**Drop-in IMPRES™ battery alone**

**iGAUGE**

## ■ INSTALLING BATTERY ADAPTER

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Each unit is designed for use with interchangeable battery adapters. Identify the correct adapter cup for your radio battery as well as the battery chemistry type. Ni-Cd and Ni-MH batteries can be accommodated on the same battery adapter cup and Li-Ion and Li-Poly can be accommodated on the same adapter cup.

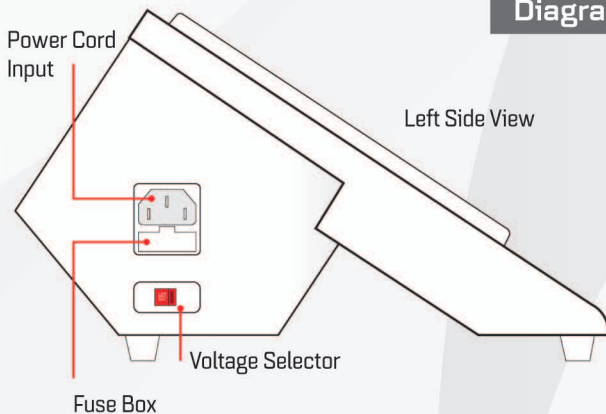
**! WARNING: The use of a battery type not specified and the use of a battery chemistry on an adapter cup not specified for that particular battery chemistry could result in personal injury and damage.**

1. Align the connector of the adapter cup with one of the connectors on the unit and press the adapter cup down gently. **(Diagram 1)**
2. Fasten the adapter cup securely in place using the mounting screws provided.

# Diagram 1



# Diagram 2



## ■ CONNECTING POWER

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1. Verify that the 115V/220V switch on the side of the unit is set to the desired correct voltage.

### **! CAUTION**

- **Always plug the power cable supplied into the unit BEFORE you plug it into a standard power outlet**
- **Always remove the power wall plug from the outlet BEFORE you unplug it from the unit.**
- **Do not operate the unit in temperatures exceeding 45° C (113°F)**
- **Do not operate if unit has been dropped or damaged, or if the cord has been damaged.**
- **Do not disassemble or attempt to repair or modify the unit. This action will automatically void your warranty and may be dangerous.**

2. Place the iCHARGE™ unit on a clean, flat, dry surface for desk-top use or on a clean dry vertical surface for wall mounting.

**! NOTE: These units are suitable for indoor use ONLY.**

## ■ GENERAL OPERATION

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The iCHARGE™ 85 ACT-Maintainor is designed as a stand alone conditioning charger and to keep your reserve batteries fully charged and ready for use.

1. Remove the battery from the radio and confirm that the battery chemistry of the battery matches the battery chemistry specified and labeled on the adapter.

2. Place the battery onto the battery adapter cup as you would onto the radio, matching the inside battery contacts (the ones that would make contact with the radio) with the contacts of the adapter cup.

3. If you are using a Motorola® IMPRES™ radio, a specially designed "drop-in" adapter cup can be used to condition and charge the battery through the outer battery contacts without having to remove the battery from the radio. Ask your ACT sales representative for details.

**! NOTE: If the battery on the IMPRES™ radio is not an IMPRES™ battery, the unit will charge but not recharge the battery.**

4. Once the battery is inserted into the adapter cup the Amber CHARGE LED will light indicating that the battery is being charged.

5. When the battery is fully charged, the Green READY LED will light.

6. If the Red FAULT LED lights, refer to Troubleshooting further on in this manual.

7. A Fast Flashing Amber LED indicates that a Hot or COLD battery is detected. The iCHARGE™ unit will charge the battery when the battery reaches a safe temperature

8. The ACT-Maintainor will automatically discharge and recharge each battery left on the unit every 14 days. During the discharge process, the Amber RECONDITION LED will light. Once it is discharged, the Amber CHARGE LED



will light solid indicating that the battery is being charged.

9. When the battery is fully charged, the Green READY LED will light.

## **TROUBLESHOOTING**

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1. No lights when battery inserted into adapter

- Make sure that the power cable is correctly seated into unit and into AC wall outlet
- Ensure that the adapter is correctly inserted.
- Check battery voltage to determine if battery is still useful.
- Check that the fuse is intact. To check the fuse, open the fuse cover located under the power receptacle. Replace with 3A fuse ONLY

2. Unit displays constant or blinking Fault light

- Remove battery to check for visible damage of interference with the contacts.
- Ensure that the adapter is seated correctly
- Verify the battery type and/or chemistry for compatibility
- Remove and replace battery to ensure proper connection

## **SPECIFICATIONS**

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UL and CE approved

Input 115V/220 VAC 60 Hz

Max. Charge current: 700 mA – 1.5A

Max. depolarization current: 800 mA

Operating temperature: 0° – 45° C

Dimensions & Weight: 18" x 9" x 6.5" (12 Lbs)



## WARRANTY

Your iCHARGE product has a one-year limited warranty from date of purchase against defects in material and workmanship. Under this warranty, you may return a faulty product to ACT and ACT will either repair or replace the faulty product free of charge. To return a faulty product for repair or replacement, please call ACT at 1-800-606-6452 in the USA or + 770-263-6337 out of the USA to obtain a Return Material Authorization number. This warranty covers only defects in material or workmanship in normal use and not damage from negligent handling, misuse, charging of batteries other than those the iCHARGE was specified and designed to charge, or lack of proper care.

**Important:** Opening of the charger will void this warranty. This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

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