

# User Manual

AdvanceCase™ Charger



**ADVANCE**TEC  
INDUSTRIES INC

[www.advancetec.com](http://www.advancetec.com)



## ■ TROUBLESHOOTING

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### **1. No LEDs light when battery is inserted into the battery adapter.**

- Ensure that the power cable is correctly installed as described above.
- Ensure that the connector at the end of the power cable is securely connected to the charger.
- Ensure that the battery adapter is correctly inserted on the charger.
- Ensure that the battery is securely placed onto the battery adapter.
- Check the battery voltage to determine if battery is still useful.

### **2. Unit display constant or blinking fault light.**

- Remove the battery to check for visible damage or interfere with the contacts.
- Verify the battery type and/or chemistry for compatibility.
- Remove and replace the battery to ensure proper connection.

## ■ SPECIFICATIONS

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**Input 12 – 24VDC**

**Max. Charge current: 700mA – 1.5A per bay**

**Max. depolarization current: 800mA per bay**

**Operating temperature: 0° – 40° C**

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



## ■ LIMITED WARRANTY

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**AdvanceTec Industries, Inc. ("AdvanceTec")** warrants to the end user that the product manufactured by AdvanceTec (the "Product") is new and free from defects in material and workmanship and will perform as designed for a period of one (1) year from the date on which the Product is shipped by AdvanceTec. If any Product fails to meet the performance set forth above, during the warranty period, AdvanceTec will repair or replace the defective Product, directly or through an Authorized Dealer, within 30 days of receipt of same at the AdvanceTec factory. Any repaired or replaced Product will be warranted for the remainder of the original warranty period.

No Product will be accepted for repair without a Return Material Authorization ("RMA") which will be issued by AdvanceTec. A written RMA will be faxed or mailed to the customer and a copy of the RMA MUST be returned with the Product.

The customer will pay all shipping and handling charges for returning defective Product to the factory. AdvanceTec will pay its return shipping charges to the customer if the product is covered under the warranty, and will ship it via UPS Ground service. If the Product is not covered by the warranty, a charge to diagnose the defect, the cost of repair and the return shipping cost will be payable by the customer. Any defects caused by modification, alteration, repair or service by anyone other than AdvanceTec and any physical abuse or misuse of the Product will void this warranty.



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Batteries not included

### **AdvanceCase™ Charger consists of:**

- |                        |             |
|------------------------|-------------|
| 1. Part #AT7006A ..... | 6 Bay Case  |
| Part # AT7012A .....   | 12 Bay Case |
| 2. Part #AT9979A ..... | Power Cable |



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## ■ IMPORTANT INFORMATION

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The **AdvanceTec AdvanceCase™ Charger** is a 12 - 24VDC powered MIL Spec, versatile 6 or 12 bay battery reconditioning/charger in a waterproof, dustproof and crushproof carrying case.



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

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



Diagram 1



Side Latches

Front Latches

## ■ CONNECTING BATTERY ADAPTER

Lay the Case Charger onto a flat surface and **unlatch the 2 latches on the front of the case on either side of the handle and the latches on either side of the case** and lift open the case lid.

Each unit is designed with interchangeable battery adapters. Identify the correct battery adapter for your radio battery as well as the battery chemistry type.



**!NOTE: Ni-Cd and Ni-MH batteries can be accommodated on the same battery adapter and Li-Ion and Li-Poly can be accommodated on the same adapter.**





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

1. Align the connector of the battery adapter with one of the connectors on the unit and press the adapter cup down gently until it is flush with the unit.
2. Fasten the battery adapter securely in place using the mounting screws supplied.

## ■ ATTACHING AND INSTALLING THE DC POWER CABLE

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1. Remove the protective **RED** cap from the connector **[Diagram 2]** on the case charger.
2. Attach the connector at the end of the **DC power cable** to the connector on the case charger. **[Diagram 2]**



**!CAUTION:** The AdvanceCase™ should be used with a negative ground electrical system only. Reverse polarity (positive ground) will trigger protection circuits which cause the cable fuse to open. Check the ground polarity before you begin the connection to prevent wasted time and effort. 12V DC or 24V DC automotive systems are directly supported.



## Diagram 2



## Diagram 3



**!CAUTION:**

- Do not operate the unit in temperatures exceeding 40° C (104° 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 be dangerous.

## ■ OPERATING

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1. Remove the battery from the radion and confirm that the battery chemistry of the battery matches the battery chemistry specified on the adapter.
2. Place the battery onto the battery adapter matching the inside battery contacts (the ones that would make contact with the radio) with the contacts of the battery adapter.
3. If you are using Motorola® IMPRES™ radio, the battery can be conditioned and charged through the outer battery contacts without removing the battery from the radio using a specially designed adapter cup. Ask your AdvanceTec-sales representative for details.



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



4. Once the battery is inserted (or the battery and radio in the case of the IMPRES™ radio and battery) 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 defective. The iCHARGE™ unit will charge the battery when the battery reaches a safe temperature.



**!WARNING:**

**Do not charge batteries with the lid closed**