



In-Vehicle Conditioning Charger Model # i15/35 V/C - Operating Instructions

Congratulations on your purchase of the ***Advanced Charger Technology*** In-Vehicle Conditioning Charger.

! Warning: Use only Ni-Cd or NiMH 7.2v Batteries.

The use of this unit with a battery other than the specified Ni-Cd or NiMH batteries may result in damage and/or fire. This unit is NOT to be used with Lead Acid, Carbon, Zinc, Alkaline, Mercury, Silver, Lithium, Lithium Ion or any other battery other than the specified NiCd or NiMH batteries.

Save These Instructions. This manual contains important safety and operating instructions for your battery charger

The in-vehicle conditioning charger includes:

- a) Charger base with battery adaptor
- b) Mounting bracket plate with 2 - Mounting bracket wings
- c) 4 - 3/4" self-tapping screws
- d) DC cord with in-line fuse (or optional Cigarette Lighter Cable)
- e) Rubber strap

Mounting bracket set up

1. Attach the Mounting Bracket Plate to the vehicle in the desired position using the 4 self-tapping screws supplied.

Note: If a mounting post, spacer, or other mounting device is to be used

between the Mounting Bracket Plate and the vehicle, it will be necessary to source such a post or mounting device prior to commencing the installation. Various types and sizes of Mounting posts and mounting devices are available from your local LMR, two-way radio, or cellular distributor. Choose one that best suits your needs.

2. Once the Mounting Bracket Plate has been attached to the vehicle, loosen the four screws and remove the two Mounting Bracket Wings. Position the Charger on the Mounting Bracket Plate by aligning the holes in the bottom of the charger with the post on the Mounting Bracket Plate.

3. Reinstall the two Mounting Bracket Wings making sure their tabs are inserted into the slots on each side of the charger. Reinstall the four screws that secure the Mounting Bracket Wings.

Charger Wiring

- a) Place the metal barrel plug of the DC cord supplied into the receptacle on the conditioning charger.
- b) Route the cord out of harms way, to the vehicle's ignition, battery, or appropriate 12v source, whichever is preferred.
- c) Cut the negative (-) lead of the DC cord to the desired length and attach it to the negative (-) side of the ignition/battery/source.
- d) Cut in half the red wire loop attached to the fuse housing supplied
- e) Cut the positive (+) lead of the DC cord lead to the desired length and connect (crimp) it to the one end of the wire to the fuse housing
- f) Connect the other end of the wire from the fuse housing to the positive (+) side of the ignition/battery/source.

Secure all wiring. The fuse housing can be secured in place by using a screw, through the hole in the fuse's plastic housing.

Note An alternative Cigarette Lighter Plug DC cord is available as an optional extra from your ACT supplier. If you opt for this Cigarette Lighter DC cord, plug the metal barrel plug of the DC cord supplied into the receptacle on the conditioning charger and the Cigarette Lighter plug on the other end of the DC cord into the Vehicle's Cigarette lighter receptacle.

At this point the red LED indicator will light and blink to indicate that the charge is in the "Stand By" position. Note that if you have wired the charger

to the ignition, it may be necessary to turn the ignition switch to the on position.

If the battery adapter is not already installed, install it on the charger using the two mounting screws supplied.

Operating Instructions

Place a battery on the unit and the green LED indicator will light, showing that the battery is being charged and conditioned. If the green LED indicator does not light and the blinking red LED remains on refer to "**Trouble Shooting**" further on in these instructions.

Once the battery is in place and charging as described above, place one end of the rubber strap supplied, over the round tab on one side of the mounting bracket plate. Stretch the rubber strap over the battery and attach it to the round tab on the other side of the mounting bracket plate, so as to hold the battery firmly in place

If the battery is removed from the unit before the full charging and reconditioning cycle has been completed, the blinking red LED indicator will turn on. To recommence the charging and reconditioning cycles, replace the battery on the unit. It is quite safe to remove the battery from the unit prior to completing the full charging cycle.

When the battery is fully charged and reconditioned, the green LED indicator will blink showing that the unit has switched to a maintenance mode. It is quite safe for both the battery and the unit to leave the battery on the unit with the green LED indicator blinking. While in this maintenance mode the unit will keep the battery at 100% peak condition without ever overcharging the battery

During the reconditioning and charging cycle the unit and the battery may become warm. This is quite normal and is not harmful to either the battery or the radio.

Trouble Shooting

1. If the blinking red LED indicator does not light after the DC adapter is

plugged into the cigarette lighter receptacle or attached to the vehicle battery or ignition, check that:

- (a) The plug into the charger is properly seated, and
 - (b) The cigarette lighter plug is properly seated in the cigarette lighter adapter, and,
 - (c) The fuse in the cigarette lighter plug or the fuse in the fuse holder is intact and has not blown. To check the fuse in the cigarette lighter adapter unscrew the end tip of the cigarette lighter plug. Replace the fuse only with a two (2) Amp fuse.
2. If the red LED indicator lights with the battery in place, remove the battery and replace it, ensuring that the battery is properly seated.



Warning

1. Do not use a DC adapter other than those supplied with the unit or obtained from your ACT authorized supplier.
2. Do not short circuit the output on any of the units.
3. The unit is a highly sophisticated electronic device, which may be damaged if handled roughly or dropped.

Specifications

UL and e11 approved

Input: 12VDC - 2 Amp

Operating Temperature 10C to 40C

Limited Warranty

Advanced Charger Technology (ACT) warrants this product against defects in material or workmanship for (1) one year from date of purchase. If this product is determined to be defective during the warranty period, ACT will repair or replace (at its option) the product at no charge to you. ACT will not be liable for any incidental or consequential damages for breach of any express or implied warranty on this product. To obtain warranty service, please contact ACT at 1-770-263-6337 in the USA or ACT UK elsewhere at 44-0-1433-639343