

MODEL CV-RG *DC-DC CONVERTER*

INTRODUCTION

The Phonic DC to DC converter will allow users to connect a portable battery source to their RoadGear, for use at any location without a standard AC power source. The DC to DC converter changes plus 12 volt DC currents, from, say, a battery pack, into the plus / minus 48 volt DC current required by the RoadGear Integrated Mobile Audio System. It is recommended that users take the time to look carefully through this instruction leaflet as to gain maximum understanding of the operation and safety requirements of the DC to DC converter, then store the instruction leaflet in a place that is easy to find for future reference.

SAFETY INSTRUCTIONS

Please read the following warnings carefully and keep in mind while operating the Phonic DC to DC converter.

- Take extreme caution when moving / operating / connecting battery packs, as a large battery is capable of short, high current output, able to cause physical harm to persons.
- Operate the DC to DC converter in a somewhat open area, allowing for adequate ventilation.
- When connecting or operating the DC to DC converter, do not allow loose jewelry, rings, or other conductive metals come into contact with battery terminals. Doing so may result in severe shock. Such things should be removed before attempting to operate the device.
- Do not expose this unit to moisture or rain, as to prevent fire or electrical shock.
- Sparks and open flames should not be in close proximity of a battery, as it may result in an explosion.
- As some batteries contain corrosive acids, try using sealed batteries as to avoid spillage of such materials.
- Do not attempt to disassemble or refit this product on yourself. Servicing should be undertaken by experienced and authorized Phonic technicians only.
- After transportation of electronic equipment in cold weather, condensation may form in or around internal circuits of such equipment, resulting in short circuits, damage to equipment and greatly increasing the risk of electrical shock. It is advisable to let all products reach ambient temperature before attempting to use them.

CLEANING INSTRUCTIONS

Ensuring it is disconnected, use a slightly damp cloth to wipe the surface of the DC to DC converter. Under no circumstances should you allow water into the unit. Unconnected cables should be wiped occasionally as to avoid built up dust from entering equipment. Foreign matter should not be allowed to enter connections. Ensure that exposure to water and moisture is avoided.

OPERATING INSTRUCTIONS

1. Ensure the on / off switch of your DC to DC connector is set to Off
2. Connect the two alligator clip terminals to the BP-RG battery pack; red clip connected to the positive terminal, black to negative.

NB. If a clip accidentally comes lose while the Battery is in use, ensure you turn the DC to DC converter off before reconnecting to the battery. Not doing so may result in damage being done to both the DC to DC converter and the RoadGear.

3. Insert the adaptor's multi-pin terminal into the DC power input at the back of the RoadGear. Ensure the connector's clip is positioned the right way up to ensure the polarity of the connections is correct.
4. Turn the DC to DC converter's on / off switch on.

NB. When using the DC-to-DC converter, the on / off switch on the converter will act as the RoadGear's on / off button, as the connection of an external power supply bypasses the typical RoadGear AC power input and power switch.

CV-RG SPECIFICATIONS

Input Voltage	DC 12V nominal
Output Voltage:	DC +48/-48V simultaneous
Input Fuse:	40 amp
Output Fuse:	10 amp
Weight:	1.27 kg (2.8 lbs)

