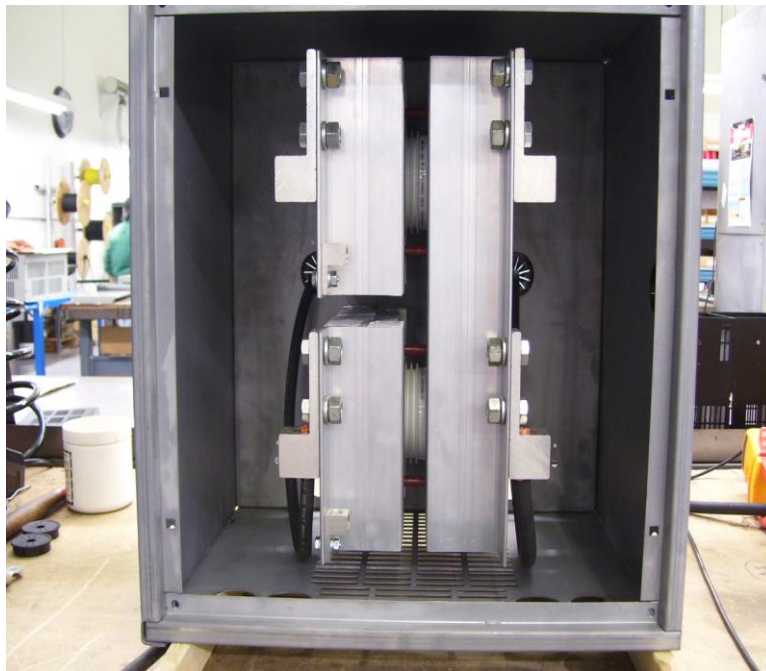




**Hard Wired**  
**Reliability**

# Installation and Operation Manual

## DBC – 1600 Dual Battery Coupler



205B Konrad Cres., Markham, ON, L3R 8T9  
[www.chargers.ca](http://www.chargers.ca)

**"Building Canada's toughest battery chargers  
for over a century."**

# General Information

The DBC-1600 Dual Battery Coupler is ideal for coupling two battery banks to one or two starters in a parallel redundant starting system.

## DBC-1600 Installation Procedure



**WARNING: The following procedures must be followed exactly to avoid injury, fire, or risk of electric shock.**

Inspect your coupler thoroughly prior to installation to ensure that the unit is not damaged and that parts have not loosened during shipping. Inspect the product nameplate and cross reference the information with the packing slip and your order to ensure you have received the correct coupler.



Mount the coupler in a dry location that is free from vibration and offers sufficient ventilation. Slots have been added to the cabinet for the purpose of ventilation. To ensure reliable operation of the coupler, and to prevent it from overheating, these openings must not be blocked or covered.

The coupler should never be placed near or above a source of heat, nor should it be placed in a built-in installation unless proper ventilation has been provided. Do not install electronic or electrical equipment, including the coupler, in a battery compartment.



All wiring must be completed in accordance with ALL applicable federal and local electrical codes to ensure a safe installation. Only qualified personnel should attempt to install this product.

### DC SET-UP

Connect the Dual Battery Coupler as per the connection diagram supplied. Multiple Heyco cable ingress glands are provided in the rear, sides, and bottom of the Dual Battery Coupler in order to accommodate any possible cable configuration. Simply push the cable through the desired cable gland.

### TIGHTENING TORQUE VALUES

**AWG**                      **TORQUE**  
(INCH POUNDS)

8	75
6	110
4	110
2	150
1/0	180
2/0	180
3/0	250
4/0	250
250	325
350	325

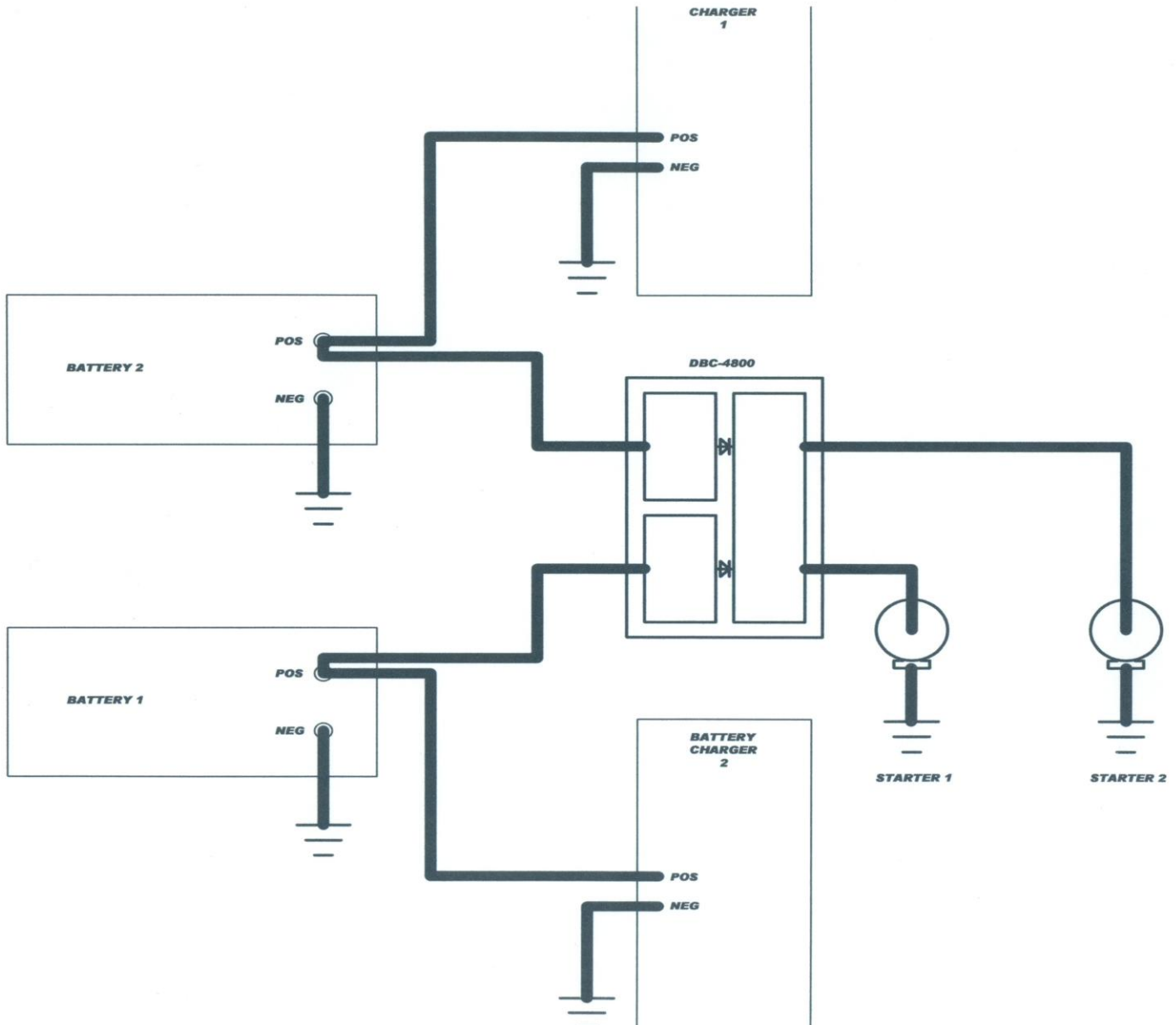


**Warning:** The last connection to be made should be the connection between the negative battery and ground. This will ensure that that, when wiring the coupler, the heat sinks are not live with respect to ground. Failure to follow this procedure will cause a battery short to ground in the event that the tool used to tighten the connectors accidentally contacts the grounded cabinet. Only qualified installers should attempt this procedure.

## Maintenance

The coupler requires little routine maintenance other than occasional cleaning to remove dust and debris from around the unit. Disconnect DC power before opening the access panel. Only qualified maintenance personnel should open the cabinet to clean the inside of the coupler.

## CONNECTION DIAGRAM



# Ten Year DBC Type Coupler Limited Warranty

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Vulcan Electric manufactures its hardware products from parts and components that are new in accordance with industry-standard practices. **Vulcan Electric warrants this DBC Coupler to be free from defects in workmanship or materials for ten years from the date of purchase.** During this period, Vulcan Electric will, at its option, repair or replace the defective product free of charge. This warranty will be considered VOID if the unit has suffered any physical damage or alteration, either internally or externally, and does not cover damage arising from improper use, or from use in an unsuitable environment. This warranty will not apply where the product has been misused, neglected, improperly installed, or repaired by anyone other than Vulcan Electric or an Authorized Service Depot. In order to qualify for the warranty, the product must not be disassembled or modified without prior authorization by Vulcan Electric.

Repair or Replacement are your sole remedies and Vulcan Electric shall not be liable for damages, whether direct, incidental, special, or consequential, even though caused by negligence or fault.

Vulcan Electric owns all parts removed from repaired products. Vulcan Electric uses new parts made by various manufacturers in performing warranty repairs and building replacement products. If Vulcan Electric repairs or replaces a product, its warranty term is not extended.

User is responsible for determining whether this Vulcan Electric product is fit for a particular purpose and suitable for user's method of application.

Vulcan Electric shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

**THIS IS VULCAN ELECTRIC'S ONLY WARRANTY, AND THE COMPANY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

#### **To Obtain Warranty Service:**

If your Vulcan Electric Coupler requires service, please return it to the place of purchase. If you are unable to contact your merchant, or the merchant is unable to provide service, contact:

#### **Vulcan Electric Inc.**

**205B Konrad Cres., Markham, Ontario, L3R 8T9**

**Telephone: (905) 513-1550, Fax: (905) 513-1557**

**Website [www.chargers.ca](http://www.chargers.ca)**

You must obtain a Return Authorized Number from Vulcan Electric before returning a Vulcan Electric Coupler directly to Vulcan. Do not return a Vulcan Electric Coupler without first obtaining a Return Authorization Number. When you contact Vulcan Electric to obtain service, be prepared to supply the Serial number of your Vulcan Electric Coupler. The serial number is located on the side of the unit. The following information needs to be supplied:

- A description of the problem
- Serial number of the unit (serial number is located on the side of the unit) name and address of the dealer, where you purchased the unit, and date of purchase.
- Package the unit safely, preferably using the original box and packing materials, Include the Return Authorization Number, a return address where the repaired unit can be shipped, a contact name and telephone number, and brief description of the problem.

**SHIP ALL UNITS PREPAID.**