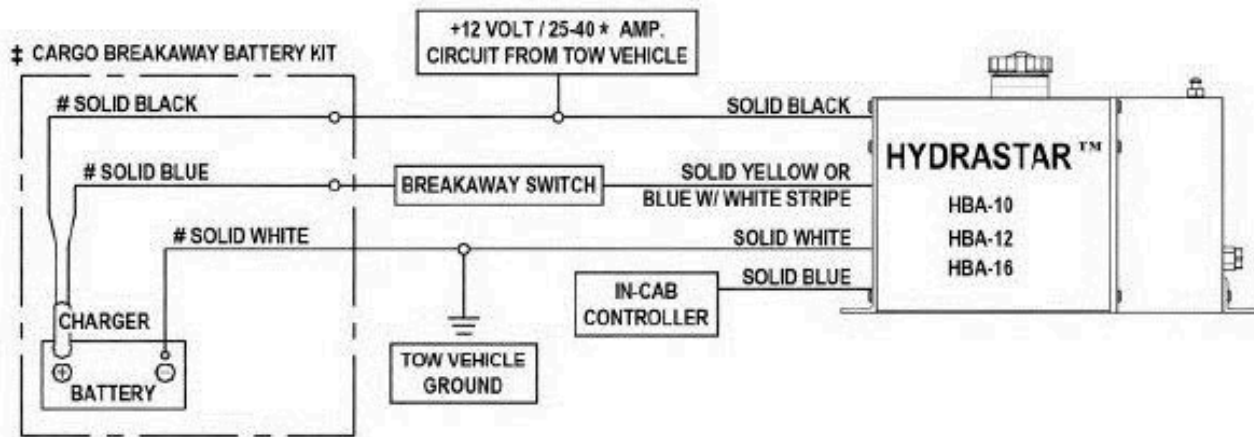


ELECTRICAL SCHEMATIC



*-COLD TEMPERATURE (BELOW 0° F) APPLICATIONS REQUIRE 40 AMP.

- THIS ELECTRICAL SCHEMATIC REPRESENTS THE USE OF A CARLISLE BREAKAWAY BATTERY KIT. PLEASE NOTE THAT IF YOU ARE USING A DIFFERENT BREAKAWAY BATTERY KIT, THERE MAY BE A DIFFERENT NUMBER OF WIRES AND THE CHARGING +12VOLT, BREAKAWAY, AND GROUND CIRCUITS MAY BE IDENTIFIED BY COLORS OTHER THAN THOSE DEPICTED IN THIS SCHEMATIC. PLEASE CONSULT THE MANUFACTURER'S INSTRUCTIONS TO IDENTIFY THE AFOREMENTIONED CIRCUITS.

#-CIRCUITS FOR THE CARLISLE BREAKAWAY BATTERY KITS WILL BE IDENTIFIED AS FOLLOWS:

CHARGING +12 VOLT CIRCUIT - BLACK

BREAKAWAY CIRCUIT - YELLOW

GROUND CIRCUIT - WHITE

IN-CAB CONTROLLER-BLUE

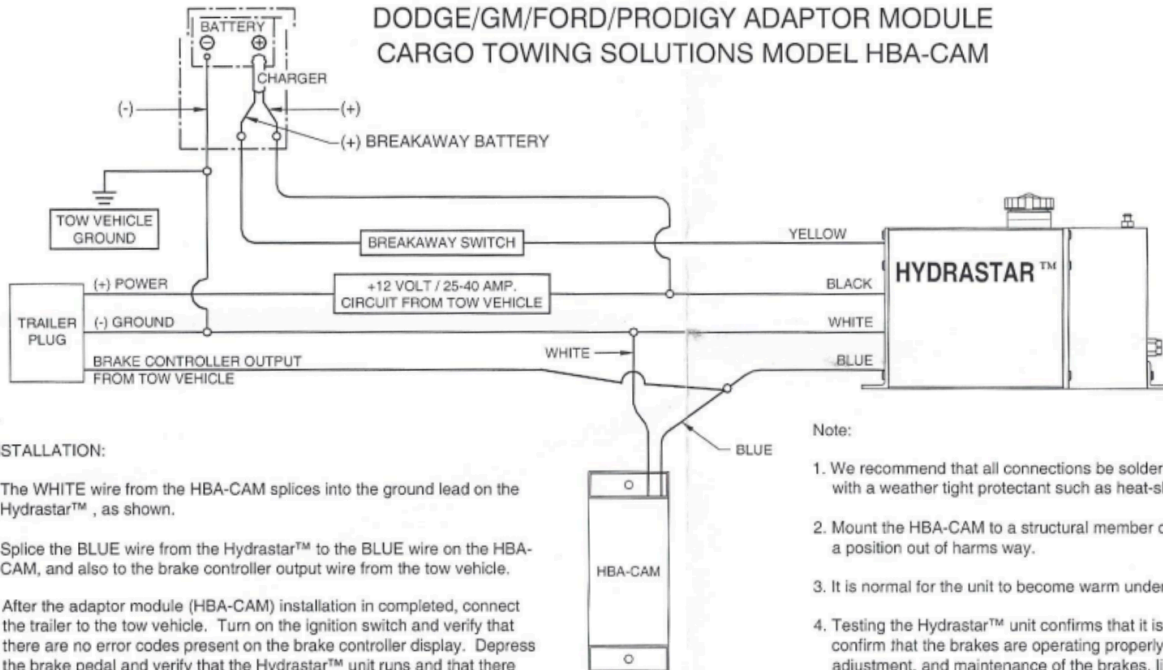
Cargo Towing Solutions

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HBA-CAM INSTRUCTION SHEET 381-7073

DODGE/GM/FORD/PRODIGY ADAPTOR MODULE
CARGO TOWING SOLUTIONS MODEL HBA-CAM



INSTALLATION:

1. The WHITE wire from the HBA-CAM splices into the ground lead on the Hydrastar™, as shown.
2. Splice the BLUE wire from the Hydrastar™ to the BLUE wire on the HBA-CAM, and also to the brake controller output wire from the tow vehicle.
3. After the adaptor module (HBA-CAM) installation is completed, connect the trailer to the tow vehicle. Turn on the ignition switch and verify that there are no error codes present on the brake controller display. Depress the brake pedal and verify that the Hydrastar™ unit runs and that there are no error indications on the display of the electronic brake controller. Release the brake pedal and actuate the manual control on the electronic brake controller. Again, verify that the Hydrastar™ unit runs and that there are no error indications on the display of the electronic brake controller.

Note:

1. We recommend that all connections be soldered in place and sealed with a weather tight protectant such as heat-shrink tubing.
2. Mount the HBA-CAM to a structural member on the trailer. Locate in a position out of harms way.
3. It is normal for the unit to become warm under normal operating conditions.
4. Testing the Hydrastar™ unit confirms that it is operating. It does not confirm that the brakes are operating properly. Regular inspection, adjustment, and maintenance of the brakes, lines, hoses, drums, discs, fluid, and other associated components is necessary to ensure proper brake operation.

** Under laboratory testing it was possible to make the Ford Tow Command produce error codes even with the HBA-CAM installed. With the gain set (2) or less, and rapidly cycling the manual braking switch for a minute or more, error codes could be seen. It is important to note that it is highly unlikely that this condition would occur in normal vehicle and brake operation.*

IMPORTANT:

The HBA-CAM 381-7073 is designed to be used only with Carlisle and Cargo Towing Hydrastar™ Actuators.

REV	REVISION HISTORY		DATE	APPROVED
	DESCRIPTION			

