CAN Power Unit

Installation Guide

CAN nodes are powered from an auxiliary power supply through the CAN bus. Smartpack controllers contain an internal power supply to power these nodes. Once the capacity of the power supply is exceeded, a CAN power device is required to power additional CAN nodes. Compact controllers rely on external power for any CAN nodes.

Specifications

Part number: 242100.303.VC

Input voltage is 20-70 VDC (negative output distribution only), 1.5 Amps.

Output power is ±15VDC and 500mA.

Maximum ambient temperature is 60°C.

Dimensions are 6.1″ (W) x 2.8″ (D) x 1.2″ (H).

RJ-45 connections are used for CAN input and output.

There is no CAN addressing required for this device; all signals are pass-through. There is a green LED to indicate power status.

Required Tools

⅛″ flatblade screwdriver, small pliers (or tweezers) to set the jumpers.

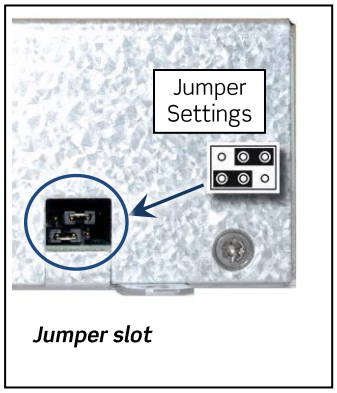
Installation

After unpacking the CAN power device, use the following procedure to extend a negative distribution system:

1. Set jumper(s) as shown in the adjacent figure.

   Note: In final mounting, the unit should be mounted with the jumper slot opening on the side or facing down, to prevent screws or debris falling into the slot.

2. Mount the CAN power device in an accessible [desired] position on your system, using a #1 Phillips screwdriver, and two #4 screws (customer furnished) in the mounting holes on the base of the CAN device.

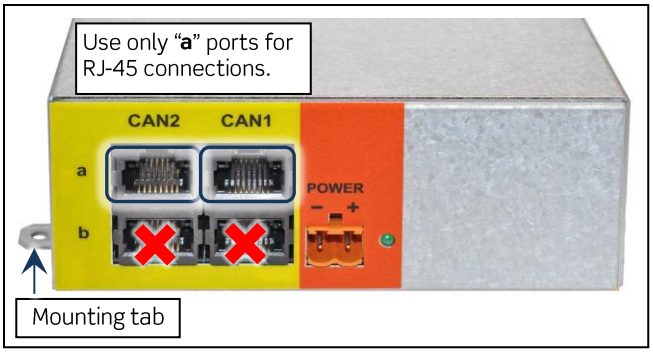


Jumper slot

3. Connect the RJ-45 CAN bus cables to the "**a**" ports of CAN1 and CAN2. Bring the connection from the previous CAN node to the CAN1 port; make the connection from the CAN2 port to the next node.

   Note: The "**b**" ports are not used for this application.

4. Strip wires for power connections ¼ of an inch. Use 20 gauge wire (or larger), maximum 12 gauge.



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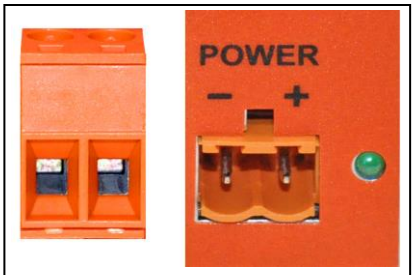
5. Before connecting the power wires (in the following steps), remove the connector block from the unit, to make the connection process easier.
6. Connect the positive bus from the DC power system to the positive (+) terminal. Use a ⅛" flatblade screwdriver and torque to 4 in-lbs.
7. Connect the negative bus from the DC power system to the negative (–) terminal. Use a ⅛" flatblade screwdriver and torque to 4 in-lbs.
8. Insert the DC input connector block back into the DC input connector block port.



Connector block | Connector block port

Once input power is connected, the green LED will activate, indicating the status is ON.

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