

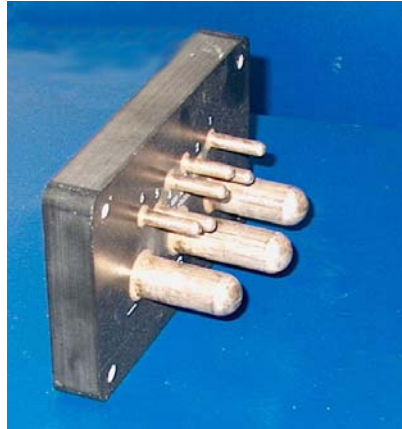


## **Minit-Charger (formerly SuperCharge) GSE Vehicle Kit for 9-Pin BIW/ITT Cannon “B-1” Bomber 400Amp Inlet Configuration**

### Components Required:

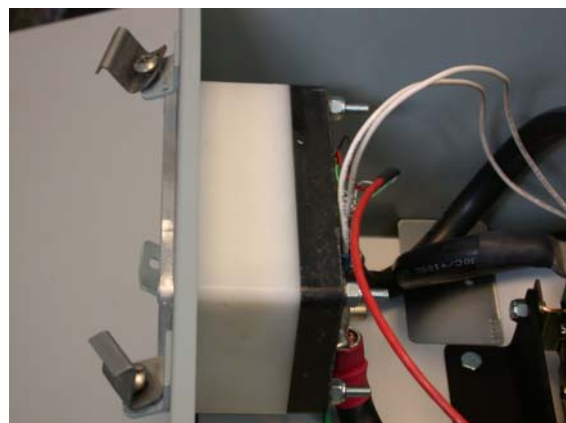
1. BIW 9-Pin, 400Amp Receptacle (ETEC Part No. EV-740); typically an in-stock item

The BIW 9-Pin Receptacle interfaces with the ETEC SuperCharge fast charger and provides the (2) Power Pins rated at 400Amps, (1) Ground Pin, and (6) Communication Pins.



2. BIW 9-Pin Receptacle Shield and Bezel (ETEC Part No. EV-750); typically an in-stock item

The receptacle shield provides a guide for the charge connector when plugged into the vehicle and provides added protection to the pins. This item is optional, but is recommended. Some OEMs provide their own form of shield guide by insetting the receptacle and fabricating the shield guide into the mounting box or plate.





3. ETEC “CANOpen” Battery Identifier II Kit (ETEC Part No. IDENT-0002-0); typically in-stock item

The ETEC Battery Identifier utilizes the standardized communication protocol “CANOpen” to communication to the GSE Minit-Charger (formerly SuperCharge) system. This allows the charger to properly charge different voltage and chemistries from the same charge port. This also includes the Temperature Sensor for proper temperature compensation during charge. This is typically mounted on the battery pack or very close by. The battery identifier comes with the Temperature Sensor and Harnesses required for installation. Detailed instructions on how to install the Battery Identifier II are provided in a separate document.



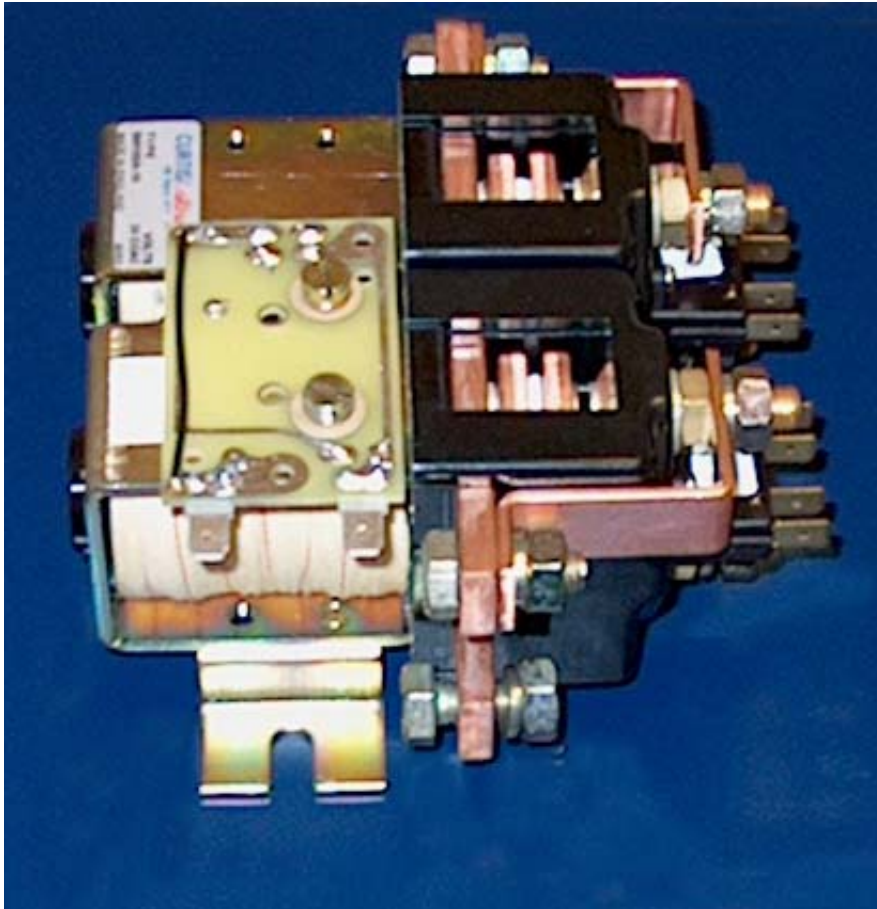
<b>Complete Kit</b>	<b>(Part No. IDEN-0002-0)</b>
<u>Individual Pieces:</u>	
Top – ETEC CAN Identifier II	(Part No. IDEN-0002-1)
Bottom Left – BIW Receptacle Harness	(Part No. REC0002-0)
Bottom Middle – Temperature Sensor	(Part No. Temp-02)
Bottom Right – Battery Harness	(Part No. BAT0002-0)



#### 4. GSE Isolation Contactor

250Amp Contactor ETEC Part No. CONT-0002-2; Small quantities are typically in-stock

The GSE Isolation contactor is an Albright Double Pole/Double Throw (DPDT) Contactor (Rated at 250Amp Peak, 200Amp continuous) with 24VAC rectifier board and Aux contacts. Using this contactor prevents the vehicle operator from “drive-away” condition while plugged into the charger, and it provides a “dead-front” on the vehicle charge inlet so no voltage is present on the power pins while not charging. Other configurations or contactors may be used to accomplish the same thing as required or preferred by the OEM.





## **5. OPTIONAL – ETEC Minit-Charger Interface Box**

**ETEC Part No. MCIB-400**

**Not typically in-stock; Call for delivery schedule**

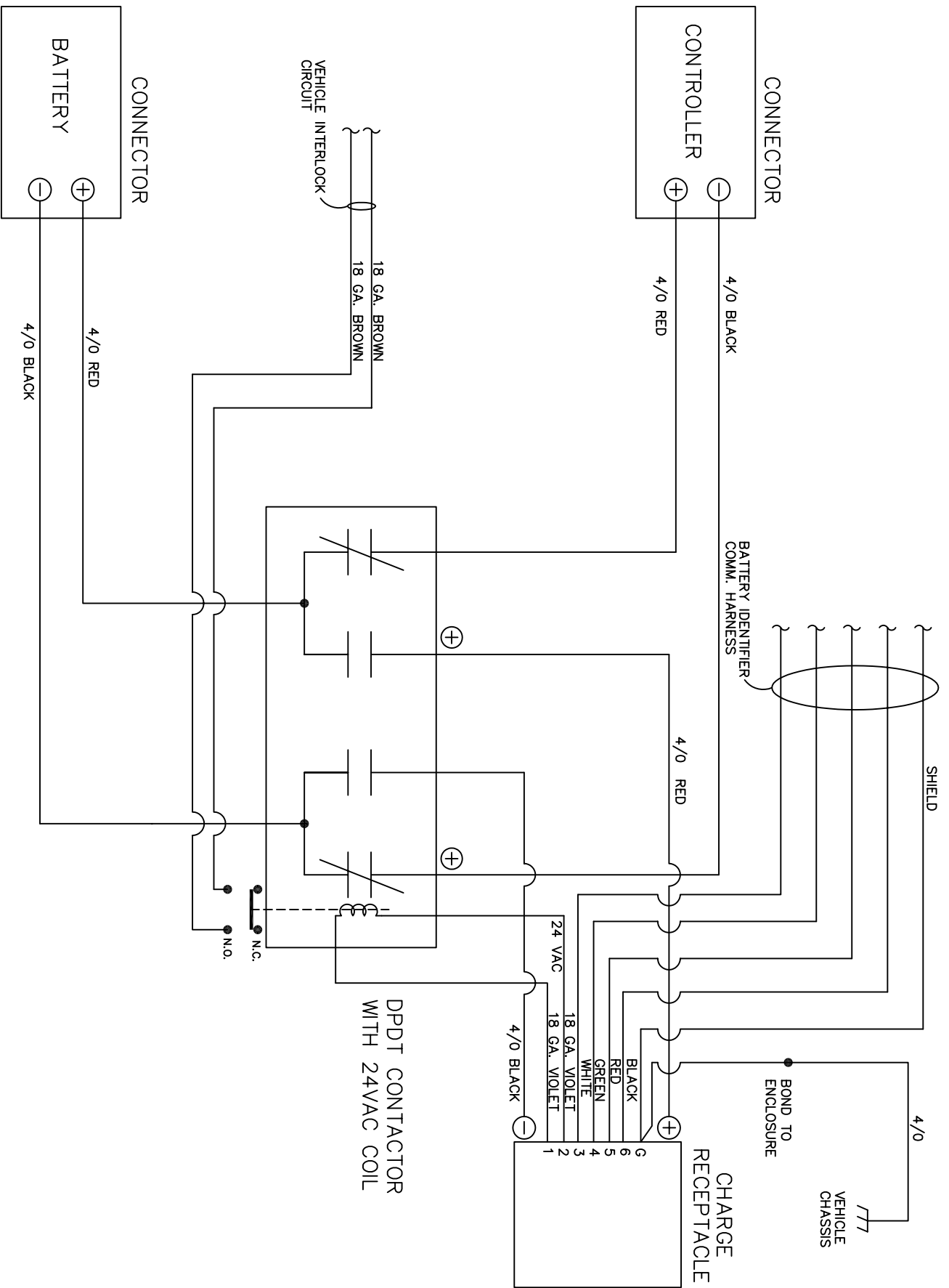
ETEC can provide the interface box already pre-assembled with the BIW 9-Pin receptacle and shield, 250Amp DPDT Contactor and battery identifier II. Since all vehicles are different, it is the airlines responsibility to ensure that there is a place to mount this on the vehicle.



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### **Questions?**

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REVISION	DATE
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ELECTRIC TRANSPORTATION ENGINEERING CORPORATION

**FAST CHARGE VEHICLE INTERFACE**

GENERIC GSE DPDT WITH BATTERY IDENTIFIER



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