



Minit-Charger (formerly SuperCharge) GSE Vehicle Kit for 9-Pin “F-22” Style Configuration

Components Required:

1. F-22 Style 9-Pin Receptacle (ETEC Part for BIW/ITT Cannon Receptacle No. EV-730)

The F-22 Type 9-Pin Receptacle interfaces with the ETEC Minit-Charger (formerly SuperCharge) fast charger and provides the (2) Power Pins, (1) Ground Pin, and (6) Communication Pins.



2. Burton 9-Pin Receptacle Shield (ETEC Part No. BUR-CRS-350)

The receptacle shield provides a guide for the charge connector when plugged into the vehicle and provides added protection to the pins.





3. ETEC “CANOpen” Battery Identifier II Kit

The ETEC Battery Identifier utilizes the standardized GSE communication protocol “CANOpen” to communication between the vehicle battery and the Minit-Charger 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. Detailed instructions on how to install the Battery Identifier II are provided in a separate document.



Entire Kit

(Part No. IDEN-0002-0)

Individual Pieces:

Top – ETEC CAN Battery Identifier II

(Part No. IDEN01-0)

Bottom Left – 9-Pin Receptacle Harness

(Part No. REC0002-0)

Bottom Middle – Temp Sensor with Deutsch Connector

(Part No. TEMP-02)

Bottom Right – Battery Harness

(Part No. BAT0002-0)

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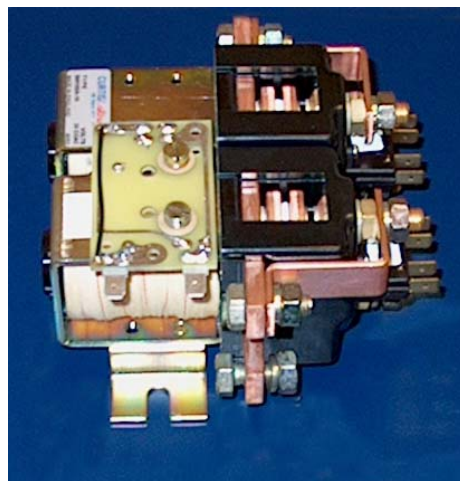
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4. GSE Isolation Contactor (ETEC Part No. CONT-0002-2)

Note: When ordered directly through an OEM (i.e. TUG, Charlotte), configuration and part type may vary. Example, Tug typically installs a Single-Pole contactor in the TUG Controller Compartment.

The GSE Isolation contactor is a 250Amp (Peak) Double Pole/Double Throw (DPDT) Contactor with 24VAC rectifier board and Aux contacts. Using this contactor prevents the vehicle operator to “drive-away” 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.



OPTION – ETEC Interface Box (ETEC Part No. MCIB-250)

ETEC can provide the interface box already pre-assembled with an F-22 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?

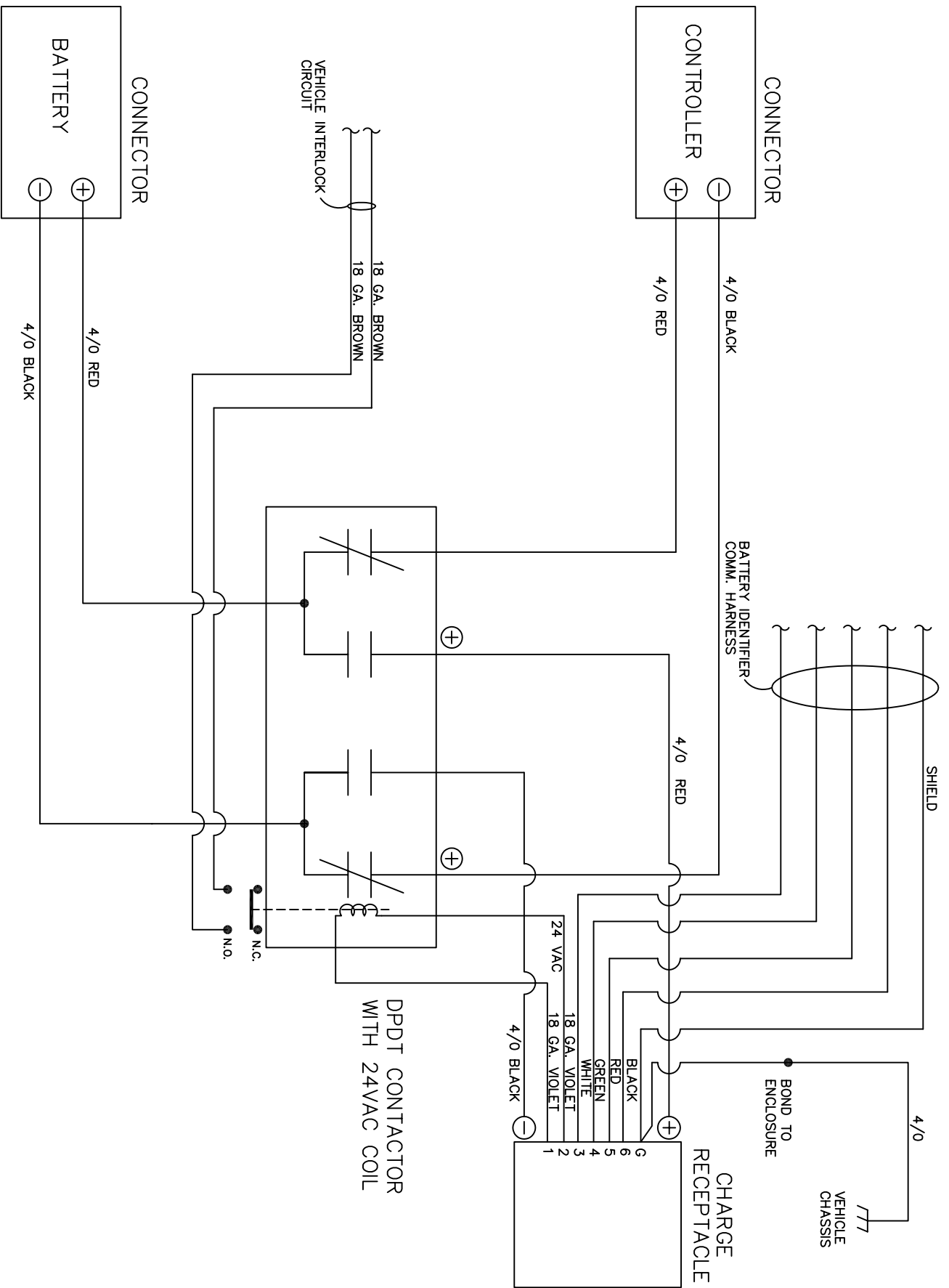
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ELECTRIC TRANSPORTATION ENGINEERING CORPORATION

FAST CHARGE VEHICLE INTERFACE
GENERIC GSE DPDT WITH BATTERY IDENTIFIER



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