31539/31538 Voltage Converter:

Caution: Wear Appropriate Eye Protection!

The wiring connections are as follows:

Green Wire is 12 Volts Positive (out)
Red Wire is 36/48 Volts Positive (in)
Yellow Wire is 36/48 Volts Activation From Accessory Side Of Key Switch (or add a in-line toggle switch)
Black Wire is 36/48 Volts Negative (in)
Black Wire is also Common To Negative For 12 Volt Accessories

Tech Tip: Voltage Reduction Is Done Through The Green 12 Volt Positive Wire

DO NOT EXCEED CONVERTER AMPERAGE AND VOLTAGE RATING!

DO NOT USE A FRAME GROUND!
CONFIRM YOU HAVE A 36/48 VOLT POSITIVE CIRCUIT THROUGH KEY SWITCH!
CONFIRM BATTERY PACK MAIN POSITIVE AND NEGATIVE POTENTIALS!
CONFIRM THE CAR ELECTRICAL SYSTEM IS NOT GROUNDED TO THE FRAME!

For older cars using a negative through key switch you must use a relay for converter activation. Consult technical services for this application. For radio memory you must either leave the key switch in the on position or hardwire the yellow and red wire to 36/48 volt positive. Doing this you will have a constant drain on the battery pack and long extended period of "setting" will help drain the battery pack. It is advised for long storage to disconnect the converter.

Make sure any supplied fuses are in place and in working order. Make sure all accessory fuses are in working order. Make sure all fuses are set at correct system rating.

Make sure all wiring is free from moving parts, sharp objects or extreme hot area's! Tie up any loose wiring and heat shrink or tape any exposed wiring.

The converter must be mounted on solid metal, aluminum for heat dissipation. The converter will be very hot during usage, keep wiring from touching the converter and or do not touch it!

Anytime a battery pack is disconnected manufacturers instructions must be followed. Always make sure if the car has a run/tow switch the switch is placed in the tow position before disconnecting anything. Torque battery cable nuts to 80 to 100 inch pounds. Spray coat connections with anti corrosion spray. Tech Note: loose connection create heat and arcing make sure all wiring connections are clean and tight.

Warranty will not cover loose connections or grounded wiring systems. Warranty will not cover wrong mounting procedures or incorrect connections.

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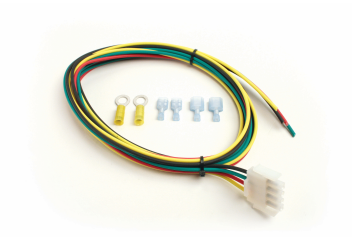
Voltage Converter



31523 Harness

36/48 Volt Battery Pack

Tech Tip: 12 Volt Negative Is Shared With Main Battery Pack Negative.

36/48 Volt Positive

36/48 Volt Negative

Red

Black

Key Switch

Fuse

Yellow

Activation Wire 36/48 Volts Positive

Converter

Note: Green Wire Is 12 Volt Positive.

Red

Yellow

Green

Black

Black

Light Switch

Red

Fuse

Red

Headlight System~Radio~Taillights~12 Volt Accessories

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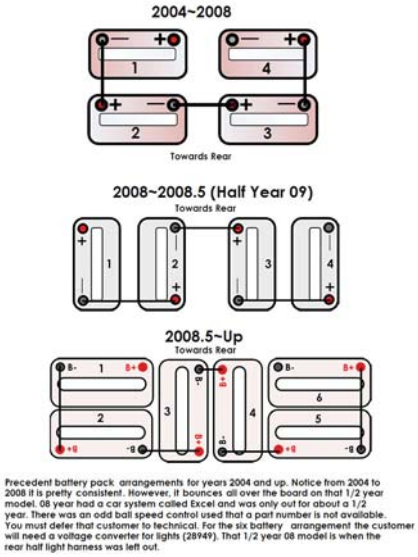
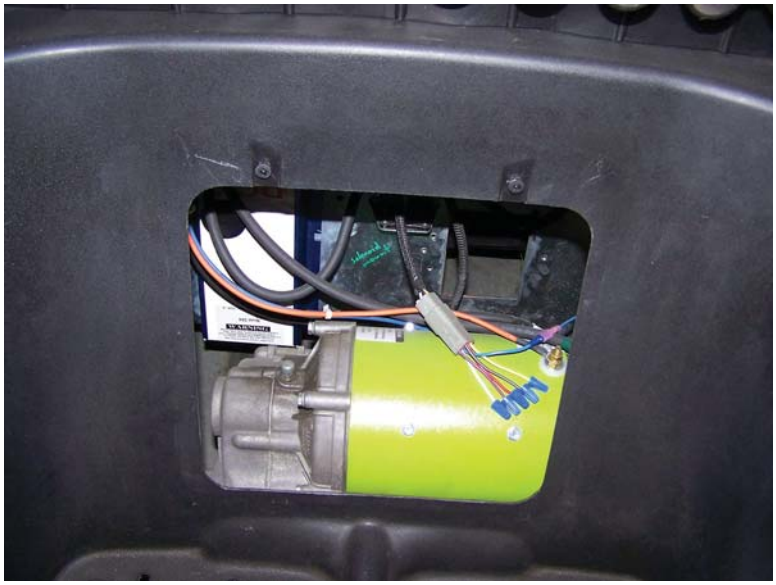


Precedent battery pack arrangements for years 2004 and up. Notice from 2004 to 2008 it is pretty consistent. However, it bounces all over the board on that 1/2 year model. 08 year had a car system called Excel and was only out for about a 1/2 year. There was an odd ball speed control used that a part number is not available. You must defer that customer to technical. For the six battery arrangement the customer will need a voltage converter for lights (28949). That 1/2 year 08 model is when the rear half light harness was left out.

Locate inspection cover in bag-well.

Remove Inspection cover so you can see the exposed frame.



Set the converter onto frame either left hand side or right hand (left is shown). Mark mounting holes and drill to a size that will accommodate self tapping screws.

Once it is mounted route the battery connection wires to the main positive large terminal on the solenoid, the one coming straight from battery number one positive. Place car in tow position before disconnecting the batteries!

Connect the main negative lead to the first negative connection to the car. Battery 4 or battery 6 depending on which battery arrangement the car has.

Connect the 12 volt converter wires directly to the rear half light harness positive and negative feed as per converter diagram.

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