

## 31486/31487 Voltage Converter:

The wiring connections are as follows:

Input is available for 72 Volt as well

**Green Wire is 12 Volts Positive (out)**

**Red Wire is 36V/48V/72 Volt 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**



Caution: Wear Appropriate Eye Protection!

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

**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!**

**DO NOT EXCEED  
CONVERTER AMPERAGE  
AND VOLTAGE RATING!**

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.

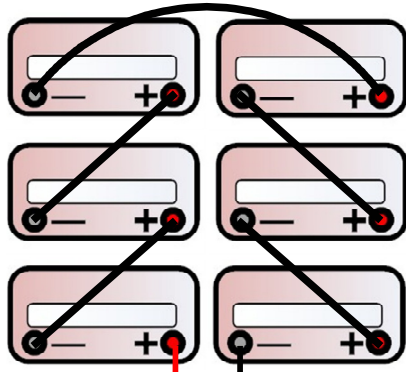
Warranty will not cover loose connections or grounded wiring systems. Warranty will not cover wrong mounting procedures or incorrect connections.

### Indemnification And Insurance Agreement

Electrical Component purchaser assumes sole and entire responsibility for, and shall indemnify and save harmless Nivel LLC, from any and all claim, liability, responsibility, and persons or property that may be sustained in connection with the use of any product before or after purchase, including but not limited to Electrical Components purchased. The Electrical Component purchaser also shall indemnify Nivel LLC harmless with respect to any and all liability that may be incurred.

Golf Cars are recommended for use only by those aged 16 and older. Golf Cars can be especially hazardous to operate. Always remember that riding and alcohol/drugs don't mix. Never ride on public roads. Never carry more than two passengers (except shuttles and trams). Never engage in stunt driving. Avoid excessive speeds and be particularly careful on difficult terrain. Nivel LLC reserves the right, at any time, to discontinue or change specifications, prices, designs, features, models, or equipment without notice and without incurring any obligation.

**31487/31486 Voltage Converter**

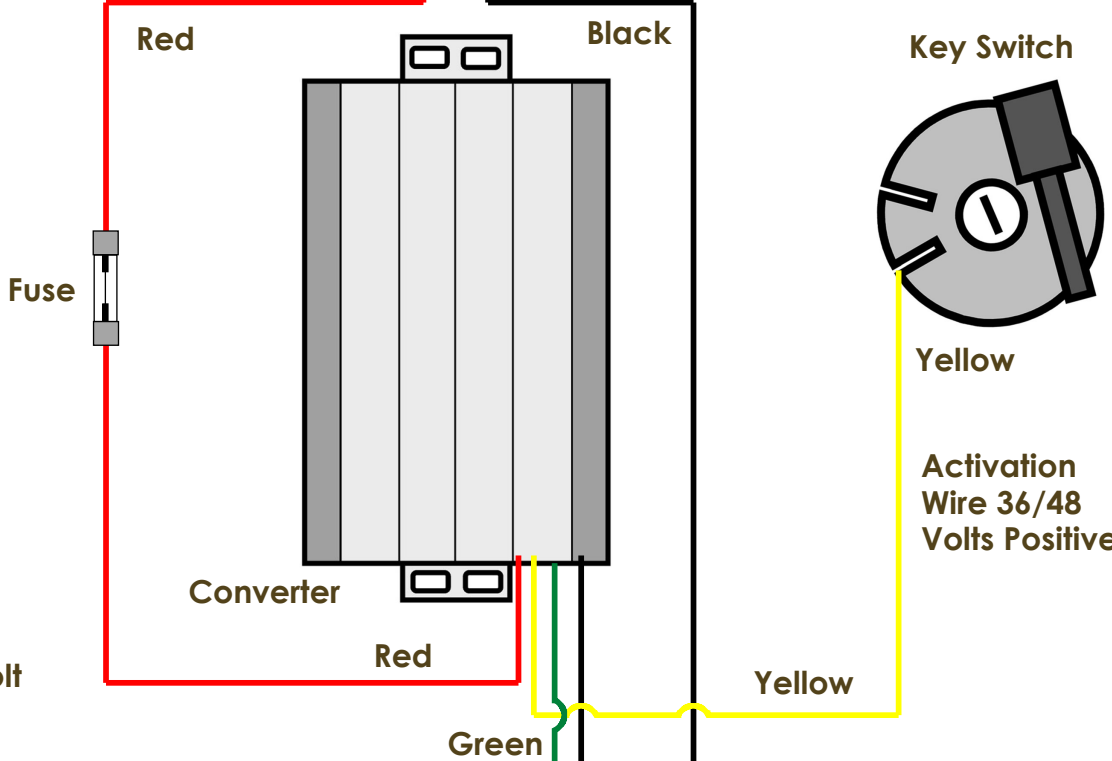


36/48/72 Volt  
Battery Pack

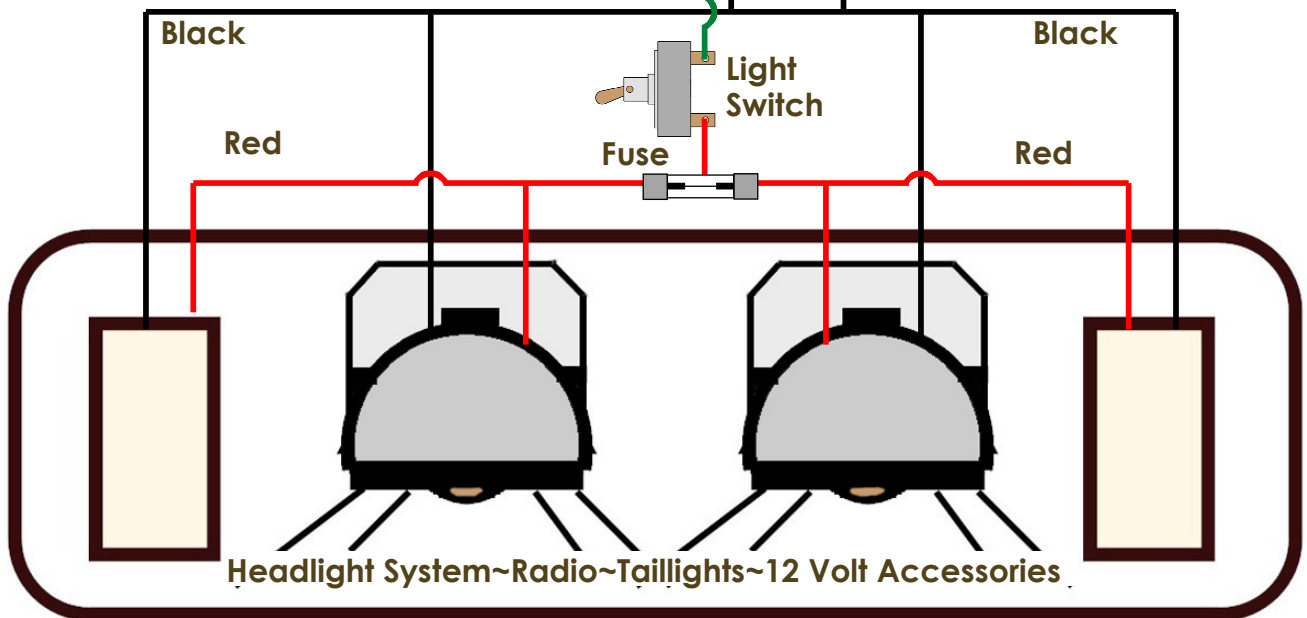
**Tech Tip: 12 Volt Negative Is Shared With Main Battery Pack Negative.**

36/48 Volt Positive

36/48 Volt Negative



**Note: Green Wire Is 12 Volt Positive.**



Headlight System~Radio~Taillights~12 Volt Accessories