



## **ZIM.641.000.XX**

### INSTRUMENT VOLTAGE CONVERTER

Thank you for purchasing the Zim's Autotechnik Instrument Voltage Converter! Proudly designed and manufactured by Zims right here in the USA.

This device reduces the 12 volt power supply to the instruments down to 6 volts, allowing you to retain your original instruments without modifying them. This converter is only designed to operate the tachometer, fuel and oil gauges ONLY. ANY OTHER ELECTRICAL LOAD ON THIS CONVERTER WILL CAUSE IT TO PERMANENTLY MALFUNCTION!

### **Installation**

In basic terms, we will be disconnecting the existing power supply (blue/yellow wire), isolating it, and replacing it with our own power supply (blue wire).

1. Install the black wire from the converter (12volt power) to a connection on the ignition switch that is hot when the key is turned on.  
The receptacle next to the blue and yellow wire should be correct. Check with a test light.
2. The brown wire from the converter is a ground. Attach it to the car with a sheet metal screw, or place it under one of the knurled nuts that holds the bracket to the back of the gauge.
3. The blue wire on the converter is the 6 volt power wire that plugs into the gauges.  
CAREFULLY remove the blue and yellow wire from the temperature and fuel tank gauge.
4. Place some light grease on the bullet connectors and GENTLY push them into the sockets, replacing the blue/yellow wire.  
\*You do not have to push the connectors in hard, just push them so they are connected.
5. Place a small piece of insulating tape over the blue/yellow wire bullet connectors you removed.
6. If your car has an electric tach, attach the push on terminal to the #15 on the tachometer.  
If your car has a mechanical tach, just don't use that connector and tape it off so it won't contact anything.
7. The converter comes with double sided sticky tape and can be installed behind the dash.

The voltage to the clock, horn relay and headlight relay can be reduced by installing our Zims Relay and Clock Voltage Converter (Part Number ZIM.615.199). Call 800 356 2964 if any questions.

Please note: This unit was tested by us before it ever leaves our facility for proper operation and voltage. This unit was checked by \_\_\_\_\_ on \_\_\_\_\_.