

T-5166-C, T-5166-CHD Converter

The NGVB-HC VOLTAGE BOOSTER will operate 12 volt negative ground accessories from 6 or 8 volt negative ground electrical systems. Because of its very efficient design, its current draw is negligible when no load is applied. Unlike conventional boosters which use a transformer, it can be used for memory maintenance or alarm systems in the standby mode for long periods of time without discharging the vehicle battery. Quiescent current draw is about 10 milli-amps.

The booster is a cube 1-3/4" on each side. Due to its very small size, it can often be mounted directly to the accessory it is intended to operate.

The NGVB-HC VOLTAGE BOOSTER is designed to operate with any input voltage from +4 volts to +11 volts. It is protected against reverse polarity, overload, and short circuit. Note: FOR CONTINUED PROTECTION, NEVER REPLACE THE INPUT FUSE WITH ANYTHING EXCEPT A 10 AMP FAST ACTING (3AG TYPE) FUSE!

The maximum output power is a function of input voltage. The greater the input voltage, the greater the output power will be. When used in a 6 volt system, it can continuously supply more than 3-1/2 Amps. with the engine off, and about 5 Amps. with the engine running at a fast idle. You should know the average (continuous) and peak power requirements that your radio or other accessory will require. Brief excursions above the maximum output rating will not damage the Voltage Booster or the radio, but may result in reduced output voltage while the over current condition exists. Keep in mind that a 6 volt system that is working properly actually operates at 7.2 volts when the engine is running and higher volume levels are desirable.

INSTALLATION: Using the mounting screw and lock washer provided, fasten the voltage booster directly to a metal (grounded) surface behind the dash or in any convenient location. The voltage booster must have a Good Ground to operate properly! If it is not possible to directly attach the voltage booster to a grounded metal surface, the wire provided may be run from the case screw to vehicle ground. Never attempt to drill additional holes in the case! Connect the wire with the fuse to the ACC terminal of the ignition switch or the RADIO terminal of the fuse block where applicable. Connect the other wire to the accessory you intend to operate (see illustration). Turn the accessory off, then turn the ignition switch on. Check the output voltage -it should be about 12 volts with no load. Now turn on the accessory. The output voltage should not change if the maximum output power is not exceeded. As an alternative, the voltage booster may be mounted directly to the case of the radio it is intended to power as long as the radio is well grounded. If the radio gets its ground only from the antenna connection, the voltage booster may introduce a significant amount of background noise. If the voltage booster is operated at or near its maximum rating, it may become fairly warm to the touch. This is normal as the switching power is dissipated through the metal case.

