

# **UNDERSTANDING THE WORKINGS OF A REMOTE STARTER:**

**This is how the Remote Starter works: As we know, when the Ignition Key is inserted into the ignition switch you first turn the ignition key to “ON”, this is the Ignition “ON” Position, by doing this all of the normal dash lights will turn “ON”. Next we TURN and HOLD the ignition key in the Cranking position, the starter motor cranks the engine until the engine starts, if the Heater/A/C switch on the climate controls of the vehicle is set to the “ON” position, after we start the vehicle and release the Ignition key from the cranking position, you will notice the Heater/Blower motor turns “ON”.**

**When we press the Start Button a RF (Radio Frequency) signal is sent to the antenna on the Remote Starter we get the same operational sequence in that order from the remote starter that has been tied into the Ignition Switch harness on the vehicle. The Remote Starter sends (+) Positive 12volts to the Ignition #1 and #2 wires (if required) on this vehicle and the Ignition turns “ON” (all dash lights turn on as if the key is in the ignition switch), the Remote Starter at the same time sends (+) Positive 12volts to the Accessory wires at the ignition switch harness. The Accessories turn ON, (and then “OFF” during cranking). The Remote Starter then sends (+) Positive 12volts to the Starter/cranking wire at the ignition switch harness in the vehicle, spinning the starter motor over, the engine starts, the Remote Starter removes the (+) Positive voltage from the Starter/Cranking wire at the ignition switch harness in the vehicle and in the last sequence, the Remote Starter again sends (+) Positive 12 volts out on the Accessory wire and the Accessories turn back “ON”. After the vehicle is started and is running under the operation of the Remote Starter, the Remote Starter waits 10 seconds and looks for an increase in battery voltage, it look for this voltage on the 12 volt constant connections on the main unit. That voltage goes from 12 volts to 13-14volts DC. If the Accessory wires are connected properly and the unit is seeing this increase in voltage the vehicle will remain running. If the charging system is not operating properly or you did not connect to the proper Accessory wires the vehicles engine will stop after 5 seconds. By connecting the Remote Starters Relay outputs to the correct Ignition #1 wire, if needed Ignition #2 wire, Starter/Crank wire, and Accessory wire or wires in the vehicle, the vehicle will remote start and run as if started by the key.**