SMART-STOP Li-Po Battery Cut-Off Circuit

•read completely before installation or set-up•

The Smart-Stop monitors the Li-Po's voltage & safely cuts off the ESC's throttle output when the voltage drops below a safe level--6.25V for 2-Cell Smart-Stop (#5470), 9.375V for 3-Cell (#5472), & 12.5V for 4-Cell (#5471).

Mounting Position--The Smart-Stop is best positioned near the ESC, as its main power leads (20G Red & Black silicone wires) connect easiest to ESC's battery power wire tabs (if ESC has solder tabs)--Smart-Stop can also connect to battery, battery connector, or battery's power wires. Based on where your Smart-Stop will connect, select a position where the unit can be mounted in the vehicle (do not mount at this time).

Power Lead Connection--Measure and cut the Smart-Stop's 20G RED & BLACK silicone power leads to the required length for where it is to be mounted. **Strip & tin the ends of the power leads and solder to your ESC's RED** *(positive)* **& BLACK** *(negative)* **solder tabs--RED power lead to RED** *(positive)* **tab; BLACK power lead to BLACK** *(negative)* **tab.**

When soldering leads to the tabs, make sure you do not short any of the tabs to each other--your electronics will be damaged!

If connecting Smart-Stop's power leads to battery, its connector, or battery wires, insulate solder joints & exposed wiring to avoid short-circuits.

Note: When using 4-Cell Smart-Stop with the Novak HV Brushless ESC, connect power leads the same solder tabs as the ESC's Power Capacitor.

Input Harness Connection--Disconnect ESC's input signal harness from the receiver and plug it into the 3-pin header on the Smart-Stop--**connect input harness with the WHITE wire toward the outside of the Smart-Stop's PC board.**

The white/red/black sequence of ESC's harness should match Smart-Stop's signal wires soldered to the opposite side of PC board--white over white, etc.

Connect Smart-Stop's harness to receiver throttle channel (#2), making sure wiring sequence matches the other receiver connections.

Very old radio systems may require changing the wiring sequence in plug.

Smart-Stop Programming--Sets transmitter's neutral point into Smart-Stop. *ESC should already be set-up & programmed to your transmitter (One-Touch on Novak ESCs). Motor won't run during set-up.*

With a charged battery pack in vehicle & transmitter turned ON:

Press & Hold the Smart-Stop's push button (under heat shrink) then turn on ESCs power switch--continue holding button until the Red LED comes on solid, then release button.

Go to Full-Throttle position with transmitter & hold until the Green LED comes on solid, then return to Neutral.

The Green LED will flash, then the Red LED will come back on, indicating that the Smart-Stop is programmed & ready.

Mount Smart-Stop--Use the included double-sided tape or a tie-wrap to mount the Smart-Stop in vehicle. Mount label-side down if you want access to the push button & LEDs.

Blue Indicator LED--Included with the Smart-Stop is a high-power Blue LED that can be mounted in the vehicle where it's easy to see while running--antenna tube, shock tower, wing mount, or ream a hole in the body so it 'pops' in from underneath.

What To Expect During Operation--The Smart-Stop will start interrupting, or 'blipping' the throttle as your Li-Po battery nears the critical safety voltage--***Blue LED will also begin flashing.*** If you continue running and the critical voltage is reached, the Smart-Stop will completely shut off the ESC's throttle signal--you will still have full control of the steering.
