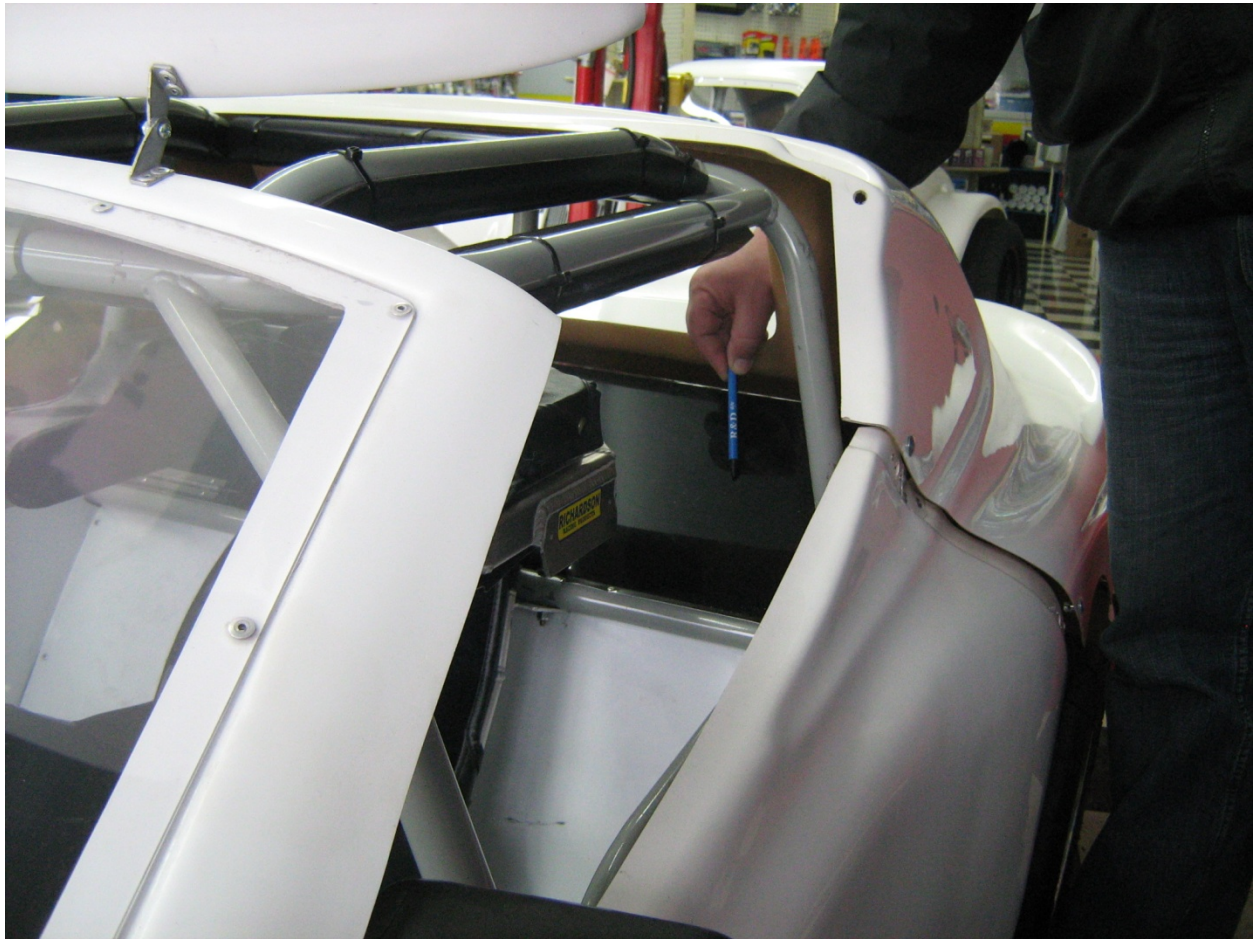


Bandolero Kill switch installation procedure.

Written by Greg MacLean, March 30, 2014

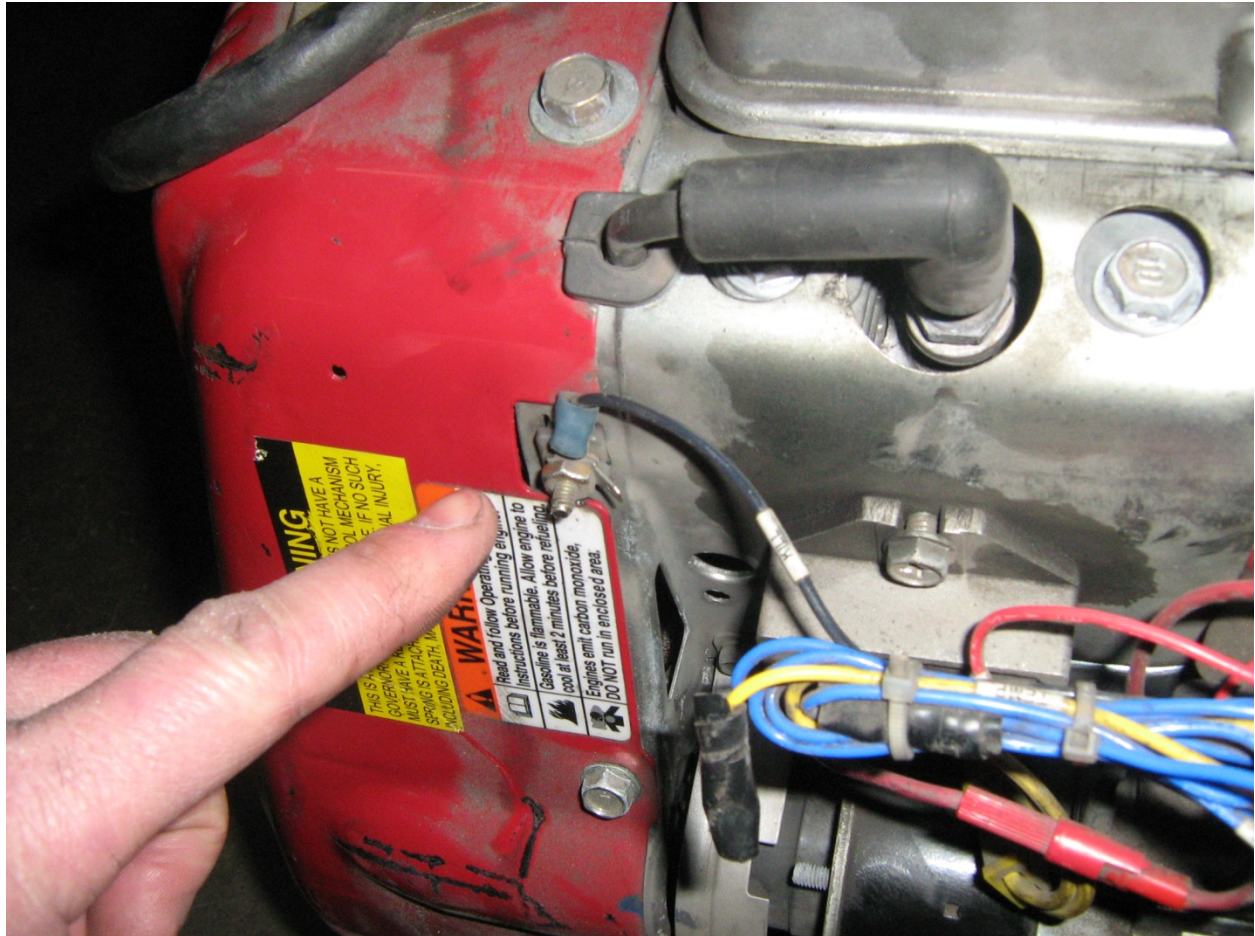
Scotia Speedworld's Kill switch rule states that a kill switch is to be mounted on the left side rear deck of the interior tin (see pic #1), and it must shut off the engine and fuel pump.



Pic #1 - Location where Kill Switch is to be mounted.

The ignition system on a Bandolero car is similar to the ignition system on your hand push lawnmower. It doesn't require battery voltage to generate spark. Instead, it generates its own spark via a flywheel magnet and a set of magnetos/coils. What this means is your engine will continue to run even if you pull the cables off of the battery. To get the engine to stop running the small black diode wire from the coils must be grounded out, the same as your lawnmower. As soon as the ignition is grounded out and the engine quits, the crankcase pulse operated fuel pump will stop pumping fuel. To meet Scotia Speedworld's kill switch rule you simply have to run a wire (14-16 gauge will suffice) from the ground

terminal on the engine to one of the kill switch's small terminals, then from the other small terminal on the kill switch to a good chassis ground. The engine ground terminal is located on the front right side of the motor as it sits in the car (see pic #2). The threaded stud has a #8-32 thread. An easy way to make the connection here is to put a small wire eyelet over the stud and secure it with a second nut, preferably a nylock nut.



Pic. #2 - Ignition ground terminal location. Nut size is #8-32.

The kill switch to be used should be robust enough to withstand the severe vibration present in a Bandolero car (See pic # 3 of a commonly used kill switch). If you have a kill switch with two large terminals you can use those terminals to wire up your ground circuit. If you have a kill switch with two large terminals and two smaller terminals, you can use the two smaller terminals to make your connections.

It's important to understand that the kill switch's "On /Off" locations will have to have the labels reversed for a Bandolero car. The switch's normal "ON" position will actually be making a connection inside the switch to ground the ignition out, shutting the engine OFF. To get your engine to start, the kill switch will have to be switched to the normal "OFF" position. Clearly mark your switch so that "OFF" shows that the engine will shut OFF with the switch on that position.



Pic #3 - Typical Kill switch. This one has two large terminals and two smaller terminals. Because the wire size is small you can use the two small terminals with this type of switch.

There have been occasions when the magneto/coil wires have become unplugged underneath the red cooling shroud on the Bandolero engines. If this happens, even the kill switch will not shut off the engine. To address this, Scotia Speedworld is asking all racers to install a simple spark plug wire "pull off loop" for the front cylinder and the rear cylinder (See pic #4). All this requires is two plastic ties per ignition wire. These loops will permit pulling the spark plug wires off of the sparkplug while lessening the chance of a shock to the person pulling the wires off.



Pic #4 - Spark plug wire pull off loops. Install one on each of the two spark plug wires.