Out 12-16v
Power In:

Ignition Power Source:
Connect ONLY the MSD 8971 or 8168.

Air 0-200psi
Port 1
Input Source

Port 3 Vent
Left Open

Air Powered Fuel
Shut off valve port 2

Air Powered Chute
Release valve port 2

MSD 8971 or 8168

Burst Panel
Activates when the tether is pulled or circuit is opened.

6” Manifold
Tether Cable

Tether Anchor

Warning!!! When the blower is banged, replace the tether. Also carefully inspect both the anchor and the extension cable and check the system for proper operation.

RF Receiver

Ground Wire.

Fire Bottle Switch: Activates when the fire bottles are set off.

Fire Bottle

Warning!!! When the fire bottles are set off, be sure to clean the pressure switch and check the system for proper operation.

6 ft Extension Cable.

Cable Hold Down

6” Manifold Tether

Power to existing Fuel / Clutch System

Input Source

Warning!!! When the fire bottles are set off, be sure to clean the pressure switch and check the system for proper operation.
The Electrimotion Safety Shutoff box is designed to shut off the car as a result of a catastrophic event. The box has 3 trigger inputs, which will trigger 3 separate output events. The 3 trigger inputs are a burst panel input; a Fire Bottle trigger input and a wireless shut down input.

For the Fire bottle trigger input, a typical 10lb air pressure switch is supplied. This air pressure switch should be plumbed into the fire bottle line.

For the burst panel input, a tether is supplied with an extension cable. The tether is to be installed across the manifold burst panels. A typical installation is shown on the following pages. The tether must be installed at power up or the ignition output will not turn on! This is by design to make sure the tether is connected. If during normal operation the tether connectors are unplugged, the circuit is opened and the controller is triggered.

For the wireless shut down option, a small 3-pin connector is utilized. When the car passes the on track transmitter the Safety Box will trigger.

The 3 outputs are Ignition Power, fuel shutoff air, and parachute air. The fuel and parachute outputs are hi flow air valves. To mechanically complete the system, 2 air cylinders are required. The suggested air cylinder is 7/8” bore, 3” stroke Fabco PN F-0875D02-03A or Clippard PN UDR-14-3 with Rod End RE-1285. The air cylinders are available from EM upon request. Typical installations for both fuel shutoff and chute activation are shown on the following pages. The Ignition power output is a 2 pin Deutsch connector. Only connect the MSD 8971/8168 to the Ignition power output. (Max Current 2A).

When any of the inputs becomes true, the 3 outputs will immediately trigger.

The controller will receive power from the existing +12-16v battery pack that is already used.

Dimensions of the box are 4.5”W x 2.0H x 1.75”D.
Do Not use Polypropylene or Polyurethane air lines

General Warnings:

IT IS THE RESPONSIBILITY OF THE PERSON INSTALLING ANY CONTROL SYSTEM COMPONENT OR KIT TO DETERMINE THE SUITABILITY OF THE COMPONENT OR KIT FOR THAT PARTICULAR APPLICATION. IF YOU ARE NOT SURE HOW TO SAFELY USE THIS COMPONENT OR KIT, YOU SHOULD NOT INSTALL OR USE IT. DO NOT ASSUME ANYTHING. IMPROPERLY INSTALLED OR MAINTAINED CONTROL SYSTEMS ARE DANGEROUS. IF YOU ARE NOT SURE, GET HELP OR RETURN THE PRODUCT. YOU MAY OBTAIN ADDITIONAL INFORMATION AND TECHNICAL SUPPORT BY CALLING ELECTRIMOTION AT (740) 362-0251, OR VISIT OUR WEB SITE AT WWW ELECTRIMOTION.COM. USE OF ELECTRIMOTION TECHNICAL SUPPORT DOES NOT GUARANTEE PROPER INSTALLATION. YOU, OR THE PERSON WHO DOES THE INSTALLATION, MUST KNOW HOW TO PROPERLY USE THIS PRODUCT. IT IS NOT POSSIBLE OVER THE PHONE TO UNDERSTAND OR FORESEE ALL THE ISSUES THAT MIGHT ARISE IN YOUR INSTALLATION. LIABILITY ON DEFECTIVE MERCHANDISE OR MERCHANDISE NOT CONFORMING TO MANUFACTURER'S SPECIFICATIONS IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE ITEM. RACING EQUIPMENT MUST BE MAINTAINED AND SHOULD BE CHECKED REGULARLY FOR FATIGUE, DAMAGE, AND WEAR. DO NOT OPERATE ANY VEHICLE ON UNTESTED CONTROL SYSTEMS!

Funny Car Safety Box Kit PN SB001FC

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Typical Manifold Tether Installation
Typical Mounting of Fuel Shutoff Air Cylinders.
Typical Mounting of Chute Release Air Cylinders.
Typical Mounting of Fire Bottle Air Switch.