

Installation Instructions for MR-0102-001

Solid State Battery Disconnect

Device Mounting

The Modern Racing Battery Disconnect has four mounting holes. The battery disconnect is mounted between the battery and the main power wire running your car. The mounting dimensions are 3.5 X 2.5 with 4 mounting holes sized for a 3/16 or #10 screw. The location of the disconnect, as well as total current load, can affect the temperature of the unit. The disconnect needs to be as close to the battery.

Switch Mounting

Master switch

The large red master switch is to be mounted on the driver's side rear bumper. The included large round sticker is to be installed around the switch. The switch must be easily visible.

Driver switch

The driver's switch is mounted in the switch panel with all the other switches. If mounted on the bottom of the switch panel it is recommended that the on position be toward the driver. If the driver must shut down power in the event of an emergency, we have found it easier to press the switch forward.

Pressure Switch

The pressure switch needs to be mounted as close to the fire bottles as possible. The switch will install in the output tubing of the system so when the system activates it will reference the pressure from the fire agent being discharged. The sensor has an 1/8 NPT male threaded end.

Control Connector Hookup

The control interface connector on the SSBD is a Duetsch DT 4 pin connector. Connectors with unterminated terminals can be purchased for custom installs. Pigtail style harnesses are available as well.

Pin 1

Main ground for the unit, this wire needs to go directly to battery ground.

Pin 2

Input for the rear bumper disconnect switch. The wire will connect to the pin A terminal of the rear bumper switch, the other side of the switch, pin B, will go to the driver-controlled switch. The wire will then connect to screw stud 2 on the driver switch. Connect a ground wire to screw stud 3 on the driver switch. Applying ground, turning both switches on, will apply battery power to the car. Anytime ground is removed from the circuit, either switch in the off position, will disconnect power from the car.

Pin 3

Fire system switch. This wire will connect to pin 2 N/O and pin 3 COM of the 120-psi pressure sensor connector. When the fire system is enabled, the pressure switch will momentarily go to ground, opening the battery disconnect until the main power switch has been cycled.

Power Studs

The power cable can be hooked up on either stud. There is not a in and out stud on the SSBD. The studs are 3/8-16 thread pitch, install nuts at a maximum of 15 FT LBS of torque. Rubber insulating boots are strongly recommended for maximum power isolation.

