

RON FRANCIS
Wiring

MS-11
Safe & Sound
Disconnect Switch

The master disconnect solenoid will carry 110 amps of continuous load. Some vehicles' alternators are capable of producing a higher amperage output. In most vehicles this will happen only for a very short period of time and will not affect this product.

Receiver mounting

The receiver "must" be mounted "inside" the vehicle to avoid moisture from entering the unit. Use the small mounting tabs located on the side of the unit or double sided tape to mount the unit. **DO NOT DRILL ANY HOLES IN THE CASING TO MOUNT THE UNIT!**

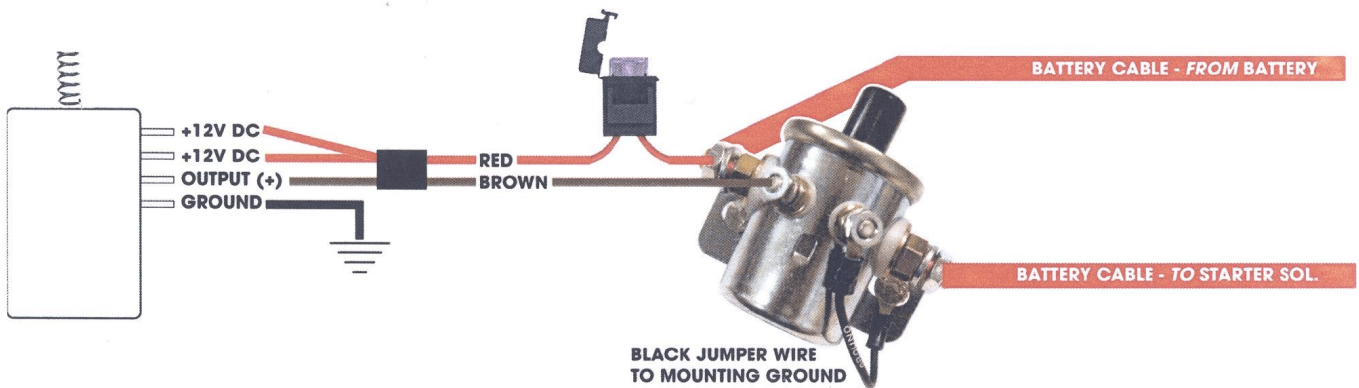
Solenoid mounting

The electric master disconnect solenoid should be mounted as close as possible to the path of the positive battery cable running between the battery and starter solenoid.
The disconnect solenoid is WATER RESISTANT not WATER PROOF. For this reason, when mounting the solenoid, choose a location carefully to limit exposure as much as possible. The solenoid must be mounted with the black solenoid internal shaft cover facing down.

NOTE: Running from one of the "small" wire studs on the solenoid is a short black jumper wire. This wire as well as the solenoid itself must be connected/mounted to a GOOD GROUND source. Failure to do so will prevent the unit from operating.

Receiver wiring

The receiver is prewired. Connect the BLACK wire to a good ground. Connect the two halves of the two way connector with red and brown wires together. Connect the RED wire to hot all the time (battery feed) "fused" 10 amp power source. Connect the BROWN wire to the other small "empty" terminal on the solenoid **NOTE:** The receiver will draw approximately 10.5 nA (nano amps) in stand by mode.



NOTE: IT WILL BE NECESSARY TO OPEN THE REMOTE AND REMOVE THE PAPER TAB BETWEEN THE BATTERY AND THE CONTACTS BEFORE USE. THIS IS TO SAVE BATTERY LIFE OF REMOTE.

Battery Cable Connections

The two large solenoid studs accept a 3/8 battery cable ring terminal (not provided). Cut the battery cable allowing enough excess to reach the solenoid stud terminals. Install the ring terminals on the cable using the correct crimp tool, or solder the terminal onto the cable. The cable from the battery can be connected to either of the large 3/8 terminals on the solenoid.

Note: The installation of the battery cable ring terminals is an important procedure. Failure to make these connections properly can cause electrical system damage.

Back-Up Toggle Switch Installation

The toggle switch supplied will actuate the master disconnect solenoid by moving the switch lever in either direction. After a click is heard from the solenoid, let the switch lever return to its relaxed position. The switch mounting location should be hidden in an area of the vehicle so the disconnect solenoid can be used as an anti-theft system.

Connect the red wire to the LARGE stud on the solenoid (the one that the positive battery cable is connected to) and run the other end to the toggle switch. Using the blue insulated ring terminal supplied, cut the wire to length and connect it to the center pole on the switch. Run the brown wire from the switch to the small stud on the solenoid. Cut the wire to length and connect it to the same stud as the brown wire running from the module. **NOTE: Pre-installed on the switch is a jumper wire running between both outer poles.**

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Operation

The transmitter is designed to operate within 25 feet of the vehicle. The operating range may be extended to a longer distance or limited to a shorter distance depending on various different factors, receiver mounting location, outside transmitter radio interference or transmitter battery power. When operating the unit push and hold the transmitter button for at least one second. Failure to do so will not operate the disconnect solenoid.

Additional Transmitter Programming Procedure

NOTE: When adding additional transmitter(s) the programming of the transmitter supplied with the system is cleared and must be re-added as noted below.

1) Open up receiver box and press the programming button on the receiver board. The red light closest to the programming button will illuminate on the receiver board.

NOTE: The next two steps must be accomplished within five seconds of pressing the programming button.

2) Press the button on the original transmitter once while red programming light is illuminated. The programming light will flash once.

3) Press the button on the second transmitter once while red programming light is illuminated and watch for the programming light to extinguish.

4) Test each transmitter for proper function.

If you have completed the addition of the transmitters WAIT THIRTY seconds and the unit will return to normal operating mode. If you would like to add more transmitters follow the procedures noted above.