

INSTRUCTIONS

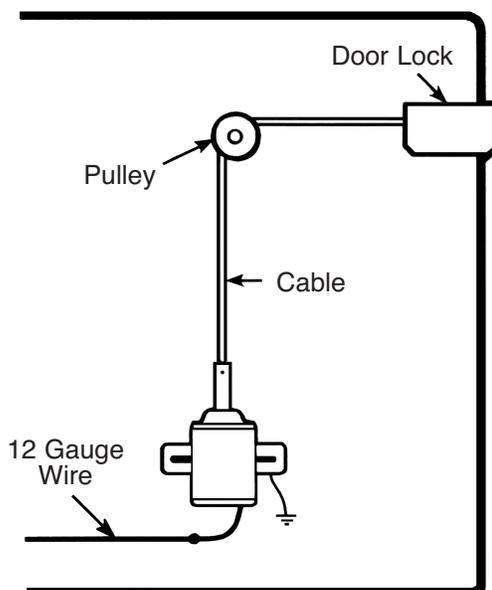
910-69210

Speedway Motors, Inc. May, 2007

ELECTRIC DOOR RELEASE KIT

This Electric Door Release Kit is a universal kit. Installation will be different for each vehicle on which it is installed, and some light fabrication may be necessary. Please read these instructions carefully and realize that you may need to tailor the kit to fit your vehicle. All electrical work should be done with the battery disconnected.

1. Remove door panel.
2. Study the latch mechanism to determine how it is released by the interior and exterior door handles. Determine which lever needs to be pulled by the solenoid to release the door latch.
3. Find a sturdy mounting location for the solenoid. On some vehicles you can mount the solenoid in line with the latch mechanism, so the cable pulls on the latch at the same angle as the original door handle pull rod. On other vehicles you will need to mount the solenoid low on the door, at an angle to the latch release, to avoid interference with window mechanisms and other internal door parts. If the solenoid must be mounted low you can use one of the supplied pulleys to change the direction of pull, as illustrated. The cable must wrap at least 90-degrees around the pulley to keep it from falling off.
4. To mount the pulley, drill a 3/16-inch hole and attach the pulley inside the door using the supplied hardware. Make sure the pulley is in line with the latch release.
5. Insert the solenoid in the supplied bracket; it is attached using the supplied two-sided tape. Mount the solenoid and bracket to the door, making sure they are secure and in line with the pulley and not in the way of any moving parts.
6. Connect the cable to the door latch release; you may need to drill a hole in the latch arm to feed the cable through. Trim the cable to length, making sure it has enough tension to hold the solenoid plunger up and that its connections are tight.
7. You can do a preliminary check of your system by manually pulling the cable to see if it releases the latch. The solenoid plunger has about $\frac{3}{4}$ -inch of total travel, but you want the latch to release after about $\frac{1}{2}$ -inch of travel.



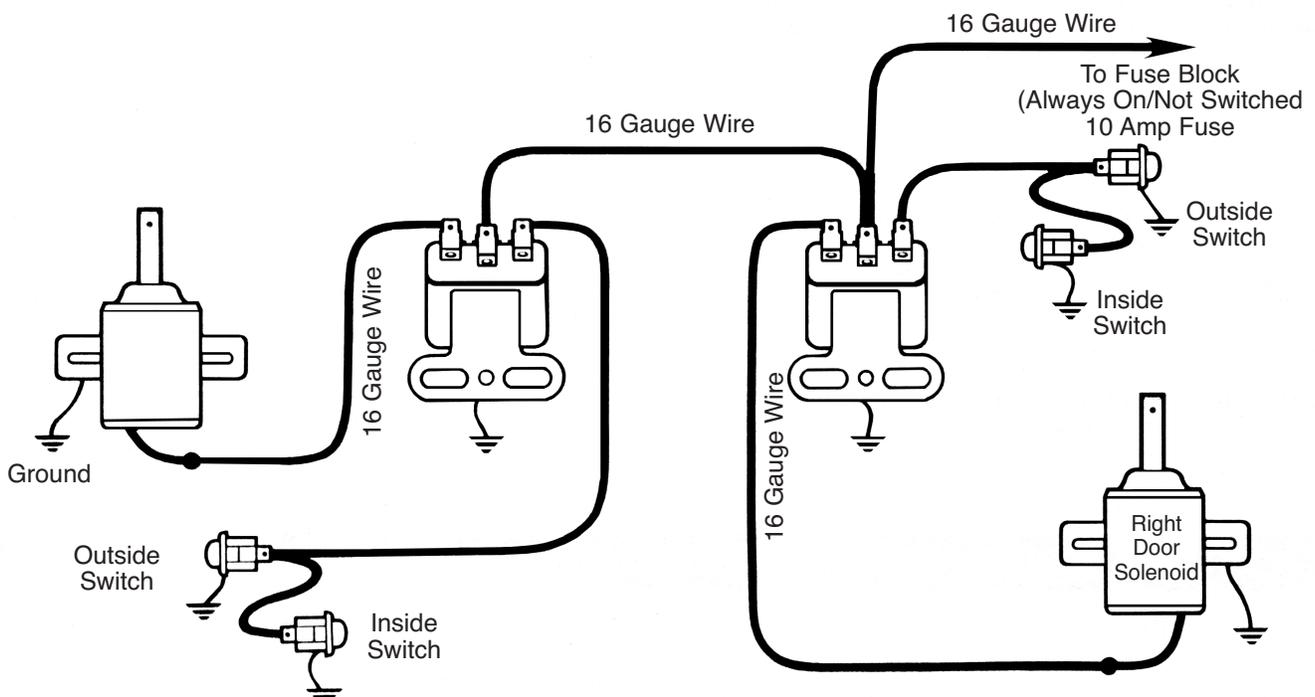
8. To check that the solenoid operates electrically, you first need to make sure it is properly grounded. One of the solenoid's terminals should be wired to a reliable, confirmed ground.
9. Next, connect a temporary "hot lead" wire from the battery to the solenoid's other terminal. This should make the plunger react. If the plunger does not go in, there may be too much tension on the cable. Adjust as necessary until it works properly. Remember to disconnect the hot lead after testing; final wiring should be done through the supplied relays as instructed.

10. The relays can be mounted under the hood or under the dashboard, as long as they have adequate ventilation. Connect a 16-gauge wire from a fused, non-switched source to the B terminal on one relay, and another 16-gauge jumper wire to connect the two B terminals together, as shown in the wiring diagram.
11. Attach one of the supplied wires to one terminal on the solenoid. This wire should be connected to one of the supplied inline fuses, and then 16-gauge wire used to connect it to the H terminal on the respective relay. Remember to route the wire away from moving parts and protect it as necessary as it is routed through the doorjamb or firewall.
12. This kit comes with four door release buttons – enough to have one outside and one inside the vehicle for each door. Determine where you want to mount the switches and drill the required holes. Make sure to run a wire from one terminal on each switch to a confirmed ground. The other switch terminal can be wired to the S terminal on its respective relay, as shown in the wiring diagram.
13. Connect the battery and check the operation of the switches and solenoids. Make sure none of the wires or components get hot; if they do, this indicates something is improperly wired.

NOTE: When checking the solenoid to ensure it is working electrically, it is important that you have the solenoid plunger fully extended out. With the plunger fully out, attach a ground wire to one terminal. Next, touch a hot lead to the other terminal. The plunger should pull in about 1/2- to 3/4-inch.

NOTE: Do not leave the hot lead attached once you have tested the solenoid.

CAUTION: Please pay special attention to steps #6 through #9. If these steps are not followed properly, your solenoid may not work at all, or it may not open the door properly.



IMPORTANT

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Speedway Motors Inc., P.O. Box 81906
Lincoln, NE 68501 (402) 323-3200
www.speedwaymotors.com



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