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855476-03 05.17

Remote Battery Disconnect

part number 766

Installation Instructions

All specifications are subject to change without notice.

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 800-669-9690 Fax: 360-735-9300 www.roadmasterinc.com

Note: do not use this product in vehicles with diesel engines – the battery disconnect will fail.

Note: the battery disconnect will only disconnect one battery. Therefore, vehicles with two batteries will require two battery disconnects.

CAUTION

Not for use with all vehicles. Intended only for use on vehicles whose batteries must be disconnected for towing, as per the owner's manual.

Failure to verify the safety of disconnecting the battery cables or failure to follow the owner's manual instructions for towing may cause non-warranty damage to the vehicle's components.

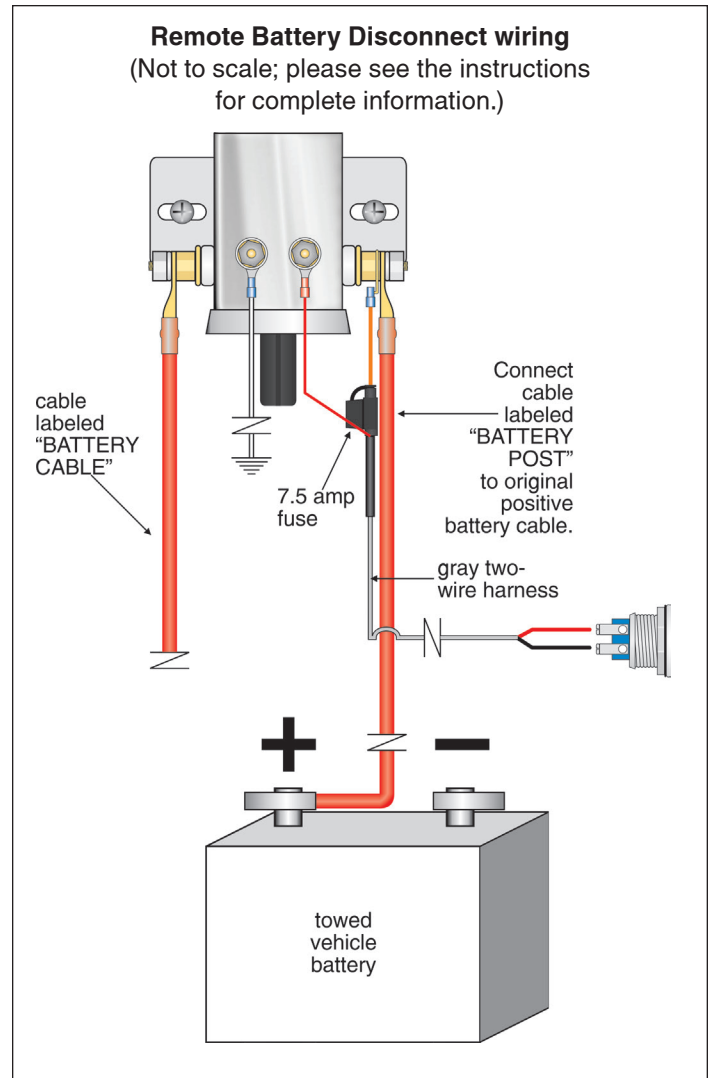
It is the owner's responsibility to make certain that the battery cable can be safely disconnected for towing, and that all instructions in the vehicle owner's manual regarding towing are followed.

CAUTION

The Remote Battery Disconnect is a convenient way to disconnect the towed vehicle's battery. However, disconnecting a vehicle's battery for towing, whether or not the Remote Battery Disconnect is used, will affect the vehicle's electronics –

- After towing, It may be necessary to reset dashboard presets, such as radio presets or seat and brake pedal presets.
- It may be necessary to re-wire aftermarket electrical accessories, such as supplemental braking systems.
- If the vehicle is equipped with a ROADMASTER supplemental braking system, an additional stop light switch

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IMPORTANT NOTICE!

Safety Definitions

These instructions contain information that is very important to know and understand. This information is provided for safety and to prevent equipment problems. To help recognize this information, observe the following symbols:

! WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in property damage, serious personal injury, or even death.

! CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in property damage, or minor or moderate personal injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

Refers to important information and is placed in italic type. It is recommended that you take special notice of these items.

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must be installed at the towed vehicle's brake pedal and wired to the positive post on the vehicle's battery.

Without this additional stop light switch, the motorhome monitor will not indicate braking activity in the towed vehicle. Severe damage to the towed vehicle's brakes, as well as other, consequential damage may occur if the driver of the motorhome is unaware of braking activity in the towed vehicle.

Installation

1. Follow the vehicle manufacturer's instructions to disconnect the negative battery cable.

2. Choose a mounting location for the solenoid (Figure 1) inside the engine compartment. This mounting location must meet the following conditions:

- The mounting point must have a surface of sufficient strength to hold the solenoid firmly in place.
- There are two cables attached to the solenoid. The end of the cable labeled "BATTERY POST" must be within reach of the vehicle's positive battery post.
- The solenoid will be attached with the two included bolts and nuts. Make certain that the bolts will not damage any components on the other side.
- The solenoid must be grounded by using the provided white ground wire. Make certain a good ground is available within two feet of the solenoid.

3. Position the solenoid at the mounting location you have chosen. Drill two 1/4" holes for the bolts through the pre-drilled holes (Figure 1) and attach the solenoid.

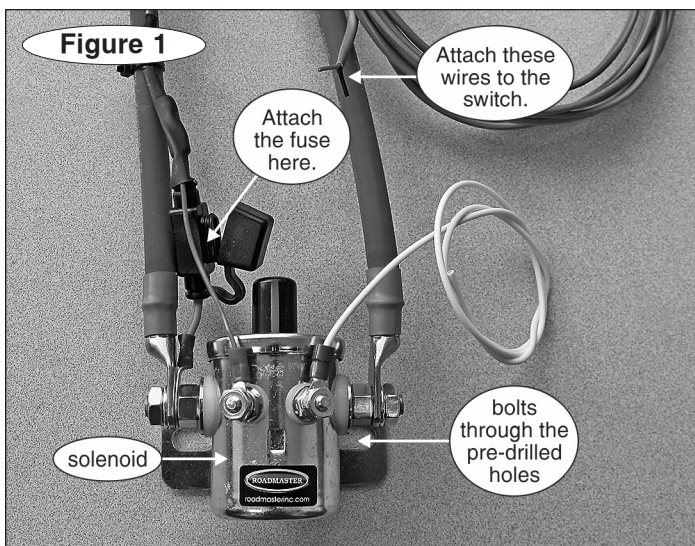
Also attach the white ground wire to any good chassis ground with the included ring terminal and self-tapping screw.

If the cables must be rotated to attach the solenoid, hold the inside nut with a wrench, and loosen the outside nut with another wrench. Rotate the cable, then tighten the outside nut. DO NOT turn the inside nut.

CAUTION

You WILL destroy the solenoid unless you hold the inside nut stationary and ONLY rotate the outside nut.

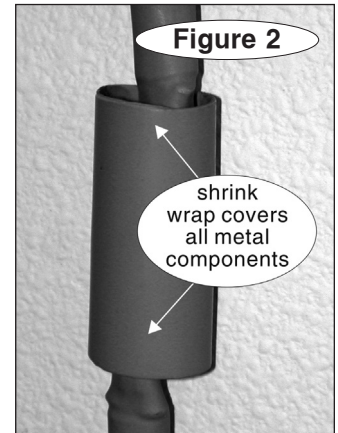
4. Disconnect the positive cable from the battery. Attach the



cable labeled "BATTERY POST" to the positive terminal on the battery.

Note: if a stop light switch has been or will be installed, make certain that the wire conducting power to the switch is connected to the positive side of the battery.

5. Slide the provided section of shrink wrap (Figure 2) over the cable labeled "BATTERY CABLE." Then attach this cable to the positive cable you just removed from the battery: align the two ends of the cables so they match. Then bolt the two cable ends together with the provided 5/16" bolt, nut and star washers.



Note: The star washers must be positioned as shown in Figure 3 – one washer between the ends of the cables, and one under the nut.

Note: If the end of the vehicle's battery cable has a diameter smaller than 5/16", use a 5/16" drill to enlarge it.

6. Center the section of shrink wrap over the connection. Be certain no metal is exposed. Seal the shrink wrap with a heat gun or similar device.

CAUTION

Make certain that no metal is exposed on either side of the shrink wrap. If metal is exposed, a short circuit may cause an electrical fire, which may result in severe damage to the vehicle.

7. Attach the provided protective loom to both cables.

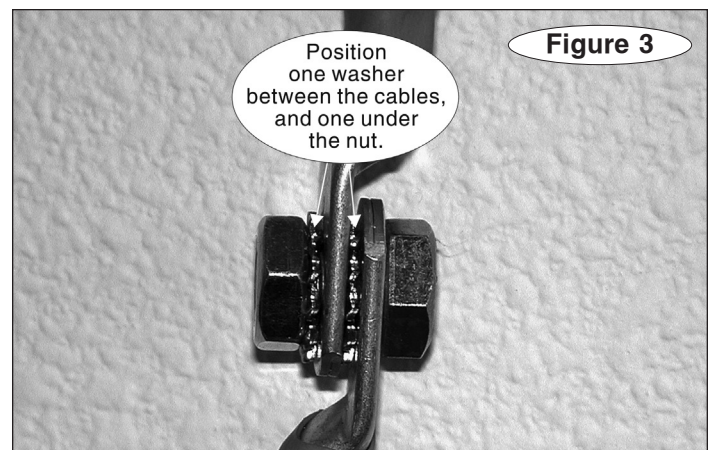
CAUTION

In order to prevent damage from a short circuit, cover both cables with the included protective loom. If the cables are not covered, a short circuit may cause an electrical fire, which may result in severe damage to the vehicle.

8. Look for a mounting surface for the switch (Figure 4) inside the passenger compartment. This mounting surface must meet the following conditions:

- Choose a location where the switch will not be turned on or

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off accidentally, but where it will be accessible.

- There must be enough space for the switch.
- You will remove the mounting nut (Figure 4) to install the switch. You must be able to reach behind the switch to reattach it.
- There must not be any metal, wiring or electrical components directly behind the mounting location.
- You will attach the black and red wires on the gray two-wire harness to the switch. Since the harness is 10 feet long, find a location within 10 feet of the solenoid.

9. Route the two-wire harness from the solenoid to the location you have chosen for the switch. Use one or more of the included wire ties, if necessary, to secure the harness in place.

WARNING

Route the wiring harness to avoid moving parts, sharp edges, the fuel lines or hot components such as the engine or exhaust system.

Wiring exposed by moving parts, sharp edges or hot components may cause a short circuit, which can result in damage to the vehicle's electrical system as well as other, consequential damage.

Wiring which is attached in close proximity to the fuel lines may ignite the fuel.

Failure to follow these instructions may cause property damage, personal injury or even death.

10. Remove the mounting nut from the switch.
11. Drill a 5/8" hole at the mounting location you have chosen. With the mounting nut on the underside, route the two-wire harness through the mounting nut and the hole.
12. Cut the two-wire harness to length.
13. Strip two inches of the insulation from the end of the two-wire harness, then ¼" of insulation from the red and black wires extending from the harness.
14. Loosen the set screws and attach the red and black wires. Attach either wire to either side (Figure 4).
15. Position the switch in the hole. Reattach the mounting nut, and tighten it.
16. Following the manufacturer's instructions, reattach the negative cable to the vehicle's battery.
17. Insert the 7.5-amp fuse into the fuse holder (Figure 1).

Operating the battery disconnect...

1. Attempt to start the vehicle. If the vehicle starts, the battery disconnect is in the "drive" mode. If it does not start, the battery disconnect is in the "tow" mode.

Press the button to switch between "drive" and "tow."

2. To tow the vehicle: follow the owner's manual instructions to tow. At the point the manual instructs you to disconnect the battery, push the button to "tow."

To drive the vehicle: follow the owner's manual instructions to reconnect the battery. At the point the manual instructs you to reconnect the battery, press the button to "drive."

WARNING

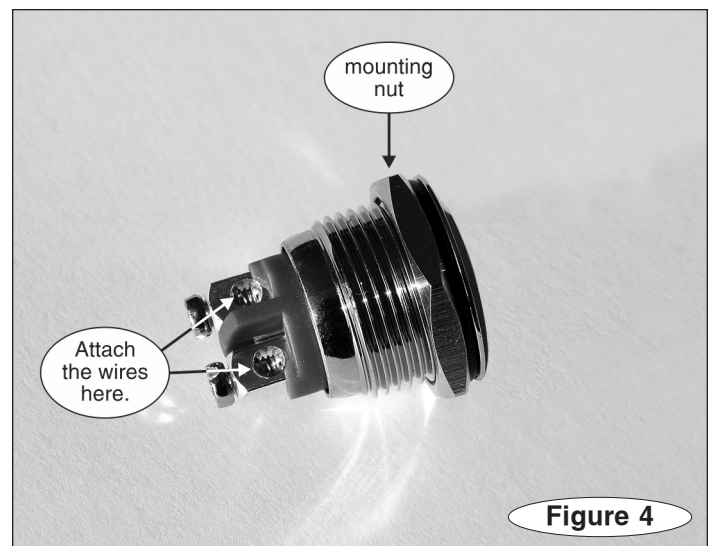
Never operate the battery disconnect in any other way except as instructed above. Pushing the battery disconnect switch randomly may damage the vehicle's transmission,

electronics or other systems. Other consequential, non-warranty damage may also occur.

If the vehicle is being driven, pushing the battery disconnect switch may cause a loss of vehicular control, resulting in property damage, personal injury or even death.

To attach aftermarket accessories...

Attach aftermarket accessories, such as the BrakeMaster break away switch, to the positive post on the vehicle's battery.

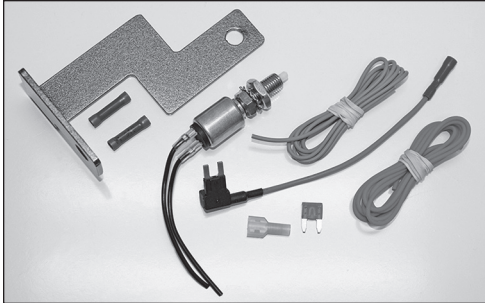


Vehicle-specific components

ROADMASTER manufactures a wide variety of components designed for vehicle-specific towing applications. More components are available at www.roadmasterinc.com, or call Technical Support at 800-669-9690.

Stop light switch kits

If a towed vehicle's brake lights do not function, install this stop light and 10-amp fuse. With the stop light switch in place, the towed vehicle's brake lights will work in tandem with the motorhome's, and the motorhome monitor will transmit accurate braking information.

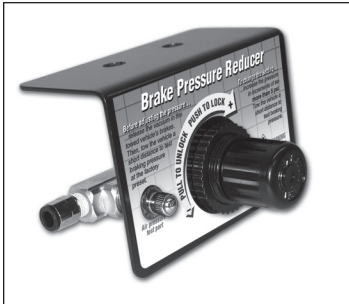


Kits for most popular towed vehicles are available through ROADMASTER.

Brake Pressure Reducer

for BrakeMaster supplemental braking systems

With the Brake Pressure Reducer (part number 900002), you can install BrakeMaster in a hybrid, a Hummer H3, or in any vehicle with an 'active' (or, 'continuous power assist') braking system. Working in conjunction with these braking systems, the Brake Pressure Reducer delivers a correspondingly reduced braking pressure that eliminates over-braking issues associated with these hybrids and Hummers.



In addition to BrakeMaster, the Brake Pressure Reducer will work in other supplemental braking systems which use pressurized air to brake the towed vehicle.

12-volt outlet kit

for Even Brake and the 9700 supplemental braking systems

Even Brake and the 9700 are powered through the towed vehicle's 12-volt outlet, with the ignition key turned to the "tow" position. If the vehicle has no power to the outlet with the key in this position, use this kit (part number 9332).



The 12-volt Outlet Kit can also be used to bypass a corroded or otherwise damaged 12-volt outlet socket, or to replace an outlet with insufficient amperage.

12-volt extension cord

for Even Brake and the 9700 supplemental braking systems

This extension cord (part number 9331) will extend your 12-volt outlet by six feet.



Charge line kits

These simple, easy-to-install kits help maintain the vehicle's battery charge while in tow, supplying up to 15 amps of current. They also extend battery life by providing a constant maintenance charge (without overcharging the battery) during towing.

Installation hardware is included.

- Heavy-duty 14-gauge (156-25) and 12-gauge (156-75) wire
- Includes a thermal circuit breaker – no need to hunt down a blown fuse

- 156-25 Towed vehicle charge line kit
- 156-75 Motorhome charge line kit

shown: 156-75 charge line kit

