



Fusemaster for Ford Expedition INSTALLATION INSTRUCTIONS

#76518

85-6636-00 10-25

ROADMASTER, Inc. 6110 NE 127th Ave. Vancouver, WA 98682 360-896-0407 www.RoadmasterInc.com

Required tools and supplies

- volt meter or test light
- silicone sealant
- power drill with 1/4", 3/8" and 13/16" bits
- Phillips screwdriver, sockets, and wrench
- wire strippers and crimpers

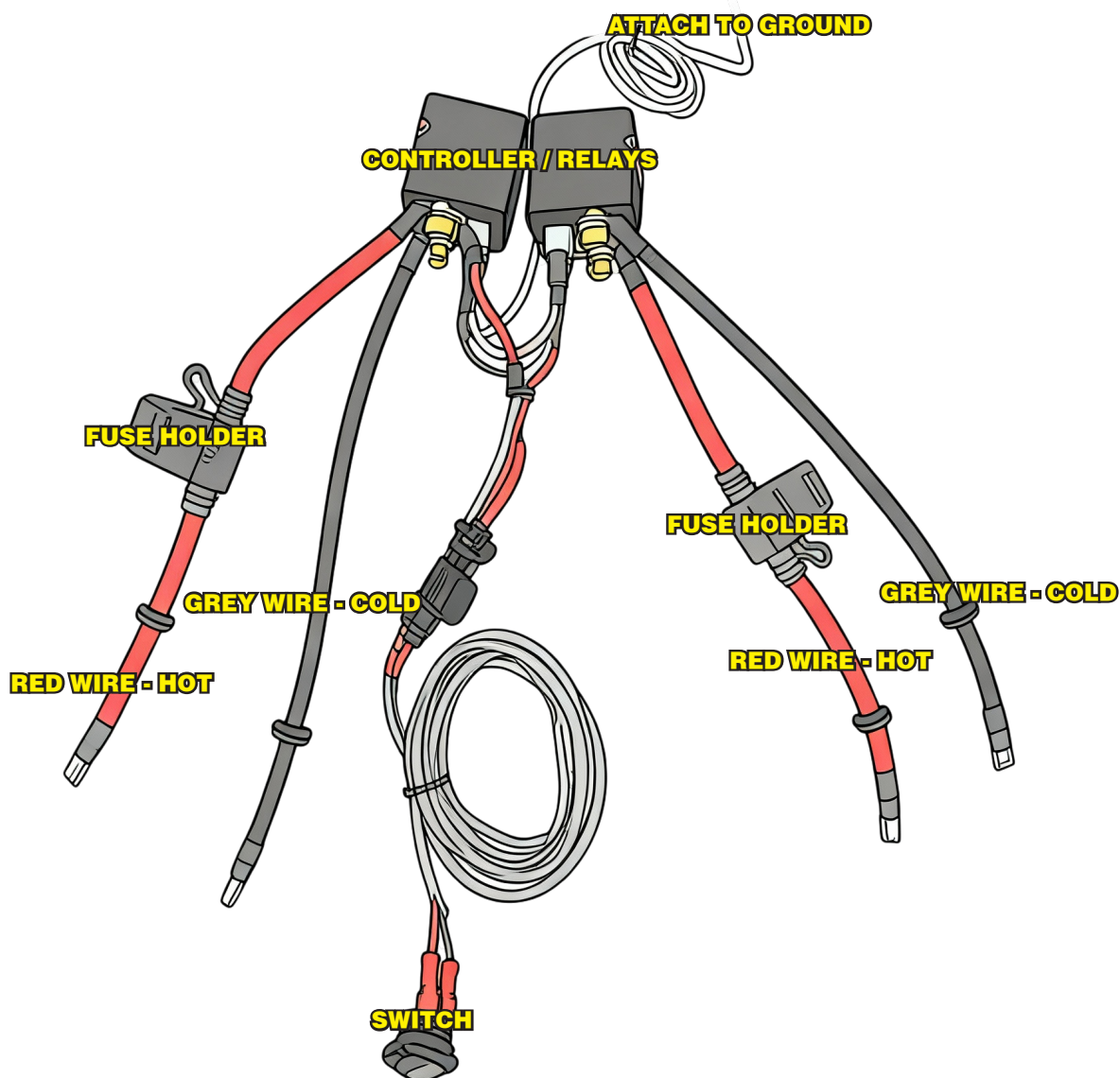
⚠ CAUTION

Read all instructions before installing or operating this device. Failure to understand how to properly install or operate FuseMaster could result in extensive property damage.



Purpose

The FuseMaster eliminate the necessity of manually removing a fuse for towing, then having to reinsert it for driving. After the installation you will press a switch to accomplish the same task.



Important: All illustrations and specifications contained herein are based on the latest information available at the time of publication approval. ROADMASTER, INC. reserves the right to make changes at any time without notice in material, specification and models or to discontinue models.



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Installation instructions

1. Open the engine compartment and identify the drain cowlings above the fuse box on the passenger side of the vehicle (Fig.A), making sure to detach plastic rivets and nuts that hold it in place.

2. Pop out the plastic rivets that hold the tubing above the fuse box for better clearance (Fig.B). Then remove and set aside the drain cowlings.

3. Remove the plastic cover for the fuse block (Fig.C). Pull the fuse identified in the owner's manual as the one to remove for towing, in this case, fuses 4 and 7 (Fig.D). Mark four holes on the plastic cover. Each hole will be directly over each of the four sockets for the fuse in the fuse block.

4. The fuse controller will be mounted in the engine compartment and the switch will be mounted in a location easily accessible to the driver. Grab the included bracket and mount the fuse controller onto it using included hardware (Fig.E).

5. Remove the bolt with washer on the side of the frame, this is the bolt that attaches the support arm for the hood of the vehicle and as such care must be taken to make sure not to move the arm as this could cause the hood to drop (Fig.F). Then secure the included bracket onto the frame.

6. Find a mounting location for the switch which meets the following conditions: Choose a location where the switch will be accessible, but cannot inadvertently be activated. The switch harness will be routed through the firewall to the fuse controller. The mounting location for the switch must be close enough for the end of the harness to reach the controller.

7. Look for a direct route through a pre-drilled (or pre-scored) hole in the firewall, 1/4" wide or larger. If there is no pre-drilled hole, you must drill a hole through the firewall. (If you must drill an access hole, make certain that you will not damage any components or electronics on the other side.) The switch must not interfere with the operation of the vehicle in any way. There must be enough space for the included 'tow' and 'drive' stickers, which will be attached in close proximity to the switch.

8. Follow owner's manual instructions to put the vehicle in 'tow' mode. Test the four fuse sockets that were exposed when you removed the fuses (Fig.D, yellow lines). Use a volt meter or test light between the fuse block socket and ground to determine which is the 'hot' socket (i.e. has 12V power). Make note of which are hot and cold. Once identified, take the car out of 'tow' mode. This will allow you to work without the socket being energized.

9. Before reattaching the fuse box cover; drill 3/8" holes through the four marks you made in the cover. Push a grommet into each of the holes. Make sure the grommets are fully seated.

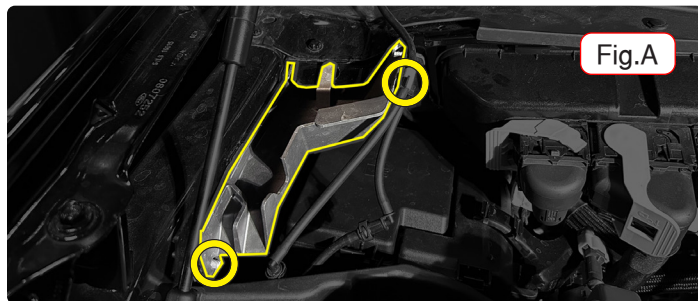


Fig.A



Fig.B



Fig.C

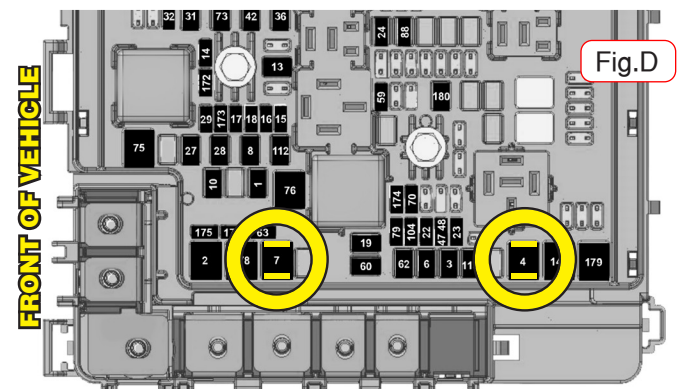


Fig.D



Fig.E

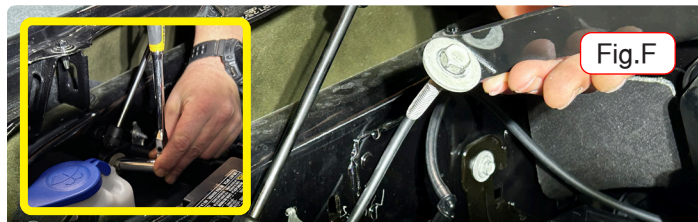


Fig.F



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⚠ CAUTION

Make sure the red wire is securely attached to the fuse socket that registers voltage. If it isn't, the Fusemaster may not function or may possibly operate intermittently.

10. Route all four wires through the grommets in the cover and attach the red wires to the hot side of fuse 4 and fuse 7 (Fig.D, prior page); (Fig.G).

11. Close the fuse box cover carefully so you do not dislodge the wires from the fuse sockets.

12. Take the white wire and find a suitable ground connection for it; for example, it can connect to the battery.

13. Disconnect the switch from the red spade terminals, if connected. Route the wiring harness through the firewall to the switch mounting location. Cut the wiring harness to length, if desired.

14. Be sure to secure the harness with zip ties and verify the harness is not rubbing or catching on any sharp corners or moving components. You may need to drill a 13/16" hole for the switch.

15. Insert the switch into the hole, align the switch either vertically or horizontally, and secure the switch.

16. Grab the wiring harness and crimp a red spade terminal onto each of the two wires to attach them to the switch.

17. Seal the switch wires at the firewall with silicone sealant (not provided).

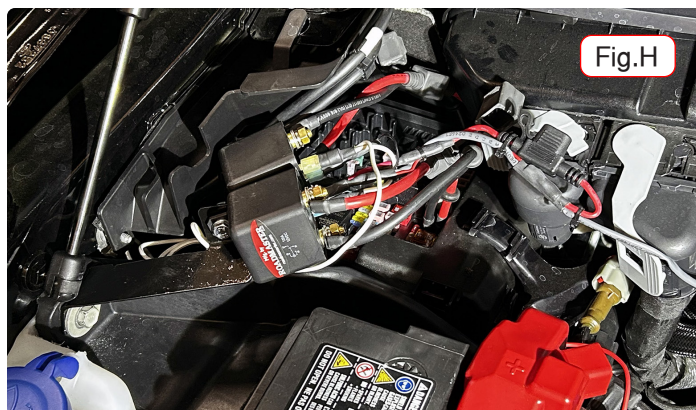
Note: failure to seal the hole may allow water into the passenger compartment, as well as allowing the wires to chafe or short out.

18. Take the fuses you removed from the vehicle's fuse block and insert them into the large 60 amp fuse holders. Close the protective cap to seal out moisture. Verify that the 7.5 Amp fuse is installed in the smaller fuse holder and that its cap is also properly closed.

19. Reattach the drain cowl, reversing the first few steps of these instructions.

20. Now, we will determine which side of the switch should be labelled with the 'drive' sticker. To do so, put the vehicle into 'tow' mode (see the vehicle owner's manual) and momentarily press the switch. Remember which way you rocked the switch. Use a test light or meter to see if there is power on the large black wire at the controller. If there is power, this is the 'drive' side of the switch. If not, this is the 'tow' side, apply the stickers accordingly.

21. Depress the switch to put the vehicle back into 'drive' mode.



⚠ WARNING

Do not depress the switch or otherwise activate the Fusemaster while the vehicle is in operation as this may lead to a critical failure of the vehicle. **Failure to follow these instructions may cause property damage, personal injury or even death.**

Operating Instructions

1. To put the vehicle into 'tow' mode, follow the instructions in your vehicle owner's manual. When it tells you to pull the fuses, depress the switch on the 'tow' side instead. Be sure to complete the rest of the steps necessary to put your vehicle in 'tow' mode.

2. To put the vehicle into 'drive' mode, follow all the instructions in your vehicle owner's manual. When it tells you to replace the fuse, depress the switch on the 'drive' side instead. Be sure to complete the rest of the steps necessary to put your vehicle in 'drive' mode.