BX88294
2 Circuit ATC/ATO Fuse ByPass Switch Installation Instructions



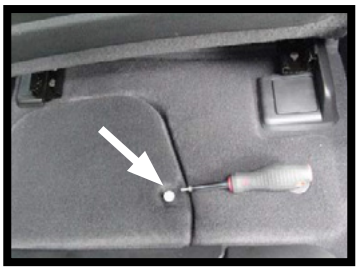
ALWAYS match the amperage of the fuse in the Fuse ByPass Switch harness to the fuse removed from the fuse panel.

NEVER install a fuse with more than a 20 amp rating in the Fuse ByPass Switch harness.

REMOVE any fuse from the Fuse ByPass Switch harness.

BEFORE YOU BEGIN: Consult the Owner's Manual for the towed vehicle to determine which fuse(s) must be removed from the "towed" vehicle and their location. Most vehicles will require another Fuse ByPass Switch to be installed under the hood. Confirm that the silver pins on the Fuse ByPass Switch wires match the pin sizes on the fuses you are required to remove. You must have the correct fuse wire ends for the fuse holder in the tow vehicle. The Fuse ByPass Switch is designed to control two (2) ATC/ATO blade fuses found in the wiring located under the passenger rear floor area in the battery compartment.

The Fuse ByPass Switch is designed to be mounted in the upper rear of the floor console beside the power outlet. If the vehicle is equipped with the optional audio/video connections, then the switch should be mounted below these connectors on the rear panel of the console. The wiring will flow down behind the console rear panel, then fed under the floor carpet to the under floor battery compartment and make connection with the two fuse holders found in the wiring.



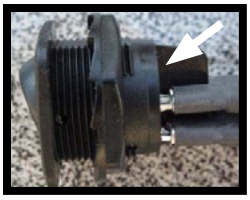
1. Remove the battery compartment cover using a T20 Torx to loosen (but do not remove) the screw, then lift the side where the screw is and pull the cover towards the outside of the car. You may find that removing the plastic floor panels closer to the rear seat in this area will allow easier removal of the cover. Those panels are in sections and can be carefully pried up to give the required access.
2. Locate the two (2) fuses which will be taped onto the red battery cable. Remove these fuses noting which fuse fits in which holder (if they are not the same color and rating).



3. Next remove the bezel surrounding the power outlet. Pry it out carefully by gripping around the edges and pulling straight back until the retaining clips release.
4. Remove the rear panel of the console using your fingers at the bottom and sides where the side panels meet the rear panel and carefully pull out the panel. The rear panel is attached by push pins near the top and bottom on the side panels. The upper corners also have tabs that fit under the top section of the console. Gently pry until the rear panel comes loose and disengage the upper tabs to remove completely remove the panel.



5. Select a location (typically in the middle of the power outlet panel) and carefully drill a ¾" diameter hole in the plastic panel using a flat power auger. Avoid drilling into or damaging any nearby wiring. Ensure that you can reach the back of the Fuse ByPass Switch to install the mounting nut and to reattach the wires. If the vehicle has the optional audio/video connectors then the switch can be mounted on the rear panel below these connectors. You will need to remove a small portion of the sound deadening material to clear a space for the switch.
6. Remove the four (4) wires from the switch by carefully and firmly pulling on the each connector one at a time. Note: The wiring is in two (2) pairs.



7. Place the switch in the drilled hole, with the four (4) terminals at the bottom and the blank space on the rear of the switch at the top, to properly orientate it. Install the mounting nut with the serrated side towards the panel and hand tighten it. Note: When the switch is in the OFF position, the bottom of the switch button is depressed as shown.
8. **Do Not** connect the wiring to the fuse holders until this step is completed. Feed the switch end of the wire under the carpet from the battery compartment so that it exits under the console where the carpet has an opening. Carefully pull the wiring though the opening to provide enough length to make the connections to the switch.

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9. Re-attach the wires to the switch by sliding the connectors over the terminals on the switch. On Fuse ByPass Switch keep the connections in pairs on each side of the rear divider bar of the switch. Do not reinstall the rear panel until you have tested the operation of the Fuse ByPass Switch.



10. In the Battery Box: Note that one (1) of the two (2) sets of wires is longer than the other. This pair of wires should be installed into the GM fuse holder farthest away by inserting each terminal into the fuse holder connector one at a time. The other pair of wires fits the closer one. Install the connector from each pair of wires into the two (2) fuse holders from which you removed the fuses in the “towed vehicle”. Press in on the pins until fully seated. Note that the black wires are one circuit connected to the lower fuse holder in the Fuse ByPass Switch harness and the red wires are connected to the upper fuse holder.
11. Install the fuses into the appropriate fuse holders on the Fuse ByPass Switch harness.



12. Test the Fuse ByPass Switch as noted below and if it tests OK, then reinstall the rear panel of the console by pushing the retainers back into their locations. Ensure that the upper tabs fit under the top before fully locking the panel in place. Reinstall the bezel around the power outlet (and A/V connections), ensuring the tabs on the bottom are inserted into the rear panel before pressing the upper portion into the clips. Ensure that all removed panels are properly reinstalled and the battery cover is slid back under the center portion of the car floor and then the retaining screw is tightened. Reinstall the rear floor panels.

    Testing: When the Fuse ByPass Switch button is depressed in upper direction the fuses are “ON”. This is the “Driving the towed” position. When the button is depressed in the opposite direction (the bottom), the fuses are “OFF”; this is the position for “Towing”. Confirm that the switch operation is as described.

Troubleshooting - Fuse ByPass fails to operate

- Insure that the pins are fully seated in the correct position in the Fuse Panel and not touching each other
- Make sure that the wiring is properly connected to the back of the switch
- Insure that there is a fuse (and it is not blown) in the Fuse ByPass harness and that the fuse is properly installed in the fuse holder in the harness

NOTICE: Installation of the Fuse ByPass Switch is strictly at the user’s risk. Blue Ox® assumes no liability for any damage or any liability in any way for the proper or improper use or installation of this product. The Buyer acknowledges that the Fuse ByPass is supplied as a convenience item to the RVer, who accepts full responsibility for any damages and all liability for any claims including any warranty claims that may be considered voided by the manufacturer.