



**BLUE OX®**

**BX88274**

## High Current 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 50 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 must be removed from the "towed" vehicle's



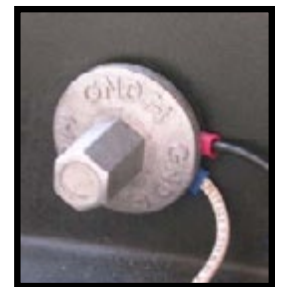
under hood fuse box. Remove the large plastic fuse box cover and remove the high amperage (e.g. 50 amp) fuse. Confirm that the colored connectors on the Fuse ByPass Switch wire (or adapter if supplied) match the pin sizes in the fuse box location from where you removed the fuse. If your manual requires that you remove another mini fuse, typically the 15 amp ECM fuse, you will need an additional mini version of the Fuse ByPass Switch.



Note: A small 5/8" access hole will be drilled into the fuse box cover to complete the installation. It is recommended that you follow the steps below prior to drilling the access hole.

1. Install the adapter, if supplied. Use a test light or multi-meter set to read 20 volts DC in order to determine which of the two (2) pins in the fuse box has 12 volts present. Connect the multi-meter probe or the clip connector from the test light to a suitable ground connection. Probe the two (2) terminals with the probe to find the one that shows 12 volts or lights the test light when the probe is touched to the fuse box terminals. Install the red connector on the Fuse ByPass Switch onto the 12 volt terminal identified. It is often the one closest to the passenger compartment. Install the remaining blue connector onto the other terminal in the fuse box.

2. Using a portable drill with a Phillips head screwdriver bit, install the ring connector from the small black fuse holder wire using the supplied self drilling screw. Locate this screw on the inner fender area close to the fuse panel so that when installed there is sufficient wire to lay the Fuse ByPass Switch in a convenient location near the fuse panel. An alternative is to loosen the large ground stud to the left of the fuse box and fully insert the terminal under the ring as shown in the photo, then securely tighten to retain the ring terminal.



3. Reinstall the 2 amp fuse into the small black fuse holder.
4. Install the larger high current (e.g. 50 amp) fuse into the larger rubber fuse holder in the Fuse ByPass Switch harness. Gently press it into place and insure it is fully seated. Cover it with the supplied rubber cap.





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Test the Fuse ByPass Switch by checking that when the button on the top of the Fuse ByPass Switch is in the **drive** position that the car dash lights and functions operate the same as they did before.



With the car engine and key turned fully off, flip the Fuse ByPass Switch to the **tow** position.

All lights and operations that are controlled by the fuse in this circuit should be off. This mimics the fuse being removed from the fuse panel when towing. If the Fuse ByPass Switch operates as expected, continue, if not, please reference the Troubleshooting section.

5. Remove the Fuse ByPass Switch connectors and adapter if supplied, from the fuse box. Note which terminal the red connector was installed in.
6. Select one of the methods below to route the wiring out of the fuse panel.

### Method A

- a. Measure from the end of the fuse panel to the center over the removed fuse terminals. Write down the dimensions.
- b. Measure from the side of the fuse panel to the same location over the removed fuse terminals and write down the dimension.
- c. Properly orient the fuse panel cover over the fuse panel and mark the two dimensions on the cover of the fuse panel.
- d. Drill a 5/8" hole at the intersection of these dimensions use a flat power auger.



### Method B

- a. Alternatively drill a 5/8" hole at the top, left corner of the cover using a flat power auger.
7. Feed the Fuse ByPass Switch terminals through the hole insuring that the black loom extends from the hole.
  8. Reinstall the connectors and replace the cover making sure it locks on using the plastic tabs.
  9. If a Mini Fuse ByPass Switch must be installed, it should be located at the lower, center of the top cover. Reference the dotted lines in the images shown above.



Note: this requires a 3/4" hole and the drive position has the white dot side of the switch depressed when driving the vehicle and the tow position has the black (unmarked side) depressed when towing. This is opposite of the High Current Fuse ByPass Switch. Install the labels supplied with the white dot on the switch matched to the drive label.



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10. Find a suitable location next to the fuse box to move the Fuse ByPass Switch using the hook and loop material supplied. Wipe the side of the Fuse ByPass Switch with an alcohol swab and clean the mounting area well.
11. A small amount of silicone seal, not supplied, may be placed around the loom hole to reduce the chance of water entering the fuse box.

### TROUBLESHOOTING

If the Fuse ByPass Switch fails to operate:

- Be sure you have the correct fuse to remove in the towed vehicle's fuse box
- Verify the connectors are fully seated in the correct position and properly connected to the adapter, if supplied, in the fuse panel and that they are not touching each other. If they are reversed the Fuse ByPass Switch will not function
- Make sure the correct fuse is correctly installed in each fuse holder that neither fuse is blown
- Check to see if the small black wire is properly grounded to the vehicle body