

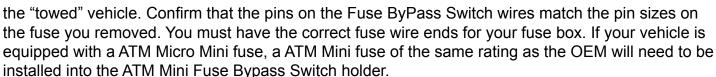
BX88271 BLUE OX® ATM Mini Fuse ByPass Switch **Installation Instructions**

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 must be removed from



1. Install the two (2) small wire pins into the fuse panel location from where you removed the fuse in the "towed". Press in on the pins until fully seated.

Note: On Honda vehicles you will need to press the wire pins to the outside edges of the fuse opening since these panels have the connectors on the sides of the opening, not at the bottom. Insure that fuse panel cover can be replaced. If necessary use wire ties (not supplied) to hold the wiring firmly in place insuring a firm physical and electrical connection.

2. Find a suitable location on a plastic surface (1/4" thick or less) next to the fuse box to mount the Fuse ByPass. It is highly recommend that installation is on the outer, removable panel used to access the fuse panel.

Confirm that there is ample space for the switch and that there is no metal behind the area you have chosen. Be sure that you can reach the back of the Fuse ByPass in order to install the mounting nut and to reattach the wires.

Note: On 2007 Honda CRV's, the switch might be mounted on the side of the dash area coin holder; on newer CRV's install the Fuse ByPass on the lower dash tray.

- 3. Carefully drill a 3/4" diameter hole into the plastic panel using a flat power auger. Avoid drilling into or damaging any nearby wiring.
- 4. Remove the 2 wires from the switch by carefully and firmly pulling on the connectors one at a time.
- 5. Place the switch into the hole, install the mounting nut with the serrated side towards the panel and hand tighten it.
- 6. Reattach the wires to the switch by sliding the connectors over the terminals on the switch.
- 7. Slide the black split loom over the wiring connections and if necessary, secure with electrical tape.
- 8. Tape the wiring if there is any exposed metal in the immediate area of the switch.



BX88271 BLUE OX® ATM Mini Fuse ByPass Switch Installation Instructions

9. Install the "towed's" removed fuse into the fuse holder in the Fuse ByPass harness.

Note: For Honda vehicles you will need to buy an ATM fuse of the same rating (color) as the original equipment fuse. Insure that the fuse pins are directly placed into the holder's terminals.

When the Fuse ByPass Button is depressed in the direction of the white dot (on single circuit versions) the fuse is "ON". This is the "driving the towed" position. When the button is pressed in the opposite direction, the fuse is "OFF" and 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.

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BX88272Mini Fuse ByPass Switch

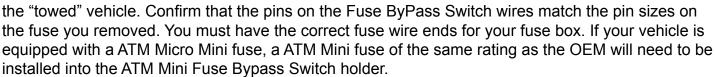
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ALWAYS match the amperage of the fuse in the Fuse ByPass Switch harness to the fuse removed from the fuse panel.

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 must be removed from



1. Install the two (2) small wire pins into the fuse panel location from where you removed the fuse in the "towed". Press in on the pins until fully seated.

Note: On Honda vehicles you will need to press the wire pins to the outside edges of the fuse opening since these panels have the connectors on the sides of the opening, not at the bottom. Insure that fuse panel cover can be replaced. If necessary use wire ties (not supplied) to hold the wiring firmly in place insuring a firm physical and electrical connection.

2. Find a suitable location on a plastic surface (1/4" thick or less) next to the fuse box to mount the Fuse ByPass. It is highly recommend that installation is on the outer, removable panel used to access the fuse panel.

Confirm that there is ample space for the switch and that there is no metal behind the area you have chosen. Be sure that you can reach the back of the Fuse ByPass in order to install the mounting nut and to reattach the wires.

Note: On 2007 Honda CRV's, the switch might be mounted on the side of the dash area coin holder; on newer CRV's install the Fuse ByPass on the lower dash tray.

- 3. Carefully drill a 3/4" diameter hole into the plastic panel using a flat power auger. Avoid drilling into or damaging any nearby wiring.
- 4. Remove the 2 wires from the switch by carefully and firmly pulling on the connectors one at a time.
- 5. Place the switch into the hole, install the mounting nut with the serrated side towards the panel and hand tighten it.
- 6. Reattach the wires to the switch by sliding the connectors over the terminals on the switch.
- 7. Slide the black split loom over the wiring connections and if necessary, secure with electrical tape.
- 8. Tape the wiring if there is any exposed metal in the immediate area of the switch.



Mini Fuse ByPass Switch Installation Instructions

9. Install the "towed's" removed fuse into the fuse holder in the Fuse ByPass harness.

Note: For Honda vehicles you will need to buy a fuse of the same rating (color) as the original equipment fuse. Insure that the fuse pins are directly placed into the holder's terminals.

When the Fuse ByPass Button is depressed in the direction of the white dot (on single circuit versions) the fuse is "ON". This is the "driving the towed" position. When the button is pressed in the opposite direction, the fuse is "OFF" and this is the position for "Towing". Confirm that the switch operation is as described.

Troubleshooting - Fuse ByPass fails to operate

- Ensure 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
- If a dead battery situation is occurring, contact your vehicle's manufacturer to see what circuits are live when the key is in the towing position.

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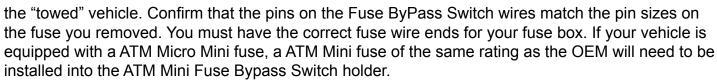
BX88273 2 ATM Fuse ByPass Switch Installation Instructions

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 must be removed from



Follow each of the steps below for each circuit:

1. Install the two (2) small wire pins of one (1) pair of wires into the fuse panel location from where you removed the fuse in the "towed". Press in on the pins until fully seated. (There is a "Red" pair and "Black" pair of wires indicated by the color of heatshrink at the pin ends)

Note: On Honda vehicles you will need to press the wire pins to the outside edges of the fuse opening since these panels have the connectors on the sides of the opening, not at the bottom. Insure that fuse panel cover can be replaced. If necessary use wire ties (not supplied) to hold the wiring firmly in place insuring a firm physical and electrical connection.

2. Find a suitable location on a plastic surface (1/4" thick or less) next to the fuse box to mount the Fuse ByPass. It is highly recommend that installation is on the outer, removable panel used to access the fuse panel.

Confirm that there is ample space for the switch and that there is no metal behind the area you have chosen. Be sure that you can reach the back of the Fuse ByPass in order to install the mounting nut and to reattach the wires.

Note: On 2007 Honda CRV's, the switch might be mounted on the side of the dash area coin holder; on newer CRV's install the Fuse ByPass on the lower dash tray.

- 3. Carefully drill a 3/4" diameter hole into the plastic panel using a flat power auger. Avoid drilling into or damaging any nearby wiring.
- 4. Remove the 4 wires from the switch by carefully and firmly pulling on the connectors one at a time.
- 5. Place the switch into the hole, install the mounting nut with the serrated side towards the panel and hand tighten it.
- 6. Reattach the wires to the switch by sliding the connectors over the terminals on the switch.
- 7. Slide the black split loom over the wiring connections and if necessary, secure with electrical tape.



BX88273 2 ATM Fuse ByPass Switch Installation Instructions

- 8. Tape the wiring if there is any exposed metal in the immediate area of the switch.
- 9. Install the "towed's" removed fuse into the fuse holder in the Fuse ByPass harness.

Note: For Honda vehicles you will need to buy a fuse of the same rating (color) as the original equipment fuse. Insure that the fuse pins are directly placed into the holder's terminals.

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
- If a dead battery situation is occurring, contact your vehicle's manufacturer to see what circuits are live when the key is in the towing position.

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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 mutli-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.

- 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.



BLUE OX High Current Fuse ByPass Switch Installation Instructions

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.

- Remove the Fuse ByPass Switch connectors and adapter if supplied, from the fuse box. Note which terminal the red connector was installed in.
- 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.





BLUE OX° High Current Fuse ByPass Switch Installation Instructions

- 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 swap 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

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BLUE OX® 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.

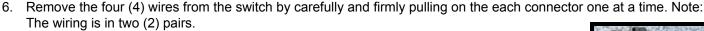
BEFORE YOU BEGIN: Consult the Owner's Manual for the towed vehicle to determine which fuse(s) must be removed from the "towed" vehicle and their location. Most vehicles will require another Fuse ByPass Switch to be installed under the hood. Confirm that the silver pins on the Fuse ByPass Switch wires



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.

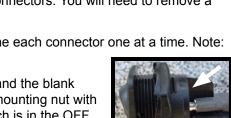
- Remove the battery compartment cover using a T20 Torx to loosen (but do not remove) the screw, then lift the side where the screw is and pull the cover towards the outside of the car. You may find that removing the plastic floor panels closer to the rear seat in this area will allow easier removal 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.
- 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 34" 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.



- 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.
- 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.









2 Circuit ATC/ATO Fuse ByPass Switch Installation Instructions

- 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

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