

INERTIA ACTIVATED FUEL PUMP CUT-OFF SWITCH FCS1

Installation Instructions First Inertia Switch (FIS) Fuel Pump Cut-Off Switch

Contents: Inertia Switch, Installation Kit (with wired connector and hardware), Installation Instructions.

IMPORTANT!

PLEASE READ ALL WARNINGS AND INSTRUCTIONS BEFORE INSTALLING THE INERTIA SWITCH.

The inertia Switch is a device intended to automatically shut off the supply of fuel to the engine following a heavy impact collision, thereby helping reduce the risk of fire.

WARNING!

- The Inertia Switch and Warning Decal must be installed strictly in accordance with these instructions.
- Improper installation of the Inertia Switch may cause inadvertent triggering, thereby cutting off the fuel supply and causing the vehicle to stall.
- **Turn the engine off and disconnect the battery before installation. Failure to do so may result in electric shock and property damage or personal injury to you or others.**

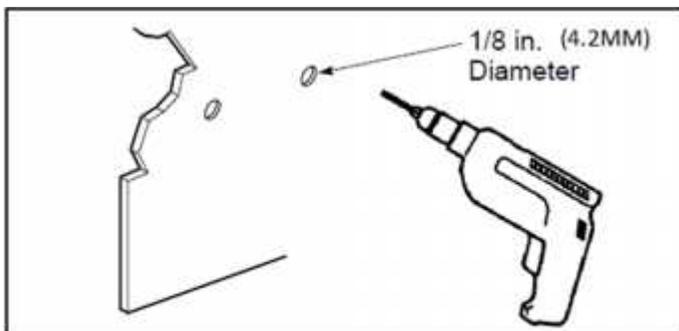


Diagram A

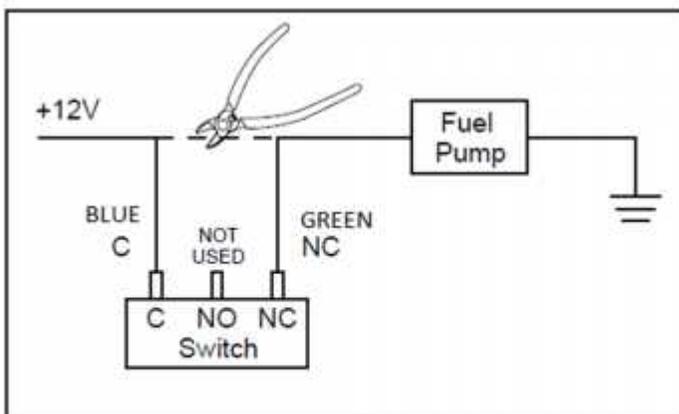


Diagram B

INSTALLATION INSTRUCTIONS:

1. Locate a suitable **rigid** steel body panel where the Inertia Switch can be mounted **vertically**, preferably near the joining of two panels. The switch should not be mounted in the middle of a large panel. *The switch should be installed in a place where it will be safe from impact from loose objects, e.g. luggage, tools, etc.

Insure there is sufficient space for access to the connector and for resetting the switch after it has been installed.

***NOTE: If the mounting is not rigid, the Inertia Switch may be inadvertently triggered by high vibration levels transmitted through the panel, during normal operation of the vehicle over bumpy terrain, etc.**

2. The place of installation should be away from a location where liquid may spill or water may spray or collect. Suitable locations for installation include the trunk, passenger compartment or engine compartment, although an installation position in the passenger compartment is preferred where the switch is easily accessible for resetting.

CAUTION! While installation in the trunk or engine compartment is permissible, installation of the switch in the passenger compartment is recommended. A passenger compartment location facilitates reset of the switch and helps avoid exposure by eliminating the necessity of exiting the vehicle.

3. Using the switch as a template, drill two holes using a 4.2mm (1/8 ") diameter drill BIT (See Diagram A) in the chosen location. **Do not assemble the switch at this time.**

4. Locate the wiring to the fuel pump.

5. Select the live wire from the battery/ignition to the fuel pump.

6. Insure that the ignition is off and the battery is disconnected. Cut the wire to the fuel pump in a suitable location and strip both ends of the wire (approx. 5mm (1/4")).

7. Remove the switch connector from the kit and identify the green and blue wires.

8. Using the connectors provided, join the blue and green wires to the previously cut and stripped fuel pump wire as shown in Diagram B. A correctly calibrated crimp tool should be used for this operation.

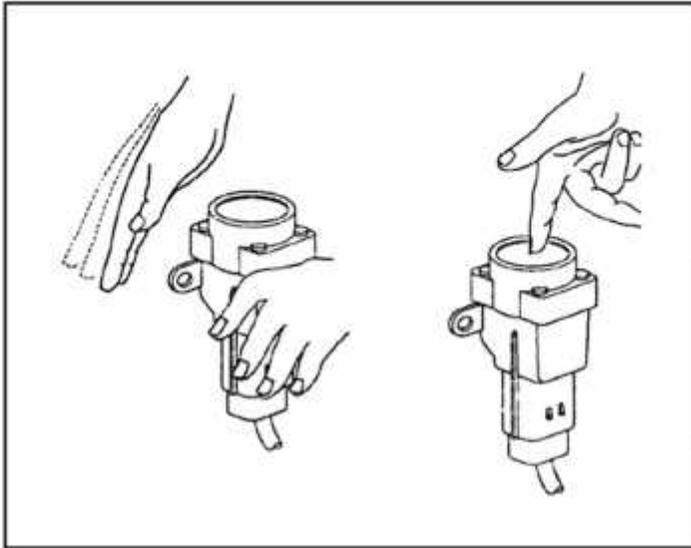


Diagram C

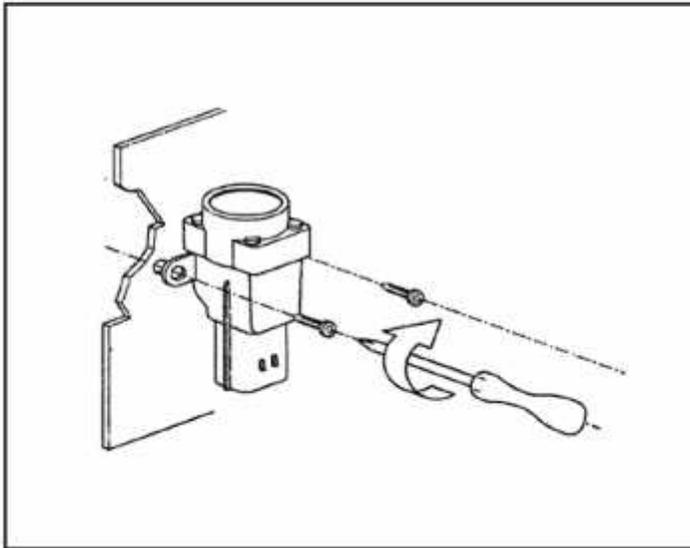


Diagram D

The manufacturers and distributors of the Inertia Switch disclaim responsibility and/or liability for a malfunction of the switch caused by incorrect installation, misuse or abuse of the switch.

THE MANUFACTURERS AND DISTRIBUTORS OF THE INERTIA SWITCH EXPRESSLY DISCLAIM ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF PURPOSE, as permitted by some state laws. The exclusive remedy of the buyer or user of the Inertia Switch in the event of failure of the switch is repayment of the purchase price. Consequential, incidental, or other special damages are expressly excluded.

Model Covered:FCS1

9. To test the switch function, hold the switch in one hand and push the connector firmly into the socket.

NOTE: The connector is designed to fit in one way only and must not be subjected to undue force.

10. Insure that the switch is set by pushing downward on top of the switch.

11. Once the switch has been installed, reconnect the battery and start the engine.

NOTE: If the engine fails to start, remove the ignition key, disconnect the battery and check the electrical continuity between the NC (Green) and C (Blue) wires. (Return to step 8 and see Diagram B).

12. Holding the switch upright in one hand, strike it sharply with the other hand. The switch should operate and the engine should stop. Reset the switch and repeat the test.

NOTE: If the switch is used on vehicles with carbureted engines, the fuel pump will stop but the engine will not stop until the fuel in the carburetor reservoir is used up.

13. If the engine does not stop during this test, turn off the engine, disconnect the battery and check that the installation procedure has been followed correctly.

14. If the engine does stop during the test, the switch can now be installed in the location selected previously.

15. Insure that the engine ignition is in the off position and that the battery is disconnected. Using the screws provided, install the Inertia Switch in position and tighten the screws firmly to a torque of 26 in./lbs.

16. Reconnect the battery and start the engine.

17. With a rubber mallet, hit the panel **alongside** the switch. **The switch must not operate during this test.** If the switch does operate, the switch should be reinstalled in a more rigid location.

18. Further testing on the installation and positioning of the switch can be carried out by slamming doors, slamming the trunk lid, slamming the hood, etc., and driving over a rough road or speed control bumps. The switch should not be triggered during any of these tests.

19. If the engine does not start after installation, do the following:

- A. Turn the key in the ignition to the off position.
- B. Disconnect the battery
- C. Check under the vehicle for leaking fuel.
- D. If you do see or smell fuel, go through the installation instructions again and test for correct operation. **If you do see or smell fuel, do not start the engine again.** Identify the source of the fuel leak or contact the fire department or a mechanic for assistance.

20. Install the Warning Decal in a readily visible location, such as the driver's side door jamb, instrument panel or steering column.