

Energy and Water Solutions

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DIEL

CNG Basic EFI Change Over Switch Owners Manual Model CNGBCM

General Description

This Change Over Switch has been designed especially for use in CNG equipment installed in vehicles with EFI (Electronic Fuel Injection).

The main characteristics are:

- Engine starts with gasoline fuel and automatically changes to CNG when the engine reaches the set RPM level.
- Emergency Starting in CNG mode.
- Setting RPM change to CNG.
- CNG level gauge with reserve

Electrical Characteristics

Voltage: 12 VDC.

Max switch current: 10 A

Protection fuse: 5A

Max consumption: 15W

Switch Key: 1,000,000 operations

Packaging

Control Unit

Pressure Manometer with Sensor

Wire Harness

Insulating Cases and Terminals

Mounting Screws

5 Amp Fuse

Owners Manual

Operation

In CNG mode the vehicle will start with gasoline and the fuel will be change to CNG once the set RPM level set by the installer is reached. The gasoline fuel gauge (yellow led) remains on and the level gauge of CNG blinks until changed to the CNG mode.

The CNG mode will be maintained until the switch is pushed to change to gasoline or the ignition is turned off.

Fuel Change

Push the switch while the engine is running anytime you want to make a fuel change.

Caution: Changing fuel while the engine is at low RPMs may cause the engine to stall.

Emergency Operation

This Switch has an emergency start function on CNG in case of a malfunction of the gasoline injection system.

The following steps must be done to start the engine on CNG:

1. With the ignition off, push and hold the switch.
2. Turn the ignition switch to the on position and release the switch as soon as the yellow LED begins to blink.
3. Start the engine and verify the engine is running in the CNG mode.

Note: This emergency state will be permanent until the gasoline mode is selected.

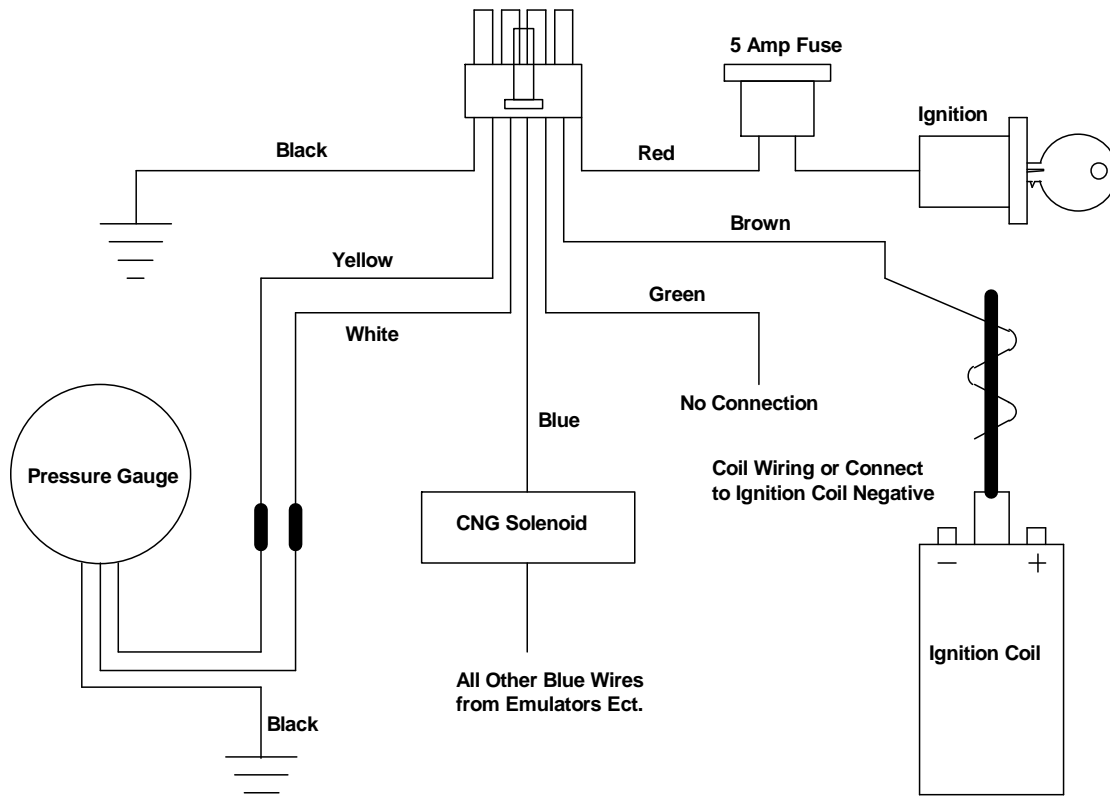
Programming the Fuel Change RPM Setting:

Due to the different kinds of ignitions, the RPM setting must be programmed for each vehicle.

1. With the ignition off, push and hold the switch.
2. Turn the ignition switch to the on position and do not release the switch until the red LED comes on.
3. Start the engine and maintain the engine at the desired RPMs. 2,000 RPMs is the recommend setting.
4. Push the switch while the engine is running at the desired RPMs and the red LED will turn off.
5. Turn the engine off.
6. Start the engine and verify the change over RPMs.

Wiring Diagram

Read and follow your CNG Kit Instructions before wiring.



Do not call your dealer or EWS with installation questions unless you are sure there is a problem with your conversion kit. It is your responsibility to install your kit. Call a friend for help or take your car to a repair shop for help if needed.