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For Alternate Fuels

Installation Instructions

GM INJECTOR SIMULATOR PN4115

APPLICATIONS				
YEAR	OBD	MODELS	ENGINES	COMMENTS
1999	II	C, K, S, Sonoma, & Silverado Series trucks, Lumina	2.2, 2.5, 4.8, 5.3 6.0L 3.1, 3.8L	w/Sequential Fuel Injection & two 80 pin PCM connectors.

FEATURES & THEORY OF OPERATION

INJECTOR DIAGNOSTIC INTERFACE

The **GM INJECTOR SIMULATOR PN4115** prevents the OEM computer from illuminating the Service Engine Soon/Malfunction Indicator Lamp (MIL) when the injectors are shut off for alternate fuel operation. The **PN4115** does this by simulating the correct load in place of the OEM injectors.

INJECTOR POWER CONTROL

The **GM INJECTOR SIMULATOR PN4115** interrupts the power (+12V) to the OEM injector for alternate fuel operation and allows power to be applied for gasoline operation. This function can be controlled by providing power to the Pink wire through a Dual Curve GM Integrated Processor, or through a fuel select switch. Injector power control extends the life of the gasoline fuel injectors for dual fuel applications.

PARTS INCLUDED IN THIS KIT				
Qty.	Description	Part No.	Page ref.	Figure
1	Injector Simulator	4115	3	1
1	Instruction Manual	FRM20253		
1	Tubing, Split Convolutud	N/A		
1	Parts Bag	N/A		
3	Sheet Metal Screws	N/A		
10	Heatshrink Tubes	N/A		
8	Heatshrink Caps	N/A		

TOOLS REQUIRED

- Soldering Iron
- Rosin core solder
- Heating Device (Heat Gun or Small Butane Torch)
- Wire Strippers & Cutters
- Drill
- Drill bit #36 (.106") or smaller.
- Screwdriver, Phillips

PRECAUTIONARY STATEMENTS

These instructions are to be thoroughly read and understood prior to starting installation. Failure to read and follow these instructions thoroughly may result in improper vehicle operation, may lead to personal injury or property damage, and will void warranty coverage. (See Warranty Policy on back of instructions.)



WARNINGS:

This installation is to be done only by technicians licensed/certified to work on alternate fuel conversions.



Always test the vehicle for proper operation on Gasoline before starting installation.

Always disconnect the Negative (-) Battery cable before working on any wiring.



DO NOT mount components, nor route wires, on/or near the exhaust manifold, or any moving parts.

SECTION I MOUNTING THE INJECTOR SIMULATOR



STEP 1: MOUNTING THE PN4115

CAUTION: DO NOT mount the Injector Simulator near the exhaust manifold, spark plug wires, ignition coil(s), or any moving parts.

- A. Locate an adequate space on the upper portion of the fire wall to fit the **PN4115**.
- B. Use the **PN4115** to mark the mounting hole spaces on the firewall.
- C. Drill three holes accordingly. Use a #36 (.106") or smaller bit.
- D. Mount the **PN4115** with the three sheet metal screws provided.
- E. Route the **PN4115 long RED and Orange wires** to the OEM injectors to ensure sufficient length is available.

SECTION II WIRING THE INJECTOR SIMULATOR

(See Figure 1)

STEP 2: IGNITION (+12V) FROM THE PN4115 TO THE PN5928

- Solder the **PN4115 short RED wire** to the **PN5928 RED wire**.

STEP 3: IGNITION (+12V) TO THE PN4115 ON GASOLINE

- Solder the **PN4115 short PINK wire** to the **PN5928 PINK wire**.

STEP 4: IGNITION (+12V) KEY ON

- A. Locate the **OEM Injector PINK wires** on each injector connectors.
- B. Cut the **OEM Injector PINK wires** approximately 3 - 4" from each injector.
- C. Solder the **PN4115 long RED wire** to **harness side of the cut on any accessible OEM Injector PINK wire**.

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Limited Warranty

Autotronic Controls Corporation warrants this product to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.