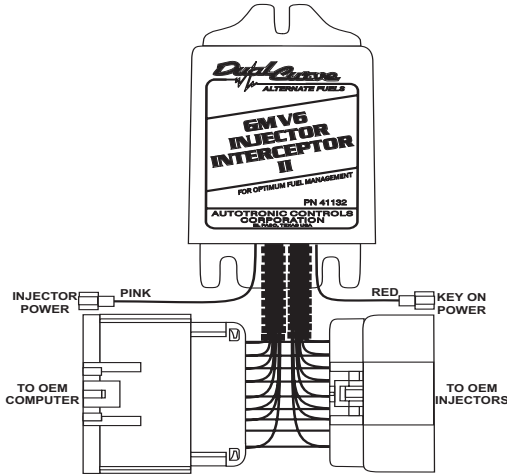




" We Put The Quality In Conversions"
 Visit: www.dualcurve.com

For Alternate Fuels

GM V6 INJECTOR INTERCEPTOR II PN41132



Installation Instructions

APPLICATIONS		
Years	Models	Engines with 16pin Injector Connector
2000-2001	Cars & Mini-vans	3.1, & 3.4L

FEATURES

- PREVENTS FALSE INJECTOR CODES
- INJECTOR POWER INTERRUPT
- OEM MATING CONNECTORS
- WEATHER & VIBRATION PROOF PACKAGING

THEORY OF OPERATION

The *GM INJECTOR INTERCEPTOR II PN41132* will prevent false injector codes on alternate fuel operation by

providing the correct injector load to the OEM computer. This is done by intercepting the OEM injector power during alternate fuel operation and using this power to activate the *INTERCEPTOR II* injector load simulation. On gasoline operation, the OEM injector power is reapplied to the OEM injectors. Gasoline mode is detected when key on power is applied to the Pink wire. In alternate fuel mode, the Pink wire will reflect the injector simulation voltage.

Injector load simulation, injector power interruption, and installation time are greatly simplified with the use of mating OEM injector harness connectors. All these features are compactly packaged in a weather and vibration proof epoxy seal.

PARTS INCLUDED IN THIS KIT:			
Qty.	Description	Figure	Page
1	Electronic Control Unit	2	3
1	Instruction Manual	N/A	N/A
1	Parts Bag Includes:	N/A	N/A
3	8-15x.750 Sheet Metal Screws	N/A	N/A
1	Connector Position Assurance	2	3
1	Insulated Female Fast-On	2	3
1	Insulated Male Fast-On	2	3
3	Wire-Tie-Beaded 5"	N/A	N/A

TOOLS REQUIRED

#31 Drill Bit (.120)
Phillips Screwdriver

PRECAUTIONARY STATEMENT

Be sure to read, understand, and follow these instructions thoroughly before 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 may void warranty coverage. (See Warranty notice on back of instructions)



WARNINGS

- This installation is to be done only by technicians licensed or certified to work on alternate fuel conversions.
- Always test the vehicle for proper operation on Gasoline before beginning installation.
- Always disconnect Negative (-) Battery cable before working on any wiring

SECTION I HARDWARE INSTALLATION



CAUTION: DO NOT MOUNT COMPONENTS OR WIRES NEAR THE EXHAUST MANIFOLD, OR MOVING PARTS.

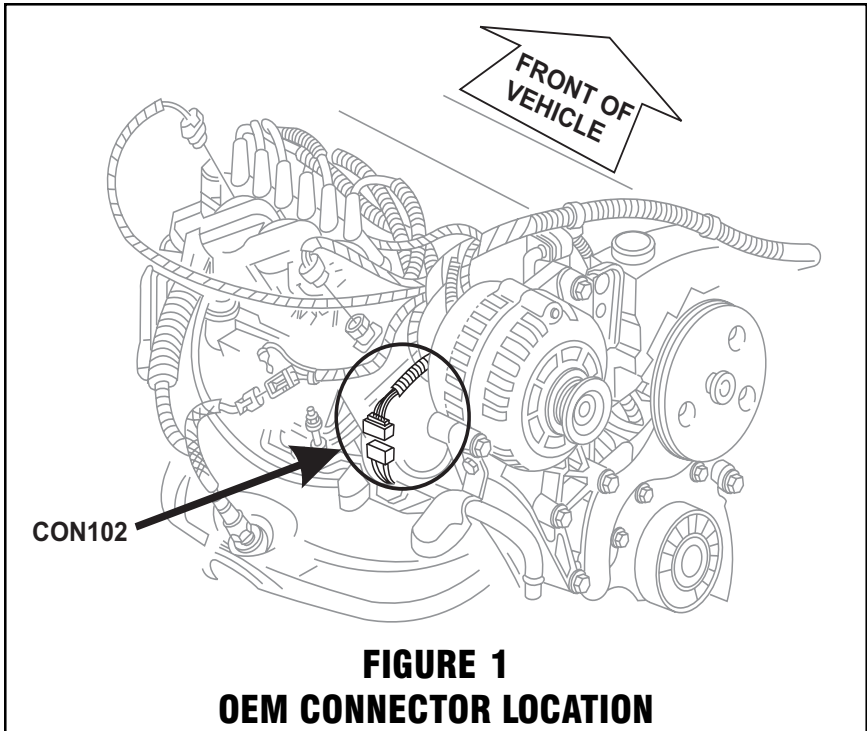
STEP 1: MOUNTING THE PN41132

- Locate the OEM INJECTOR Harness Connector near the alternator (**CON102 - SEE FIGURE 1**).
- Locate an adequate flat area to mount the PN41132.



NOTE: Do not stretch wires when mounting unit.
Choose a mounting location to allow wires to flex adequately for engine movement.

- C.** Use the unit to mark the three mounting drill holes.
- D.** Drill three holes to mount the unit with a #31 (.120") drill bit. Use the screws provided to mount the controller.



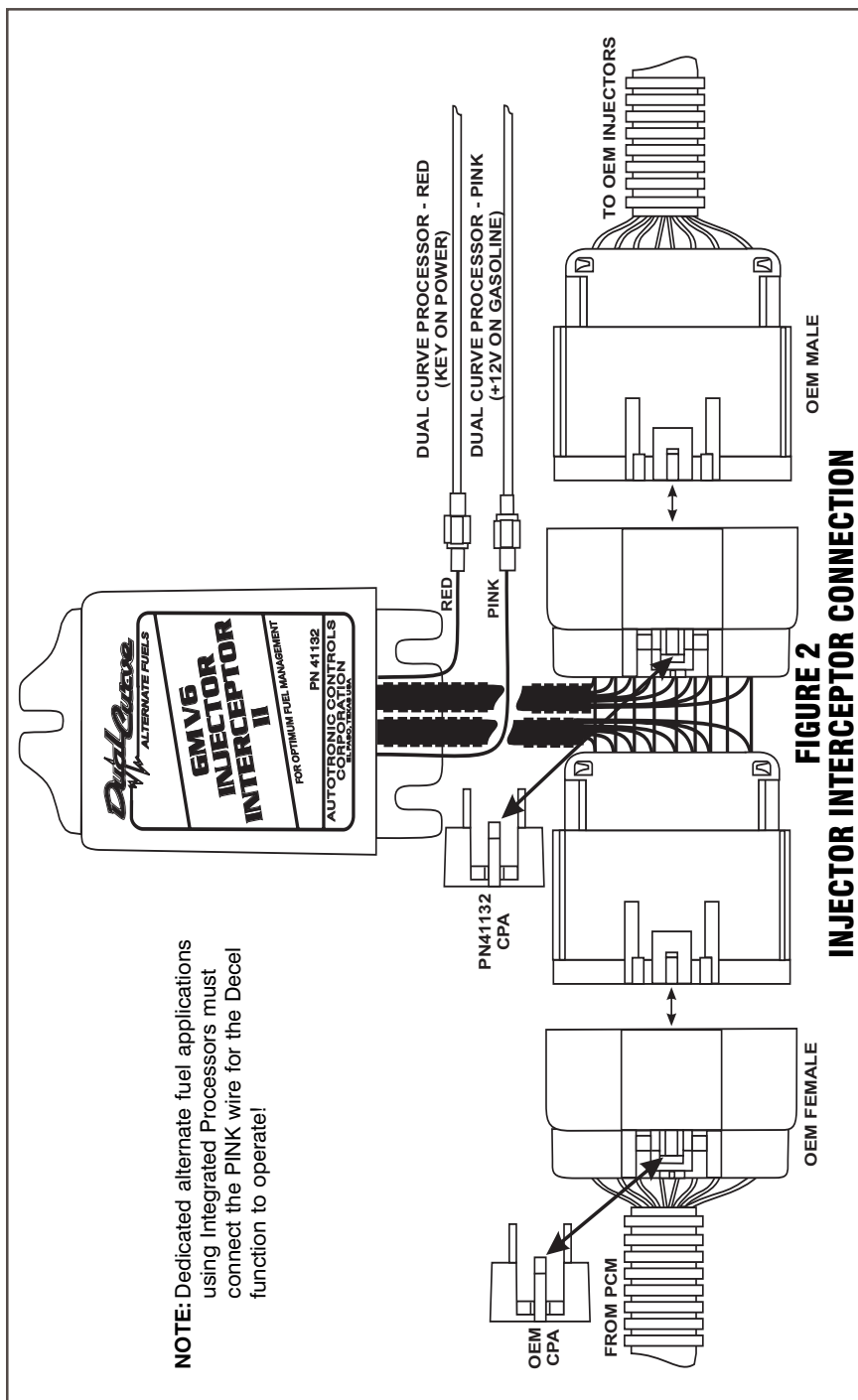
SECTION II WIRING INSTALLATION



CAUTION: DISCONNECT THE NEGATIVE (-) BATTERY CABLE BEFORE WORKING ON ANY WIRING!

STEP 2: WIRING THE INJECTOR INTERCEPTOR II (See Figure 2 on Page 4)

- A.** Remove the OEM CPA from the OEM Injector Harness Connector.
- B.** Disconnect the mating OEM Injector Harness Connector.
- C.** Connect the **PN41132** connectors in between the OEM Injector Harness mating connectors.
- D.** Install both the **OEM CPA** and **PN41132 CPA**.



STEP 3: KEY-ON POWER - RED

- A.** Connect the PN41132 RED WIRE to the Integrated Processor RED IGNITION/KEY ON POWER WIRE.



NOTE: Dual fuel applications without Integrated Processors must connect the RED wire to a KEY ON POWER SOURCE.

STEP 4: INJECTOR POWER INTERRUPT - PINK

- A.** Connect the PN41132 PINK wire to the Integrated Processor PINK - INJECTOR POWER wire or 12.0V on gasoline.



NOTE:

- Dedicated alternate fuel applications using Integrated Processors must connect the PINK wire for the Decel function to operate!
- Dedicated alternate fuel applications without Integrated Processors cut and seal PINK wire.
- Dual fuel applications without Integrated Processors apply KEY ON POWER to the PINK wire on gasoline only.

SECTION III - OPERATIONAL TEST & SET UP PROCEDURE**STEP 5: GASOLINE OPERATION**

- A.** Set the fuel select switch to Gasoline.
B. Start engine.
C. Verify engine runs smoothly without MIL ON.

STEP 6: ALTERNATE FUEL OPERATION

- A.** Set the Fuel Select Switch to Alternate Fuel mode.
B. Verify engine runs smoothly without MIL ON.

SECTION IV - TROUBLESHOOTING TIPS**STEP 7: WON'T RUN ON GASOLINE**

- A.** Verify proper installation of connectors and wires.
B. Check for 12.0 - 15.0 volts on both the RED and PINK wires.

STEP 8: WON'T RUN ON ALTERNATE FUEL

- A.** Verify proper installation of connectors and wires.
B. Measure for 12.0 - 15.0 volts on RED wire.
C. Measure for 11.5 to 12.5 volts on the PINK wire at idle.

STEP 9: ENGINE DIES ABOVE 1000 RPM ON ALTERNATE FUEL

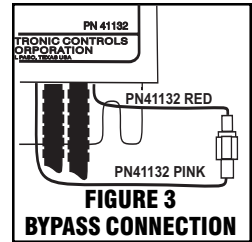
- A.** Verify the PINK wire is connected to the INTEGRATED PROCESSOR PINK wire.
B. If problem is not found, proceed to STEP 10.

STEP 10: OTHER SYMPTOMS

- A.** Check voltages on REFERENCE TABLES.
B. If problem is not found, proceed to STEP 10 on page 6.

STEP 11: BYPASSING THE INTERCEPTOR

- A.** Connect the loose **PN41132 RED** and **PINK** wires together. (See Figure 3)
- B.** Test the vehicle for smooth running on gasoline without MIL.
- C.** If MIL is on, **disconnect** the **PN41132** from the OEM harness connectors.
- D.** Connect the two mating **OEM connectors** together.
- E.** Test the vehicle for smooth running without MIL.



NOTE: Bypassing the **GM INJECTOR INTERCEPTOR II** is intended to be a temporary troubleshooting procedure.

Dual fuel applications should operate on gasoline until symptom is properly diagnosed and repaired.

Dedicated alternate fuel vehicles may illuminate the MIL until the symptom is properly diagnosed and repaired.

Follow all manufacturer recommendations when troubleshooting diagnostic codes.

For technical support contact Dual Curve-Alternate Fuels at the numbers below. Please have the following information available.

Name: _____

Company: _____

City: _____ **State:** _____

Country: _____

Telephone: (____) ____ - ____ - _____

Fax: (____) ____ - ____ - _____

Email: _____

Vehicle Year: ____ **Make:** _____ **Model:** _____

Engine Size: ____ Litre.

DUAL CURVE COMPONENT PART NUMBER(S): _____

Symptoms & diagnostic codes : _____

Type of fuel: LPG CNG Other Dual Fuel Dedicated

Abbreviations

BATT - Battery

WOT - Wide Open Throttle

CPA - Connector Position Assurance

MIL - Malfunction Indicator Light

N/A - None Applicable or None Available

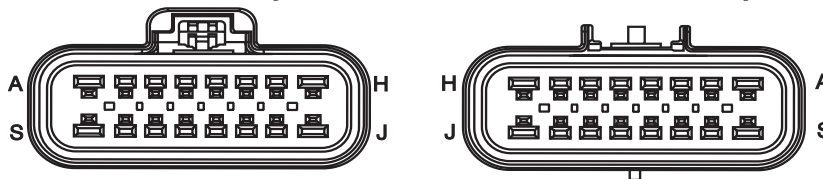
NEG - Negative

OEM - Original Equipment Manufacturer

PN41132 to OEM Injectors

PN41132 to OEM Computer

**FIGURE 4
CONNECTOR END VIEWS**



PN41132 WIRING REFERENCE TABLE

PIN	WIRE COLOR	FUNCTION	OEM WIRE COLOR	VOLTAGE	CONDITION
A	PINK	OEM KEY ON POWER	PINK	12.0 - 15.0	Key On - Gasoline
B	YELLOW	TEMP. SENSOR SIGNAL	YELLOW	1.5 - 2.0	Engine running warm
C	BLACK	INJECTOR 1 SIGNAL	BLACK	12.0 - 15.0	Idle speed - Alt. fuel
D	LT GRN	INJECTOR 2 SIGNAL	LT GRN/BLK	12.0 - 15.0	"
E	VIOLET	INJECTOR 3 SIGNAL	PNK/BLK	12.0 - 15.0	"
F	LT BLUE	INJECTOR 4 SIGNAL	LT BLU/BLK	12.0 - 15.0	"
G	WHITE	INJECTOR 5 SIGNAL	BLK/WHT	12.0 - 15.0	"
H	BRN/YEL	INJECTOR 6 SIGNAL	YEL/BLK	12.0 - 15.0	"
J	DK BLUE	-	-	-	-
K	GRAY	5 VOLT REFERENCE	GRAY	4.5 - 5.5	Key on
L	ORANGE	MAP RETURN	ORG/BLK	0.0 - 0.5	Continuity to Batt. Neg .
M	GREEN	MAP SIGNAL	LT GRN	0.5 - 4.5	Idle - WOT
N	RED	CAM SENSOR FEED	RED	12.0 - 15.0	Key On
P	BROWN	CAM SENSOR RETURN	PNK/BLK	0.0	0 Ohm to Battery Neg -
R	BRN/WHT	CAM SENSOR SIGNAL	BRN/WHT	0.5 - 9.0	Idle
S	TAN	-	-	-	-

N/A	PINK	INJECTOR POWER	N/A	12.0 - 15.0	Key On - Gasoline
N/A	RED	KEY ON POWER	N/A	12.0 - 15.0	Key On

