GM ALTERNATIVE FUELS

OWNER'S MANUAL SUPPLEMENT

2001 BI-FUEL CHEVROLET CAVALIER
The 2001 Bi-fuel Chevrolet Cavalier
Owner’s Manual Supplement

This supplement contains information specific to the operation of your bi-fuel vehicle. It also contains your bi-fuel Maintenance Schedule. The sections in this supplement correspond to the sections in your owner’s manual. This supplement, along with your owner’s manual, will assist you in the proper use and maintenance of your vehicle.
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In the Index you will find an alphabetical listing of almost every subject in this manual. You can use it to quickly find something you want to read.
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Please keep this supplement with the owner’s manual in your vehicle, so it will be there if you ever need it when you’re on the road. If you sell the vehicle, please leave this owner’s manual supplement and the owner’s manual in it so the new owner can use it.

For Canadian Owners Who Prefer a French Language Manual:

Aux propriétaires canadiens: Vous pouvez vous procurer un exemplaire de ce guide en français chez votre concessionnaire ou au:

Helm, Inc.
P.O. Box 07130
Detroit, MI 48207
Introduction

Your bi-fuel vehicle is designed to operate on either compressed natural gas (CNG) or gasoline. The ability to operate on either fuel gives you a great deal of flexibility. It also greatly increases the range of your vehicle.

There are abundant reserves of natural gas in the United States and Canada. Natural gas is primarily methane with some other hydrocarbons. When natural gas is burned in your engine, it produces low emissions. This means less smog, less air pollution and cleaner air. This makes natural gas a promising motor fuel for the future.

How to Use This Supplement

This supplement contains information specific to the CNG fuel system on your bi-fuel vehicle. It doesn’t explain everything you need to know about your vehicle. You must use this supplement along with your Cavalier owner’s manual. Only then will you be able to properly operate and maintain your vehicle.

Please read this supplement from beginning to end when you first receive your new bi-fuel vehicle. If you do this, it will help you learn about the special features and controls. In this supplement, you’ll find that words and pictures work together to make things easy to understand.

Index

A good place to look for what you need is the Index in the back of this supplement. It’s an alphabetical list of all that’s in the supplement, and the page number where you’ll find it.
Section 2  Features and Controls

Here you can learn about starting your bi-fuel vehicle, and what to do if your vehicle starts on or switches to gasoline. The operation of the fuel gage, fuel selector switch and fuel indicator light is also explained.

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Starting Your Bi-fuel Engine

Your bi-fuel vehicle is designed to start and operate on CNG.

Make sure the shift lever is in PARK (P) or NEUTRAL (N). Your engine won’t start in any other position.

1. Without pushing the accelerator pedal, turn your ignition key to START. When the engine starts, let go of the key. The idle speed will drop as the engine gets warm.

2. If it doesn’t start right away, hold your key in START. When the engine starts, let go of the key.

3. If the engine doesn’t start in eight seconds, the vehicle will start on gasoline and the fuel indicator light will come on. For CNG operation, turn the ignition key OFF, wait ten seconds, and start over.

4. If the engine still won’t start on CNG, see “If Your Vehicle Starts on Gasoline” for more information.
If Your Vehicle Starts on Gasoline

Your bi-fuel vehicle is designed to start and operate on CNG. However, if any one of the following conditions exists, your vehicle will start on gasoline and the fuel indicator light will come on.

To prevent stalling, always make sure your vehicle has enough gasoline in the fuel tank. To return to CNG operation, perform the recommended action.

1. The CNG fuel tank is empty.
   *Recommended Action:* Fill the CNG fuel tank. Refer to “Filling Your CNG Fuel Tank” in the Index.

2. The engine coolant temperature is less than 10°F (-12°C).
   *Recommended Action:* Drive your vehicle for several minutes to return to CNG operation.

3. Every 100th start.
   *Recommended Action:* Drive your vehicle for several minutes to return to CNG operation.

4. The engine crank time is more than eight seconds.
   *Recommended Action:* Turn the engine OFF, wait ten seconds and start again. If the engine does not start on CNG after three tries, take your vehicle to an authorized Chevrolet dealer for service.

5. A CNG fuel system fuse is bad.
   *Recommended Action:* In this case, the fuel indicator light will not come on but your vehicle will still operate on gasoline. You’ll know this has happened when the light does not come on for several seconds during start-up. Check the CNG fuel system fuses. See “Fuses” in the Index.

6. The OBD (On Board Diagnostics) system detects a specific emission problem. The Malfunction Indicator Lamp (Check Engine Light) will come on.
   *Recommended Action:* Your vehicle may require service. See “Malfunction Indicator Lamp” in the Index of your Cavalier owner’s manual.
If Your Vehicle Switches to Gasoline While Driving

Your bi-fuel vehicle is designed to start and operate on CNG. However, if any one of the following conditions exists, your vehicle will switch to gasoline while driving and the fuel indicator light will come on.

To prevent stalling, always make sure your vehicle has enough gasoline in the fuel tank. To return to CNG operation, perform the recommended action.

1. The CNG fuel tank is empty.
   
   **Recommended Action:** Fill the CNG fuel tank. Refer to “Filling Your CNG Fuel Tank” in the Index.

2. A CNG fuel system fuse is bad.
   
   **Recommended Action:** In this case, the fuel indicator light will not come on but your vehicle will still operate on gasoline. You’ll know this has happened when the light does not come on for several seconds during start-up. Check the CNG fuel system fuses. See “Fuses” in the Index.

3. The OBD (On Board Diagnostics) or system detects a specific emission problem. The Malfunction Indicator Lamp (Check Engine Light) will come on.

   **Recommended Action:** Your vehicle may require service. See “Malfunction Indicator Lamp” in the Index of your Cavalier owner’s manual.

4. A CNG fuel system problem is detected.

   **Recommended Action:** Turn the engine OFF, wait ten seconds and start again. If the engine does not start on CNG after three tries, take your vehicle to an authorized Chevrolet dealer for service.
Fuel Gage

When the ignition is on during CNG operation, the fuel gage indicates the amount of fuel in the CNG fuel tank.

When the ignition is on during gasoline operation, the fuel gage indicates the amount of fuel in the gasoline fuel tank.

Remember that CNG is a gas that is affected by changes in temperature and pressure. This may also affect the fuel gage reading. After refueling with CNG, the fuel gage may read past F (full). After driving several miles, the gage may read a little less than F (full). This “settling” of CNG in the fuel tank is normal and does not indicate a problem with the fuel gage.

Fuel Gage Selector Switch and Fuel Indicator Light

The fuel gage selector switch and fuel indicator light are next to the instrument panel intensity control.

The fuel gage selector switch allows you to check the fuel level of both the gasoline and the CNG fuel tanks.

If the switch is pressed while operating on CNG, the fuel gage will tell you how much gasoline is in the gasoline fuel tank. If the switch is pressed while operating on gasoline, the fuel gage will tell you how much CNG is in the CNG fuel tank. This feature works the best after your vehicle is stopped or parked for more than 30 seconds.
Note that if your vehicle is operating on CNG and moving, it takes several minutes for the fuel gage to display the gasoline fuel level and then return to the CNG fuel level. During all other operating conditions, the fuel gage will display the fuel level for about ten seconds. The gage will then return to its previous position and tell you the level of the fuel on which the vehicle is operating.

The fuel indicator light is located in the fuel gage selector switch. This light will come on if your vehicle is operating on gasoline.

The light will also come on for several seconds during start-up. This feature is designed to check the operation of the bulb. If the light does not come on, either a CNG fuel system fuse or the fuel indicator light may need replacement.

Malfunction Indicator Lamp
(Check Engine Light) (Bi-fuel Engine)

Your vehicle is equipped with a computer that monitors the operation of the CNG fuel system. If the computer detects a problem, the CHECK ENGINE light will come on.

Your vehicle may require service. See “Malfunction Indicator Lamp” in the Index of your Cavalier owner’s manual.
Periodic Gasoline Operation

NOTICE:

To keep the gasoline fuel system in good working condition, operate your bi-fuel vehicle on one full tank of gasoline at least every sixty days. If you don’t, the gasoline fuel system could be damaged.

To operate your bi-fuel vehicle on gasoline, follow these steps:

1. Fill the gasoline fuel tank.

2. Operate your vehicle until the CNG fuel tank is empty. The vehicle will then switch to gasoline operation and the fuel indicator light will come on.

3. Operate the vehicle until the gasoline fuel tank is almost empty.

To return to CNG operation, follow these steps:

1. Refill both the CNG and the gasoline fuel tanks.
2. Start your vehicle. See “Starting Your Bi-fuel Engine” in the Index.
## Section 5  Problems on the Road

Here you’ll find what to do about some problems that can occur on the road.

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In Case of a CNG Leak

It's normal to smell a slight natural gas odor right after you turn off your vehicle. However, if you smell a persistent natural gas odor or hear a hissing sound, the CNG fuel system on your vehicle might have a leak. Have the vehicle towed to an authorized Chevrolet dealer for service.

Jump Starting

⚠️ CAUTION:

If the CNG fuel system has a leak, a spark from jumper cables could ignite the natural gas. You or someone else could be badly burned. Do not jump start your vehicle if you smell natural gas or hear a hissing sound.

Before jump starting your bi-fuel vehicle, check for a natural gas leak. If you smell a persistent natural gas odor or hear a hissing sound, the CNG fuel system on your vehicle might have a leak. Do not try to jump start your vehicle. Have the vehicle towed to an authorized Chevrolet dealer for service.

See your Cavalier owner's manual for step by step jump starting instructions.
Towing Your Vehicle

⚠️ CAUTION:

Towing your vehicle with improperly positioned tow straps, hooks or chains can damage the CNG fuel system and cause a leak. You or someone else could be injured. Do not use the CNG fuel system components and/or fuel lines as towing attachment points.

Consult your dealer or a professional towing service if you need to have your vehicle towed. See “Roadside Assistance” in the Index of your Cavalier owner’s manual.

Removing the Spare Tire and Tools

The equipment you’ll need is in the trunk. Lift and remove the cover. See “Compact Spare Tire” in the Index of your Cavalier owner’s manual for more information about the compact spare.
Remove the foam tool tray. Hold the spare tire so it doesn’t fall forward, turn the wing bolt to the left and remove it. Then lift off the adapter and remove the spare tire.

Remove the jack and wheel wrench from the foam tool tray. Remove the band around the jack.

The tools you’ll be using are the jack (A) and wheel wrench (B).
Removing the Flat Tire and Installing the Spare Tire

⚠️ CAUTION:

Raising your vehicle with the jack improperly positioned can damage the CNG fuel system and cause a leak. You could be hurt. Do not use the CNG fuel system components and/or fuel lines as lift points.

See “Removing the Flat Tire and Installing the Spare Tire” in the Index of your Cavalier owner’s manual for the correct front and rear jack positions.
Storing the Flat Tire and Tools

**CAUTION:**

Storing a jack, a tire or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place.

Store the flat tire in the compact spare tire compartment and secure the adapter, extension (aluminum wheel only) and wing bolt. Store the jack and wheel wrench in the foam tray.

Separate the top and the bottom pieces of the spare tire cover. Store the cover and the spacer securely in the trunk.

A. Wrench  
B. Jack  
C. Wing Bolt (Extension Installed)  
D. Extension  
E. Adapter  
F. Flat Road Tire  
G. Cover  
H. Spacer
Storing the Spare Tire and Tools

⚠️ CAUTION:

Storing a jack, a tire or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place.

The compact spare is for temporary use only. Replace the compact spare tire with a full-size tire as soon as you can. See “Compact Spare Tire” in the Index of your Cavalier owner’s manual.

A. Wrench
B. Jack
C. Cover
D. Wing Bolt
E. Adapter
F. Spare Tire
G. Spacer
## Section 6  Service Care

Here you’ll find how to refuel your vehicle with CNG. Also included are service information and capacities.

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<td>6-6</td>
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Doing Your Own Service Work

⚠️ CAUTION:

Never try to do your own service work on the CNG fuel system. The system operates under high pressure. You can be injured and your vehicle can be damaged if you try to do your own service work. Service and repair of this system should only be performed by a GM-trained alternative fuels service technician with the proper knowledge and tools.

Filling Your CNG Fuel Tank

⚠️ CAUTION:

Compressed Natural Gas (CNG) is extremely flammable. It burns and can cause very bad injuries. If an ignition source is present, a fire can occur. Keep sparks, flames and smoking materials away from natural gas. Do not smoke if you are near natural gas or refueling your vehicle.

⚠️ CAUTION:

Compressed Natural Gas (CNG) is stored in the fuel tank at pressures up to 3,600 psi (24.8 MPa). To prevent personal injury:

- Never fill to a pressure greater than 3,600 psi (24.8 MPa).
- Never fill a leaking or damaged tank.
The fill valve is located at the rear of the vehicle under the driver’s side taillamp.

If you have never filled a CNG fuel tank, consult a qualified CNG station operator.

Because CNG is a gas, the amount stored in the CNG fuel tank depends on pressure and temperature. The CNG fuel system is designed to use a fill pressure of 3,600 psi (24.8 MPa) at 70°F (21°C). Many CNG fueling stations in the United States operate at this pressure. However, some stations in the United States and all stations in Canada operate at 3,000 psi (20.7 MPa). This lower fill pressure will reduce the range of your vehicle by about 15%.

Also, a “fast fill” station heats and expands the natural gas during refuelling. The range of your vehicle will be reduced by about 15%. A vehicle refueled using a “slow fill” overnight dispenser is not subject to this condition and should receive a full fill.
Here is a typical fuel filling procedure using a Type 1 CNG fill nozzle (A). If the station you visit uses a different style fill nozzle, ask the CNG station operator for the correct fuel filling procedure.

1. Turn off the engine and set the parking brake.
2. Open the fill door under the driver’s side taillamp.
3. Remove any debris from the CNG fill valve.
4. Inspect the fill valve O-ring. Make sure the O-ring is seated in the groove. Never connect the fill nozzle to the valve if the O-ring is missing or damaged. The O-ring must be replaced. See “Fill Valve O-ring” in the Index.

5. Connect the CNG fill nozzle to the fill valve.
6. Rotate the fill nozzle handle 180° clockwise to lock onto the valve.
7. To begin refueling, open the supply valve on the CNG storage tank.
8. When CNG has stopped transferring, close the fill supply valve.
9. Rotate the fill nozzle handle 90° counterclockwise to vent the fill hose. You will hear a hissing sound as a small amount of natural gas is vented.
10. Rotate the fill nozzle handle an additional 90° counterclockwise to unlock the fill nozzle.
11. Disconnect the fill nozzle.
12. Return the fill nozzle to the dispenser.
13. Close the fill door.

Fuel Filling Problems

If you begin to experience very slow fill rates, the CNG fuel filter in the fill valve may require service. If you experience reduced range during CNG operation and none of the conditions described under “Filling Your CNG Fuel Tank” in this section apply, the CNG fuel tank may require service. In either case, take your vehicle to an authorized Chevrolet dealer.
Fuses

The CNG fuel system wiring in your vehicle is protected from short circuits by two fuses. If a CNG fuel system fuse is bad, your vehicle will start and operate on gasoline.

Instrument Panel Fuse Block

The instrument panel fuse block is located at the left end of the instrument panel. To open, push the tab on the access door to the left and pull the door forward. Make sure to insert the tabs when replacing the cover.

<table>
<thead>
<tr>
<th>Fuse</th>
<th>Usage</th>
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<td>CLS/PCM</td>
<td>Instrument Cluster, Powertrain Control Module, CNG Engine Control Unit, Daytime Running Lamps</td>
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<tr>
<td>ERLS</td>
<td>CNG Engine Control Unit, Automatic Transaxle, Brake Transaxle Shift Interlock, A/C Compressor, Cruise Control, Multiport Fuel Injection</td>
</tr>
</tbody>
</table>
Engine Compartment Fuse Block

The engine compartment fuse block is located on the driver’s side of the engine compartment. Lift off the cover to check the fuses.

Fuse | Usage
---|---
CNG | CNG Fuel System Power
COOLING FAN | Cooling Fan/CNG Fuel System Power

Capacities and Specifications

Cooling System

- 2.2 L ........................................ 11.0 quarts (10.4 L)

CNG Fuel Tank

- 6.2 GGE (Gasoline Gallon Equivalent) (23.5 L) at 3,600 psi (24.8 MPa) and 70°F (21°C)

Gasoline Fuel Tank

- 14.3 gallons (54.1 L)

NOTE: All capacities are approximate. When adding, be sure to fill to the appropriate level, as recommended in this manual.

2.2 L Engine Specifications

Horsepower (CNG) ................................ 105 @ 5,200 rpm

Replacement Parts

Part | Part#
---|---
Fill Receptacle O-ring .......................... 52368728
Section 7  Maintenance Schedule

In this section you'll find the special maintenance required for your bi-fuel vehicle. These services will help your vehicle operate dependably and efficiently.

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Part A: Scheduled Maintenance Services

The following maintenance items are specific to the CNG fuel system on your bi-fuel vehicle. These are required in addition to the maintenance items listed in your Cavalier owner’s manual. See “Scheduled Maintenance Services” in your Cavalier owner’s manual for information on selecting the right schedule for your vehicle.

Footnote

† The U.S. Environmental Protection Agency or the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle’s useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.
Short Trip/City Scheduled Maintenance — Bi-fuel Engines

The services shown in this schedule up to 96,000 miles (160,000 km) should be performed after 96,000 miles (160,000 km) at the same intervals.

**Every 6,000 Miles (10,000 km)**
- ☐ Inspect all CNG fuel lines and fittings. (See footnote †.)
- ☐ Inspect CNG fuel hoses and clamps. (See footnote †.)
- ☐ Inspect fill receptacle O-ring. (See footnote †.)
- ☐ Inspect fill receptacle filter.
- ☐ Inspect air intake system for leaks. (See footnote †.)

**Every 60,000 Miles (100,000 km)**
Perform all of the 6,000 mile (10,000 km) service items plus:
- ☐ Replace high pressure regulator (HPR) filter. (See footnote †.)
  *An Emission Control Service*
- ☐ Replace spark plugs.
  *An Emission Control Service*
- ☐ Remove and clean fill receptacle filter. (Replace if necessary.)

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<td>12,000 Miles (20,000 km)</td>
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<td>18,000 Miles (30,000 km)</td>
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<td>96,000 Miles (160,000 km)</td>
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</table>
Long Trip/Highway Scheduled Maintenance — Bi-fuel Engines

The services shown in this schedule up to 97,500 miles (162 500 km) should be performed after 97,500 miles (162 500 km) at the same intervals.

**Every 7,500 Miles (12 500 km)**
- □ Inspect all CNG fuel lines and fittings. (See footnote †.)
- □ Inspect CNG fuel hoses and clamps. (See footnote †.)
- □ Inspect fill receptacle O-ring. (See footnote †.)
- □ Inspect fill receptacle filter.
- □ Inspect air intake system for leaks. (See footnote †.)

**Every 60,000 Miles (100 000 km)**
Perform all of the 7,500 mile (12 500 km) service items plus:
- □ Replace high pressure regulator (HPR) filter. (See footnote †.)
  *An Emission Control Service*
- □ Replace spark plugs.  
  *An Emission Control Service*
- □ Remove and clean fill receptacle filter.  
  (Replace if necessary.)

### Long Trip/Highway Scheduled Maintenance Record — Bi-fuel Engines

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<th>Actual Mileage</th>
<th>Serviced By</th>
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<td>7,500 Miles (12 500 km)</td>
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<td>15,000 Miles (25 000 km)</td>
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<td>22,500 Miles (37 500 km)</td>
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<td>30,000 Miles (50 000 km)</td>
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<td>37,500 Miles (62 500 km)</td>
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<td>45,000 Miles (75 000 km)</td>
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<td>52,500 Miles (87 500 km)</td>
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<td>60,000 Miles (100 000 km)</td>
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<td>67,500 Miles (112 500 km)</td>
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<td>75,000 Miles (125 000 km)</td>
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<td>82,500 Miles (137 500 km)</td>
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<td>90,000 Miles (150 000 km)</td>
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<tr>
<td>97,500 Miles (162 500 km)</td>
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</table>
Part B: Owner Checks

Listed below is an owner check that should be performed at each fuel fill to ensure the safety and dependability of your bi-fuel vehicle.

At Each Fuel Fill

Fill Valve O-ring Check

Inspect the fill valve O-ring. Make sure the O-ring is seated in the groove. Replace if missing or damaged.

⚠️ CAUTION:

Using a common automotive or plumbing O-ring as a replacement could cause a leak while filling the CNG fuel tank. If something ignites the leak, you could be burned. Use only CNG certified O-rings from an authorized Chevrolet dealer.

You will find three spare O-rings in the glove box. These special O-rings are designed for use with natural gas. See an authorized Chevrolet dealer if you need additional O-rings.

To replace the fill valve O-ring, follow these steps:

1. Remove the O-ring from the fill valve. You can use a small flat-blade screwdriver, a ball-point pen or a paper clip.
2. Install the new O-ring in the fill valve. Make sure the O-ring is properly seated in the groove.
Part C: Periodic Maintenance Inspections

The following maintenance inspections should be performed at the specified intervals. You should have your Chevrolet dealer’s CNG certified service technician do these jobs. Have any necessary repairs performed at once.

**High Pressure Regulator (HPR) Coolant Hoses Inspection**

Inspect the High Pressure Regulator (HPR) coolant hoses twice a year (for example, spring and fall). Have the hoses replaced if they are cracked, swollen or deteriorated. Inspect all fittings and clamps; replace if necessary.

**Fill Valve Access Door Foam Seal Inspection**

Inspect the foam seal on the inside of the fill valve access door twice a year. Have the seal replaced if cracked or damaged.

**CNG Fuel System Leak Inspection (†)**

Inspect the CNG fuel system for leaks once a year using an electronic leak detector. If a leak is found, have the CNG fuel system repaired.
CNG Fuel Tank and Mounting Bracket Inspection

A trained technician must remove the tank cover and perform a CNG fuel tank and mounting bracket inspection every three years or 36,000 miles (60,000 km), whichever occurs first. Take your vehicle to the nearest authorized Chevrolet dealer for this inspection.

The CNG fuel tank installed in your vehicle conforms to U.S. and Canadian safety standards applicable to motor vehicles.

Service pressure 24,820 kPa (3,600 psig).

See instructions on fuel container for inspection and service life.

⚠ ⚠ CAUTION:

Keeping a CNG fuel tank in service after the tank service expiration date is dangerous. The tank may no longer withstand the CNG fuel system operating pressure. You could be seriously injured or killed. Take your vehicle to an authorized GM dealer to have the tank replaced.

The CNG fuel tank has a service life of 15 years. After the tank service expiration date, the tank must be replaced by an authorized Chevrolet dealer. This date is listed on the fuel tank, the fuel fill door label and the underhood bi-fuel information label.
CNG Fuel Tank Inspection Record

Tank Manufacturer: Pressed Steel Tank Company
Tank Size: 34” L (86 cm) x 16.5” W (42 cm)

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<th>Inspection Interval (Mileage or Years)</th>
<th>Inspection Date</th>
<th>Inspector</th>
<th>Inspector Initials</th>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Tank Exchanged</td>
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* Record the type of repair as none, Level 1, Level 2 or tank exchanged. See “CNG Fuel Tank Inspection” in the J Platform Bi-fuel Service Manual Supplement for inspection criteria.
This section tells you how to obtain service publications.

8-2 Chevrolet Service Publications
Ordering Information
CHEVROLET SERVICE PUBLICATIONS ORDERING INFORMATION

The following publications covering the operation and servicing of your vehicle can be purchased by filling out the Service Publication Order Form in this book and mailing it in with your check, money order, or credit card information to Helm, Incorporated (address below.)

CURRENT PUBLICATIONS FOR CHEVROLET

SERVICE MANUALS
Service Manuals have the diagnosis and repair information on engines, transmission, axle, suspension, brakes, electrical, steering, body, etc.
RETAIL SELL PRICE: $120.00

TRANSMISSION, TRANAXLE, TRANSFER CASE UNIT REPAIR MANUAL
This manual provides information on unit repair service procedures, adjustments and specifications for the GM transmissions, transaxes and transfer cases.
RETAIL SELL PRICE: $50.00

SERVICE BULLETINS
Service Bulletins give technical service information needed to knowledgeably service General Motors cars and trucks. Each bulletin contains instructions to assist in the diagnosis and service of your vehicle.

OWNER’S INFORMATION
Owner publications are written directly for Owners and intended to provide basic operational information about the vehicle. The owner’s manual will include the Maintenance Schedule for all models.

In-Portfolio: Includes a Portfolio, Owner’s Manual and Warranty Booklet.
RETAIL SELL PRICE: $20.00

Without Portfolio: Owner’s Manual only.
RETAIL SELL PRICE: $15.00

Bi-fuel Owner’s Manual Supplement only.
RETAIL SELL PRICE: $10.00

CURRENT & PAST MODEL ORDER FORMS
Service Publications are available for current and past model GM vehicles. To request an order form, please specify year and model name of the vehicle.

PLEASE COMPLETE THE ORDER FORM SHOWN ON THE FOLLOWING PAGE AND MAIL TO:
Helm, Incorporated • P.O. Box 07130 • Detroit, MI 48207

OR ORDER TOLL FREE: 1-800-782-4356
Monday-Friday 8:00 AM — 6:00 PM Eastern Time
For Credit Card Orders Only (VISA-MasterCard-Discover)
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NOTE: Dealers and Companies please provide dealer or company name, and also the name of the person to whose attention the shipment should be sent. Mail completed order form to: HELM, INCORPORATED • P.O. Box 07130 • Detroit, MI 48207

For purchases outside U.S.A., please write to the above address for quotation.

*(Prices are subject to change without notice and without incurring obligation. Allow ample time for delivery.)*

Note to Canadian Customers: All listed prices are quoted in U.S. funds. Canadian residents are to make checks payable in U.S. funds.
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