

2020-2021
Ford F-250/350 6.2L
Natural Gas Vehicle Supplemental Owner's Manual



**Compressed Natural Gas
(CNG) Vehicle**

Supplemental Owner's Manual

**Bi-Fuel CNG/Gasoline and
Dedicated CNG**



**2020/2021 Ford F-250/350 6.2L
Super Duty Truck**

TABLE OF CONTENTS

Owner & NGV System Identification	3
Introduction	4
Types of NGV Systems & About CNG	5
Fuel Selector & Level Indicator Switch	6 – 7
Precautionary Information	8 - 9
Vehicle Identification and Labeling	10
NGV System Components & Types of Fueling	11
NGV Refueling Procedure	12
NGV System Fuel Shut-off Locations	13
Starting the Engine	14
NGV Fuel System Leak Procedure & in the Event of Accident	15
NGV Cylinder Labeling & Inspection	16
NGV Cylinder Information, Cylinder Cover, Fuses Location	17
Maintenance & NGV Coalescing Filter	18
Required Maintenance Schedule & Log	19

Required Maintenance Schedule & Log

The NGV coalescing filter must be inspected and replaced every 10,000 miles.

1.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
2.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
3.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
4.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
5.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
6.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
7.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
8.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
9.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
10.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
11.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature
12.	_____	_____	_____	_____
	Date	Mileage	Service Center Name	Technician Signature

Maintenance

Engine Oil - Follow manufacturer's recommendation for engine oil change intervals as listed in the original equipment Owner's Guide.

Engine Coolant - Follow manufacturer's recommendation for engine coolant service intervals as listed in the original equipment Owner's Guide. Your vehicle has 2 additional coolant hoses that are connected to the natural gas high-pressure regulator. These hoses run the entire length of the vehicle from the engine compartment to the high-pressure regulator in the vehicle. Visually inspect these hoses, their mounts and covering annually.

NGV Coalescing Filter - Your NGV has a high pressure natural gas coalescing filter mounted near the natural gas storage fuel cylinder, usually located in the bed of the truck. The natural gas travels through a short high-pressure fuel line and enters a (1 micron) coalescing filter, which removes aerosol compressor oil, oil droplets and other contaminants from the natural gas to help protect your engine and natural gas system components. Some natural gas stations are not maintained properly and will allow compressor oil to enter in the gas stream. If your dealer determines there is oil in your filter then contact the natural gas station owner and make them aware of the problem.

Warning: Having compressor oil or other contaminants in your natural gas cylinder may void warranties and deteriorate the inside of the cylinder.

The coalescing filter needs to be replaced every 10,000 miles. The filter housing is under high pressure and must use special tools and procedures. Please contact your authorized dealer for maintenance on the filter.

Service and maintenance to the filter must be performed at an authorized dealership by qualified technicians. Failure to do so may result in personal injury or damage to natural gas fuel system.

Contact Altech-Eco for replacement coalescing filters at 828-654-8300.

NGV SYSTEM & VEHICLE IDENTIFICATION

V.I.N.: _____

NGV System Master Serial (MS#): _____

NGV System Installation Date: _____

Installer Name: _____

Dealer Name: _____

Original Owner

Name: _____

Address: _____

Address: _____

Second Owner

Name: _____

Address: _____

Date Purchased: _____

Introduction

This booklet supplements your Owner's Guide and is part of the owner's portfolio. It describes the operation of your natural gas vehicle (NGV) and how it differs from a standard gasoline powered vehicle. Your new natural gas vehicle operates and performs like a conventional gasoline only powered vehicle. However, there are a few differences you should be aware of that are covered in this supplement. In addition to reading the original equipment Owners' Guide it is very important that you read this guide and familiarize yourself and others operating this vehicle with this information.

Some of the information in this supplement replaces certain instructions in the Owner Guide. Please read this supplement carefully in its entirety to understand the operation and unique features of your alternative fuel vehicle.

Warnings

You will find important safety information in this supplement and in the Owner's Guide. This information reminds and alerts you to be particularly careful in potential hazard areas that can cause damage to your vehicle or possible injury to yourself, your passengers or others. Please read all warnings carefully.

Service to high-pressure fuel system components must be conducted only at qualified dealerships by qualified technicians. Failure to do so may cause damage to components or cause bodily harm.

Do not use E85 in this vehicle, it will not operate properly. We recommend using 91 octane gasoline.

Any bed cap added to this vehicle must be well ventilated. Failure to provide adequate ventilation could result in a gas vapor build up over time potentially resulting in a combustible mixture.

NGV Cylinder Capacity, Pressure, & Lifetime

Cylinder Capacity – natural gas cylinder manufacturers provide an industrial standard amount for the cylinders they make. This amount will not be what you are able to refuel the cylinders when fueling at the natural gas station. The gasoline gallon equivalent (GGE) amount on refills will vary depending on dispensing equipment, weather, temperatures, altitude, storage vessel pressure, temperature compensation, etc... The natural gas cylinders will always have natural gas pressure remaining in tank even if the NGV fuel gauge shows it is empty.

The natural gas fuel cylinder meets the specifications and safety standards for ANSI/CSA NGV2 and US DOT FMVSS. Cylinder is rated for a service pressure of 3,600 psi (24800 KpA).

Cylinder Service Pressure - 3,600 psi (24800 KpA) at 70°F

Cylinder Lifetime – 15-20 years, varies by manufacture. Check cylinder sticker under the hood for details on your specific tank.

Natural Gas Cylinder Cover

Your natural gas system can have several different types of cylinder covers such as; a diamond plate metal cover, a tool box cover, a black powder coated cover, etc.... Do not drill into or modify a tank cover. There is a (3,600 psi rated) high pressure natural gas tank underneath the cover and under no circumstances must anyone drill into the natural gas cylinder. Drilling into a natural gas cylinder can cause serious injury and or death.

Do not sit, stand or place heavy loads on in-bed cylinder cover. Any bed cap added to this vehicle must be well ventilated. Failure to provide adequate ventilation could result in a gas vapor build up over time potentially resulting in a combustible mixture.

NGV Fuses Location

The fuses for your natural gas system are located in the same location as the original Ford fuses. Fuse location 68 and 52 (10 amp and 15 amp)

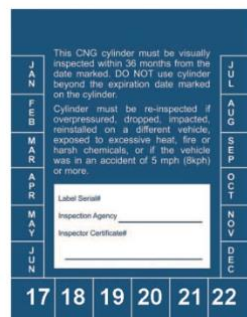
Natural Gas Cylinder Labeling / Inspection

Federal law requires the natural gas cylinder to be inspected every 3 years or 36,000 miles, whichever occurs first, by a certified natural gas cylinder and fuel system inspector (CNG-FSI). If cylinder passes inspection, they will put a sticker on the cylinder that will show the next required inspection date or mileage. To search for qualified inspector near you go to: <http://www.csagroup.org/search-qualified-personnel/>

Immediate inspection is required in the event of a crash or collision. See page 17 in the event of crash. Failure to do so may result in personal injury or damage to the alternative fuel system and the vehicle.

Most natural gas fuel cylinders have a lifetime of 15-20 years. After manufacturer expiration date the cylinder is required to be replaced and destroyed. The expiration date of the NGV fuel cylinder is on a label the manufacturer attached to the fuel cylinder. If removing or replacing the NGV cylinder from your vehicle you must contact an authorized dealership by qualified technicians to remove the cylinder. Failure to do so may result in personal injury or damage to natural gas system. Cylinders are high pressure and need to be vented properly before removal or replacement.

Examples of cylinder manufacturer and cylinder inspection labels. (not from actual tank in vehicle)



Types of Natural Gas Systems

Unlike the conventional gasoline model, your vehicle with natural gas conversion system operates on natural gas.

There are two types of Natural Gas Conversion systems:

- **Dedicated** – vehicle operates solely on natural gas.
- **Bi-fuel** – vehicle operates on gasoline or natural gas.

If you are unsure as to which system you have, contact your dealer.

About Compressed Natural Gas (CNG)

Compressed natural gas is a mixture of hydrocarbon gases with approximately 96% methane and is highly flammable, odorless and colorless. Natural gas is a highly pressurized version of the same clean burning natural gas used in many homes. Compressed natural gas is abundant in the United States, which allows natural gas to be used as a very cost-effective alternative fuel. Natural gas is a clean burning fuel, which makes it highly suitable to meet the most stringent automotive emission requirements. Natural gas is cheap, clean, and domestically produced.

The compressed natural gas used in your vehicle is stored under high pressure of 3,600 psi at 70°F (21°C). The natural gas system in your vehicle, including the cylinder, hoses and other components have been designed to store gas at these pressures. All components on your natural gas system have been tested for safety.

You should never smell gas or hear a hissing sound unless you are refueling. If you smell gas or hear a hissing sound at any other time you need to shut off the natural gas system and follow the instructions on page 17.

Fuel Source Selector Switch

The fuel selector switch is located to left of the steering wheel on the dashboard. Switch between modes by pressing center button on switch. Avoid rapid manual repeat changing from one mode to another, as this can result in a possible engine stall. Manual fuel switchover can be performed at either a standstill or while driving.

Natural gas mode icon:  Gasoline Mode icon: 

To determine which fuel mode has been selected turn the ignition key to the ON position without cranking the vehicle. The fuel selector switch will illuminate as **GREEN** for natural gas mode or **ORANGE** for gasoline mode.



Important: This bi-fuel NGV relies on gasoline to start, it is necessary to maintain a minimum of 1/4 tank of gasoline at all times. This vehicle will not start if it is empty of gasoline.

Starting in Natural Gas Mode

Start the vehicle as per vehicle manufacturer's instruction. Do not depress gas pedal during crank and start up. This vehicle will start on gasoline and will automatically switch to natural gas mode once required warmup parameters have been reached. The gasoline icon will illuminate **ORANGE** and the natural gas icon will blink **GREEN**. Once switch over occurs the natural gas icon will stop blinking and illuminate **GREEN** and the gasoline **ORANGE** icon will turn off.

Starting in Gasoline Mode

Start the vehicle as per vehicle manufacturer's instruction. Do not depress gas pedal during crank and start up. Gasoline mode will illuminate **ORANGE**.

Natural Gas Fuel System Leak Emergency Procedure

If you smell natural gas other than when refueling, or if you hear a hissing sound, follow these directions:

1. Park your vehicle in a well-ventilated area and apply the parking brake. Keep heat, sparks and flames away. Open all windows and the trunk lid for ventilation.
2. Turn the ignition switch to the lock position or OFF.
3. Turn off flow of natural gas to engine by turning the manual natural gas quarter turn shut off valve located under driver side door.
4. Do not drive the vehicle. Your vehicle should be towed to an authorized natural gas service facility for inspection. The complete natural gas fuel system must be inspected and tested before the vehicle can be operated again by an authorized dealership by a qualified technician.

In the Event of an Accident

Was it an "accident"? Three different types of accident damage are considered here: collisions; chemical spills; and fires. A single accident may involve all three types of damage. Running over an obstruction, such as a curb, or debris in the road can damage cylinders that are located below the vehicle and should be considered an accident.

Call the Emergency First Responders if there is an odor of natural gas after an accident, there is likely a leak in the fuel system and fire fighters should be summoned. Make sure responders know it's a natural gas vehicle? Firefighters have been trained in the different techniques necessary for natural gas vehicles and they may not notice the CNG diamond label on the rear of the vehicle.

Starting the Engine

Your NGV vehicle will start like conventional gasoline vehicle. By following the procedure outlined below you will be assured of consistent engine starts.

1. Apply the parking brake.
2. In cold weather, turn of all accessories to reduce power drain on the battery.
3. Make sure the shift lever is in park. Press and hold brake pedal down.
4. Without touching the accelerator pedal, turn the ignition switch to the ON position. You may hear a click from the in-cylinder fuel shutoff valve.
5. Turn the ignition switch to the start position. Do not hold the switch in the start position for more than 10 seconds at a time. If the engine does not start right away, pause for at least 10 seconds and try again.
6. If the engine does not start or starts but stalls right away, repeat step five with the accelerator pedal pressed half way down. If the engine starts, release pressure to the accelerator pedal so the engine does not race.
7. If the engine still does not start, repeat step five with the accelerator pedal pressed all the way down and hold it there while starting. As before, keep the ignition switch in the start position for no more than 10 seconds. Return to step 6 if the engine does not start. If the engine starts, lift your foot off of the accelerator pedal so the engine does not race.

Important - Dedicated (Natural Gas Only) vehicles require a 3-5 minute warm up period before driving to allow for smooth operation of system.

Natural Gas Fuel Level Indicator

The natural gas fuel level indicators are located on the dashboard fuel selector switch, located to left of the steering wheel on the dashboard. There are 5 fuel level lights that illuminate showing the approximate quantity of natural gas fuel remaining in the natural gas cylinder.



Natural Gas Quantity Indicators in Green

	100% FULL
	75%
	50%
	25%
	0% EMPTY

Running Out of Natural Gas

The natural gas system is programmed to automatically switch to gasoline when running out of natural gas. When this occurs, the vehicle remains in natural gas mode, but the **ORANGE** gasoline icon will light up indicating that the vehicle is now running on gasoline. A fuel level indicator will light up **RED** indicating that the natural gas cylinder is empty.

Once the vehicle has been refueled with natural gas, the natural gas system will again run on natural gas, and once again the natural gas icon will light up **GREEN**.

Precautionary Information

Always use caution when servicing or maintaining any of the alternative fuel system components. Make sure to have adequate ventilation when servicing to prevent build up that may result in combustion.

Service to natural gas system must be conducted at an authorized dealership by qualified technicians. Failure to do so may result in injury or damage to alternative fuel system.

In some areas the local authorities require that vehicles that have a natural gas system follow certain regulations and guidelines such as: Refueling, underground parking and operation of vehicle under bridges or in tunnels. Contact your local authorities for information in your area.

Breathing hydrocarbon gases like natural gas or air that lacks oxygen can result in headache, dizziness and weakness in the arms and legs. Prolonged breathing of natural gas in confined areas can result in suffocation. In the event of prolonged breathing of natural gas in confined areas, remove victim to fresh air and call your emergency response.

If your NGV is to be painted, the natural gas cylinder must be emptied before painting begins. This venting procedure must be done at an authorized dealership by qualified technicians.

Tampering with or improperly maintaining the high-pressure fuel system can result in fatality or serious injury. Never attempt to modify the fuel system and always have the fuel system maintenance performed at an authorized dealership by qualified technicians. Natural gas is a combustible fuel and is flammable and highly explosive. Failure to read and follow safety procedures can result in fatality or serious injury.

Any modification to your natural gas system may void the NGV component warranty. Do not replace components that are not approved to be used with your natural gas system. Components approved are specifically designed and calibrated NGV system. Failure to use approved components may result in personal injury or damage to vehicle.

NGV System Fuel Shut-Off Locations

Electronic Solenoid & Manual Cylinder Shut-Off Valve

The NGV system has a shut-off valve (Electronic and Manual) located on the natural gas fuel storage cylinder, usually in the cargo area or bed of the truck.

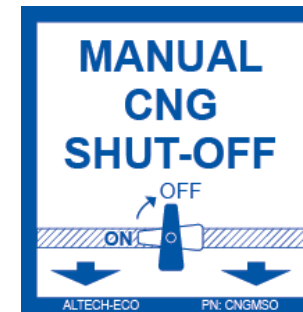
This valve has two ways to shut-off the flow of natural gas to the engine.

1. Manually, by turning the valve handle clockwise until snug. Access the valve by reaching through access point on tank cover on driver side.
2. Electronically, by turning ignition to OFF position. The electronic solenoid valve opens and closes with ignition ON and OFF.

When turning ignition ON and OFF you may hear a clicking sound when the cylinder valve opens and closes, this is normal operation.

Manual Quarter Turn Shut-Off Valve

The flow of natural gas to the engine can also be turned off manually by turning the quarter turn shut-off valve located under driver side door to OFF position. The label shown below is located on bottom of the driver side door, indicating location of the shut-off valve for first responders.



NGV Refueling Procedure

Refueling procedure can vary from station to station. The following steps explain the typical refueling process. Always read and follow instructions provided with the fueling equipment being used.

1. Park vehicle next to NGV dispenser just like a typical gasoline station.
2. Turn engine off, make sure ignition switch is set to the LOCK position and apply the parking brake.
3. Clean any dirt or debris from around the fuel receptacle.



4. Follow the instructions provided on dispenser at the refueling station on how to connect fueling nozzle.
5. Attach NGV fill nozzle to the fuel receptacle and begin dispensing fuel.
6. Once the flow of natural gas to the vehicle has stopped, follow the instructions provided on dispenser on how to shut off the flow of natural gas to vehicle cylinder.
7. Remove NGV nozzle from fuel receptacle.
8. Push lid closed on the fuel receptacle securely.

If you are not sure how to operate the refueling station, ask for assistance.

Natural Gas Fuel Quality

Your vehicle has been converted to operate on natural gas. The natural gas you use to refuel must meet the NFPA-52 and SAE J1616 standards for fuel quality. Do not use liquefied natural gas (LNG) or natural gas that is derived from a process such as flashing (heating LNG). Failure to use the correct type of natural gas may cause damage to the engine and damage the alternative fuel conversion system and void your alternative fuel components warranty.

Gasoline Fuel Quality

This vehicle must have gasoline in the vehicle at all times to operate on natural gas. We recommend using 91 octane gasoline.

Ethanol Fuel Quality

Do not use ethanol in this vehicle, it will not operate properly. Even if the originally the vehicle was designed for ethanol, the Ford ethanol calibration has been removed to allow the vehicle to operate on natural gas.

Jump Starting

Do not jump start your vehicle if you suspect a natural gas leak. If you smell gas or hear a hissing sound, the fuel system may have a leak the needs to be repaired by an authorized technician. If you suspect a leak, have the vehicle towed to an authorized service facility for inspection. If the fuel system is not leaking or damaged, you may jump-start the vehicle. Refer to the manufacturer's recommendation as listed in the original equipment Owner's Guide for jump-starting procedure.

Tire Pressure

Inflate and maintain tires to recommended pressure for extra load as listed in the original equipment Owner's Guide. Reason for this is the extra weight of alternative fuel cylinder in rear of vehicle.

Vehicle Identification and Labeling

Your vehicle has an "CNG" label located in rear of vehicle. This lets the first responders know it is a CNG powered vehicle.

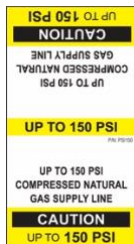
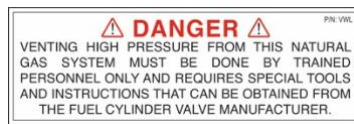
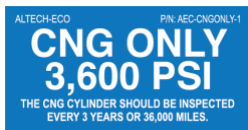


NGV system labels located in the engine. The NGV systems master serial number (MS#) is located on the EPA Vehicle Emissions Control Information decal.

VEHICLE EMISSION CONTROL INFORMATION			
	ALTECH-ECO CORPORATION	MS#	21-F62-137
101 Fair Oaks Road • Arden, North Carolina 28704 • Phone 828-654-8300			
This vehicle is equipped with a clean alternative fuel aftermarket conversion system designed to operate on compressed natural gas (CNG) or gasoline. This clean alternative fuel conversion system has been certified to meet EPA emission standards. This conversion was manufactured and installed consistent with the principles of good engineering judgment and all U.S. EPA regulations and treated only on R22 models in the Ford test group #FWD06-288C and #FWD06-2504. THIS VEHICLE IS EXCLUDED UNDER 49 CFR 1037.150(c).			
CONFORMS TO EPA REGULATIONS:		U.S. EPA: 13E2005 HDV	OBD: F II
MODEL YEAR 2021	FUEL: CNG or Gasoline	MACROFORDN1, MACROFORDN2, MACROFORDN3, MACROFORDN4, MACROFORDN5, MACROFORDN6, MACROFORDN7, MACROFORDN8, MACROFORDN9, MACROFORDN10, MACROFORDN11, MACROFORDN12, MACROFORDN13, MACROFORDN14, MACROFORDN15, MACROFORDN16, MACROFORDN17, MACROFORDN18, MACROFORDN19, MACROFORDN20, MACROFORDN21, MACROFORDN22, MACROFORDN23, MACROFORDN24, MACROFORDN25, MACROFORDN26, MACROFORDN27, MACROFORDN28, MACROFORDN29, MACROFORDN30, MACROFORDN31, MACROFORDN32, MACROFORDN33, MACROFORDN34, MACROFORDN35, MACROFORDN36, MACROFORDN37, MACROFORDN38, MACROFORDN39, MACROFORDN40, MACROFORDN41, MACROFORDN42, MACROFORDN43, MACROFORDN44, MACROFORDN45, MACROFORDN46, MACROFORDN47, MACROFORDN48, MACROFORDN49, MACROFORDN50, MACROFORDN51, MACROFORDN52, MACROFORDN53, MACROFORDN54, MACROFORDN55, MACROFORDN56, MACROFORDN57, MACROFORDN58, MACROFORDN59, MACROFORDN60, MACROFORDN61, MACROFORDN62, MACROFORDN63, MACROFORDN64, MACROFORDN65, MACROFORDN66, MACROFORDN67, MACROFORDN68, MACROFORDN69, MACROFORDN70, MACROFORDN71, MACROFORDN72, MACROFORDN73, MACROFORDN74, MACROFORDN75, MACROFORDN76, MACROFORDN77, MACROFORDN78, MACROFORDN79, MACROFORDN80, MACROFORDN81, MACROFORDN82, MACROFORDN83, MACROFORDN84, MACROFORDN85, MACROFORDN86, MACROFORDN87, MACROFORDN88, MACROFORDN89, MACROFORDN90, MACROFORDN91, MACROFORDN92, MACROFORDN93, MACROFORDN94, MACROFORDN95, MACROFORDN96, MACROFORDN97, MACROFORDN98, MACROFORDN99, MACROFORDN100	
TEST GROUP: MAEC006-288C	EVAP FAMILY: MAECF0000N1, MAECF0000N2, MAECF0000N3, MAECF0000N4, MAECF0000N5, MAECF0000N6, MAECF0000N7, MAECF0000N8, MAECF0000N9, MAECF0000N10, MAECF0000N11, MAECF0000N12, MAECF0000N13, MAECF0000N14, MAECF0000N15, MAECF0000N16, MAECF0000N17, MAECF0000N18, MAECF0000N19, MAECF0000N20, MAECF0000N21, MAECF0000N22, MAECF0000N23, MAECF0000N24, MAECF0000N25, MAECF0000N26, MAECF0000N27, MAECF0000N28, MAECF0000N29, MAECF0000N30, MAECF0000N31, MAECF0000N32, MAECF0000N33, MAECF0000N34, MAECF0000N35, MAECF0000N36, MAECF0000N37, MAECF0000N38, MAECF0000N39, MAECF0000N40, MAECF0000N41, MAECF0000N42, MAECF0000N43, MAECF0000N44, MAECF0000N45, MAECF0000N46, MAECF0000N47, MAECF0000N48, MAECF0000N49, MAECF0000N50, MAECF0000N51, MAECF0000N52, MAECF0000N53, MAECF0000N54, MAECF0000N55, MAECF0000N56, MAECF0000N57, MAECF0000N58, MAECF0000N59, MAECF0000N60, MAECF0000N61, MAECF0000N62, MAECF0000N63, MAECF0000N64, MAECF0000N65, MAECF0000N66, MAECF0000N67, MAECF0000N68, MAECF0000N69, MAECF0000N70, MAECF0000N71, MAECF0000N72, MAECF0000N73, MAECF0000N74, MAECF0000N75, MAECF0000N76, MAECF0000N77, MAECF0000N78, MAECF0000N79, MAECF0000N80, MAECF0000N81, MAECF0000N82, MAECF0000N83, MAECF0000N84, MAECF0000N85, MAECF0000N86, MAECF0000N87, MAECF0000N88, MAECF0000N89, MAECF0000N90, MAECF0000N91, MAECF0000N92, MAECF0000N93, MAECF0000N94, MAECF0000N95, MAECF0000N96, MAECF0000N97, MAECF0000N98, MAECF0000N99, MAECF0000N100		
Installed by: Altech-Eco Corp.	Install Date: 1-20-21	Mileage: 150	
Address: 101 Fair Oaks Rd.	City: Arden	State: NC	
Zip: 28704	Phone #: 828-654-8300		

WARNING		PIN: CYLEXP
CNG SERVICE PRESSURE: 24,800 kPa (3,600 PSIG)		
CNG CYLINDER / CONTAINER INFORMATION:		
WATER VOLUME IN GALLONS:	EXPIRATION DATE:	
THIS VEHICLE IS FUELED BY COMPRESSED NATURAL GAS WHICH IS STORED IN A CNG CYLINDER AT HIGH PRESSURE. TO AVOID RISK OF INJURY, DO NOT ATTEMPT TO SERVICE THE FUEL SYSTEM WITHOUT PROPER SYSTEM DEPRESSURIZATION. ONLY A QUALIFIED TECHNICIAN SHOULD SERVICE THIS VEHICLE. DO NOT USE CNG CYLINDER AFTER ITS EXPIRATION DATE.		
THE CNG CYLINDER / CONTAINER SHOULD BE VISUALLY INSPECTED AFTER A MOTOR VEHICLE ACCIDENT OR FIRE AND AT LEAST EVERY 3 YEARS OR 36,000 MILES, WHICH EVER COMES FIRST, FOR DAMAGE AND DETERIORATION.		

Additional NGV labels.



NGV System Components

The fuel system components include a fuel cylinder located in the trunk, integrated fuel pressure regulator, in-cylinder fuel shutoff valve, high-pressure fuel lines, electronically controlled natural gas fuel injectors and other equipment.

Do not replace components that are not approved to be used with your natural gas system. Components approved are specifically designed and calibrated for your natural gas system. Failure to use approved components may result in personal injury or damage to vehicle.

Types of Fueling Available

There are two common methods for fueling your vehicles natural gas cylinder(s).

- Fast-fill – available at most commercial and private refueling stations. It takes approximately 3 to 5 minutes to fill up the NGV cylinder.
- Slow-fill – usually fueled with a Home Refueling Appliance (HRA). These devices fill approximately one gasoline gallon equivalent (GGE) per hour.

When refueling you should use a fuel fill nozzle that complies with ANSI/AGA NGV-1-1994 standards. Nozzles are designed according to their maximum fill pressure. P24 for 2400 psi, p30 for 3000 psi and p36 for 3600 psi. This vehicle has a maximum fill pressure of 3600 psi., so you should refuel with a p36 nozzle.

To obtain information about the location of natural gas refueling stations in the United States, visit www.afdc.doe.gov for a complete listing of stations and other useful information.