

Supplemental Owner's Manual and Warranty Information

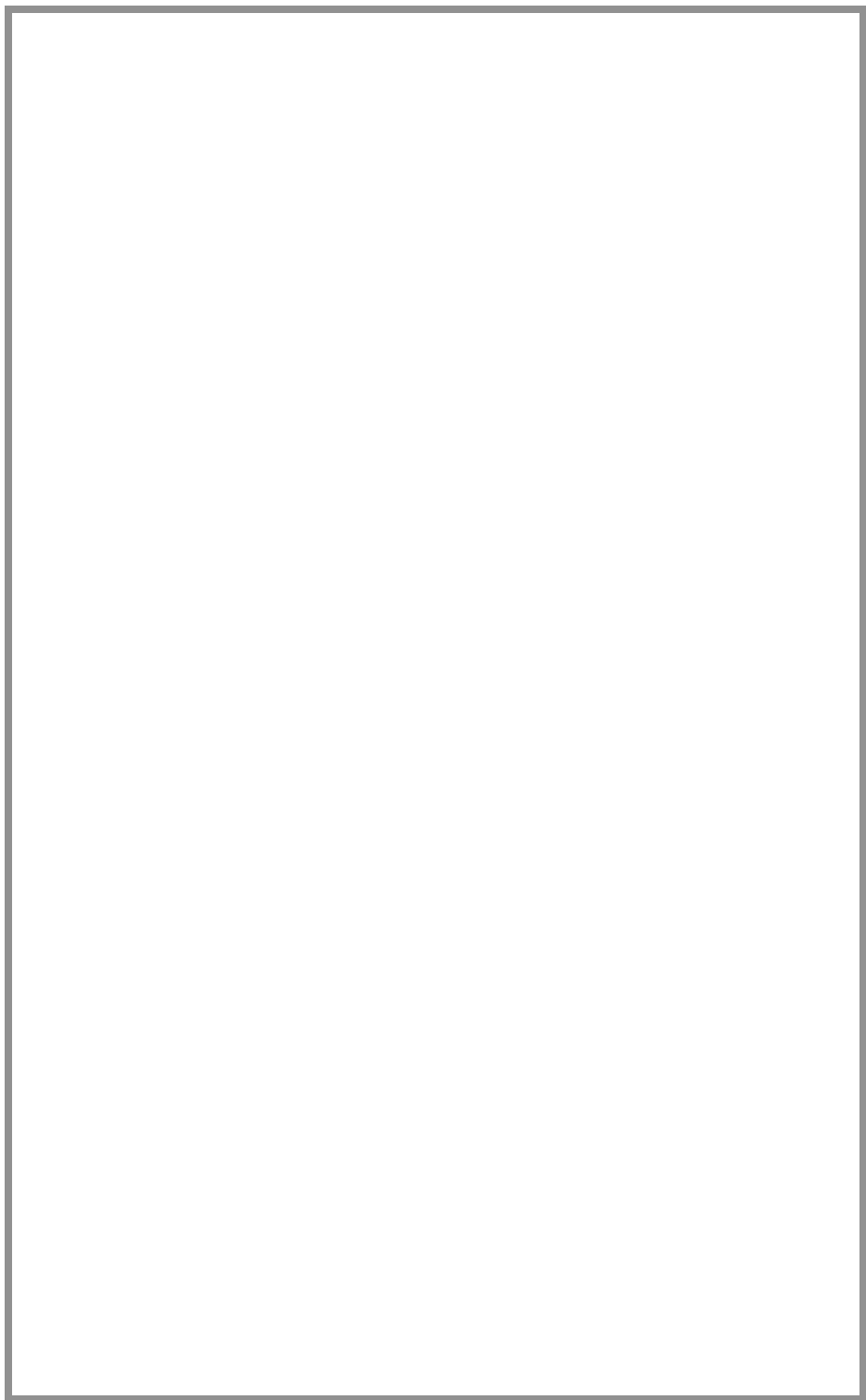
**Landi Renzo USA
Compressed Natural Gas (CNG) Vehicle**

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

CNG System Installed by



LANDIRENZO®
USA



Supplemental Owner's Guide

INTRODUCTION	2
ABOUT THIS MANUAL	2
WARNINGS	2
WARRANTY INFORMATION	3
ABOUT NATURAL GAS VEHICLES.....	4
FUEL	4
COMPRESSED NATURAL GAS	4
REFUELING STATION INFORMATION	6
REFUELING	6
FUEL SYSTEM COMPONENTS	7
VEHICLE OPERATION	8
STARTING THE ENGINE	8
STARTING IN COLD WEATHER/HIGH ALTITUDE	8
FUEL CUTOFF SYSTEM	9
STORING YOUR VEHICLE	10
CARRYING CARGO	10
HIGH SPEED DRIVING	10
FUEL LEVEL OPERATION	11
BI-FUEL OPERATION (IF EQUIPPED)	12
CNG INDICATOR LIGHT	12
FUEL MODE AFTER A START	12
RUNNING OUT OF CNG (BIFUEL ONLY)	12
OBD FAULTS	12
INSTRUMENT PANEL	13
DASH PANEL	13
FUEL GAUGE	13
SERVICE ENGINE SOON LIGHT	14
SERVICING YOUR VEHICLE	15
MAINTENANCE SCHEDULE	15
SCHEDULED MAINTENANCE – ALL CNG AND BI-FUEL ENGINES	16
FUEL FILTRATION	17
LEAK DETECTION	18
FUEL SYSTEM LEAK - JUMP STARTING	18
FUEL CYLINDER INTEGRITY	19
WELDING	20
JACKING/LIFTING	20
TOWING	21
CUSTOMER ASSISTANCE.....	26
VEHICLE AND FUEL SYSTEM INFORMATION	27
HIGH PRESSURE FILTER MAINTENANCE LEDGER	28
LOW PRESSURE FILTER MAINTENANCE LEDGER	29

Introduction

About this manual

This booklet supplements the owner guide and must remain with the vehicle. Replacements booklets may be obtained through Landi Renzo's service department, (855) 526-3400 (See Customer Assistance). The manual describes the operation of this natural gas vehicle (NGV). The information contained in this guide is critical for all passengers and operators of this natural gas vehicle. This manual should be read thoroughly to familiarize operators and passengers with the unique features of this and other natural gas vehicles. Some instructions in this manual replace certain instructions in the factory owner's guide. Refer to the factory owner's guide for missing vehicle information not found in this supplement.

For records and to aid in any repair or maintenance of the vehicle, please complete the Vehicle and Fuel System Information section of this supplement with the specific data about this vehicle. For service or any other help with this natural gas vehicle, contact Landi Renzo at (855) 526-3400.

In order to activate your vehicle's warranty, please complete and return the Warranty Registration form to registration@landiusa.com. Please email registration@landiusa.com or call (855) 526-3400 to obtain a copy of this form.

Warnings

Please closely scrutinize all warnings written in this supplement. These sections contain information critical to the safety of NGV operators and others. Additionally, understanding the warning can prevent excessive and permanent damage to the persons, vehicle and powertrain components.

ATTENTION

Service pressure 24,800 kPa (3,600 psig). See instructions on fuel container for inspection and service life.

Warranty Information

The normal, factory vehicle warranties will apply to this NGV. For further information, contact Landi Renzo (see Contact information).

Specified maintenance procedures must be followed. Repairs must be made by trained personnel. It is imperative for this NGV is maintained by a qualified technician. If a problem occurs, it is important that properly trained personnel diagnose and repair the cause. If the problem relates to the fuel system, proper part replacement is critical to keep this vehicle operating correctly. NGV fuel system components and standard gasoline fuel system components are not interchangeable. If the NGV is not maintained in accordance with approved service procedures, damage may occur and the warranty may be invalidated.

Any unauthorized modification to the fuel system of this natural gas vehicle voids the Landi Renzo warranty.

ATTENTION

Ensure that your vehicle's warranty is activated by contacting Landi Renzo USA at registration@landiusa.com or by calling (855) 526-3400. This will ensure that you are notified of service notifications and warranty recalls on your vehicle.

About Natural Gas Vehicles

Fuel

This natural gas vehicle operates on compressed natural gas (CNG). This vehicle is designed to run on CNG that meets North American standards, NFPA-52 and SAE J1616 for fuel composition. Dissimilar fuel compositions will decrease engine power and damage the emissions control system, including high cost components such as injectors, catalytic convertors, and pressure regulators.

Compressed Natural Gas

Compressed natural gas, comprised mostly of a highly flammable, colorless gas known as methane, is the same gas that is burned in everyday home appliances such as ovens. A detecting odorant known as mercaptan, or thiol, is added to the fuel to aid in the detection of its presence. Thiol can be detected by a strong odor similar to garlic fumes.

The natural gas stored in this vehicle contrasts to the natural gas used in a home appliances in that natural gas vehicle fuel is stored under high pressure (3,600 psig/24,800 kPa). The components that comprise the CNG fuel system in this vehicle, including the hoses, lines, fittings, valves and cylinders, have been designed to withstand high operating pressures.

WARNING

Only trained and qualified personnel should service this natural gas vehicle. Components in the fuel system are under extreme pressure. Severe injury or death can result from improper service and safety precautions.

Operators should never detect (smell) gas or hear gas escaping at any other time besides refueling. If the smell of natural gas or a hissing sound is detected at any time besides refueling, the CNG system should be shut down. See Fuel Cutoff System in this section.

 **WARNING**

Compressed natural gas is flammable and highly explosive. The operator or others could be killed or seriously injured if leaking natural gas ignites.

If a leak is suspected, have the vehicle immediately inspected and repaired by an authorized Landi Renzo natural gas vehicle technician.

All vehicles in North America that utilize natural gas as a fuel are required to have a blue diamond, CNG sticker located on the rear, passenger side of the vehicle. This label is necessary for insurance purposes. Driving without this label violates laws or regulations in some states.



Refueling station information

For information regarding the location of compressed natural gas (CNG) refueling stations, contact the Natural Gas Vehicle Coalition (NGVC) at (202) 824-7360.

Online

US

<http://www.altfuelprices.com>

California Only

<http://www.cngvc.org>

Refueling

There are two methods of refueling, fast filling or slow filling. Typical public fuel stations for natural gas vehicles in North America are fast fill stations. Slow filling is done with a vehicle refueling appliance, typically overnight. Always observe all safety recommendations and operating instructions using refueling equipment.

When refueling, a fuel fill nozzle that complies with ANSI/AGA NGV-1-1994 standards is required. Nozzles are designed according to their maximum fill pressure: P24 for 2,400 psig, P30 for 3,000 psig, and P36 for 3,600 psig (24,800 kPa).

This vehicle is equipped with a P36 nozzle for a maximum fill pressure of 3,600 psig (24,800 kPa). Refueling should be performed with a P36 nozzle. Using a P30 nozzle will fill the cylinder below the full mark on the fuel gauge. Using a P24 nozzle will fill the cylinder to roughly half of the cylinder's capacity.

WARNING

During a fast fill, the temperature of the natural gas increases, reducing the amount of fuel that a fuel cylinder can hold at a given temperature. Using fast filling stations in hot environments can reduce the useable capacity of the fuel cylinders and the amount of fuel that can be stored on board a natural gas vehicle. See the Fuel Level Operation section in this manual for further detail.

Fuel System Components

Fuel system components include:

- A fuel cylinder (s)
- A fuel pressure regulator
- An automatic solenoid shutoff valve
- A manual quarter turn valve
- Low and high pressure fuel lines and hose
- Electronically controlled multipoint fuel injectors
- Fuel filter
- Other equipment

Fuel system components comply with NFPA-52 and North American NGV standards. Your vehicle is equipped with parts that have been designed and approved for use in a compressed natural gas vehicle. Replacing any original components or parts with those specified for a gasoline powered vehicle is not recommended. Improper parts or components can damage your vehicle's fuel system and affect your vehicle's safety and performance.

Vehicle Operation

Starting the engine

1. Apply the parking brake.
2. In cold weather, turn off all electrical accessories to reduce the drain on the battery.
3. Make sure the shift lever is in Park.
4. Press on the brake pedal.
5. Without touching the accelerator pedal, turn the ignition switch to the ON position. An audible clicking noise may be heard from the automatic solenoid valves.
6. Turn the ignition switch to the START position. Do not hold the switch in the START position for more than 15 seconds at a time.
7. If the engine does not start right away, pause for at least 10 seconds before trying again.

Make sure the service engine soon light goes out once normal engine operation is underway (Refer to the Dash Panel section of this supplement for clarification).

Starting in Cold Weather/High Altitude

Cold weather increases the chance of the engine not starting. The thin air found at high altitudes, above 5,000 feet (1,600 meters), further increases the difficulty of starting. Properties of CNG further complicate the task of starting the engine in cold weather.

If the intended driving environment of the vehicle is in cold weather, ensure that the battery is fully charged by driving several miles every day or by using a charger.

Use the following Procedure to start the engine in cold weather and/or high altitude conditions:

1. Turn off all electrical accessories to reduce the drain on the battery.
2. Push the accelerator pedal halfway to the floor and hold it there while starting the engine. Do not hold the ignition switch in the START position for more than 15 seconds. When the engine starts, release the accelerator pedal gradually as normal engine operation occurs.
3. If the engine fails to start in step 2, push the accelerator pedal to the floor and hold it there while starting the engine for no more than 15 seconds. If the engine does not start, return to step 3.

Make sure the check engine soon light goes out once normal engine operation occurs (Refer to the Dash Panel section of this supplement for clarification).

Fuel Cutoff System

A manual shutoff valve is located along the high pressure lines between the fuel cylinder and the pressure regulator. Be familiar with the valves location which should be marked by a decal. The operator must be able to quickly access this manual valve. Fuel system maintenance and repair should be done only by a qualified NGV technician. To turn off the valve, turn the lever one-quarter turn clockwise. Turn it counterclockwise to turn the valve on. Turn off the valve if there is a suspected fuel leak or the vehicle is involved in an accident.

WARNING

Tampering with, or improperly maintaining the high-pressure fuel system can cause a dangerous condition in which the operator and others can be seriously hurt or killed. Never attempt to modify the fuel system, and always have fuel system maintenance performed by a qualified NGV technician.

Storing Your Vehicle

If the natural gas vehicle must be stored for an extended period, the following recommendations should be followed:

1. Turn the manual shutoff valve to the OFF position (see Fuel Cutoff System section in this supplement).
2. If vehicle is stored indoors, it should be parked in a well-ventilated area. The installation of a natural gas leak detector is recommended.
3. After storing your vehicle for an extended period of time and before starting the engine for the first time, open the trunk and engine compartment and leave it open for several minutes. This allows any natural gas vapors that may have collected to dissipate.

Carrying Cargo

Loose items must be secure to prevent shifting during vehicle operation. Special concern should be taken to prevent any cargo from impacting fuel cylinders. Loose items may become lodged against the fuel cylinder or other fuel system components, damaging them overtime in the harsh conditions and vibration during normal vehicle operation. See the vehicle modifier's label (usually on the B-pillar inside the doorframe) for the available payload of this natural gas vehicle. The default available payload will be modified from the factory system. Contact Landi Renzo for further information.

High Speed Driving

Speeding creates the potential for loss of control and personal injury. Adverse road conditions should be respected with proper levels of caution. Driving at high speeds for extended periods, under certain circumstances may result in damage to vehicle components. The CNG system installed on this vehicle may disable the limiter function installed in some factory fuel systems. Aggressive driving may cause damage to the engine and powertrain components. It is critical to observe all posted speed limits and warnings.

Fuel Level Operation

The fuel level on the gauge can be misleading when the temperature of the fuel in the tank varies. This is most noticeable after filling the tanks. The gauge reading is a function of pressure. When the tanks are filled, the gas is compressed, which causes a temperature rise. When the temperature of a gaseous fuel rises, the pressure also rises. This results in the tank(s) not being as full as possible. If the vehicle is filled to 3600psig and it just sits until the tank temperature stabilizes with the ambient temperature, the pressure may decrease to 3200psig, even though no fuel has been used. While driving away from the fill station the temperature of the fuel in the tank will decrease faster since the pressure is decreasing as fuel is being used. **It is normal to fill a vehicle in cool climates, and then drive 15 miles and the fuel gauge will read $\frac{3}{4}$ full due to the fuel temperature decrease.** The fuel level may seem lower in the morning since ambient temperature is normally lower than the previous evening. Ambient temperature swings may show more or less fuel level, but the amount of fuel is still the same. At temperature extremes this could result as a very noticeable increase or decrease in fuel level. A fuel level of $\frac{3}{4}$ full at 85F can result as $\frac{3}{8}$ full (no fuel was used) if the temperature dropped to -20F. While this is unrealistic in the real world, the pressure will change with temperature.

Bi-fuel Operation (If equipped)

The following information applies **ONLY** if you have a bi-fuel CNG/Gasoline vehicle. Disregard this section if your vehicle is Dedicated CNG.

CNG Indicator Light

The CNG Indicator LED will illuminate when the CNG injectors are delivering fuel. During a deceleration, the injectors (gasoline or CNG) may shut off to conserve fuel if the conditions are met. The CNG LED will stop illuminating during this “decel fuel cut-off”. While it appears it is going back into the gasoline mode, it is still in the CNG mode, but not injecting any fuel. **It is normal operation for the CNG LED to go off during decelerations and resume when conditions are met to resume the injections.**

Fuel Mode after a Start

Switching fuel within 45 seconds after a start is inhibited. If the engine is started in gasoline mode, and then the CNG switch is switched to CNG, the engine will be in the gasoline mode for 45 seconds before switching to CNG. If the engine is started in CNG mode, and then the CNG switch is switched to gasoline, the engine will be in the CNG mode for 45 seconds before switching to gasoline. Also if battery power is lost or the PCM/AFCM has been re-flashed, the engine will start on gasoline and not allow CNG operation for 45 seconds. During normal operation, the engine will start on the fuel indicated by the switch.

Running out of CNG (Bifuel Only)

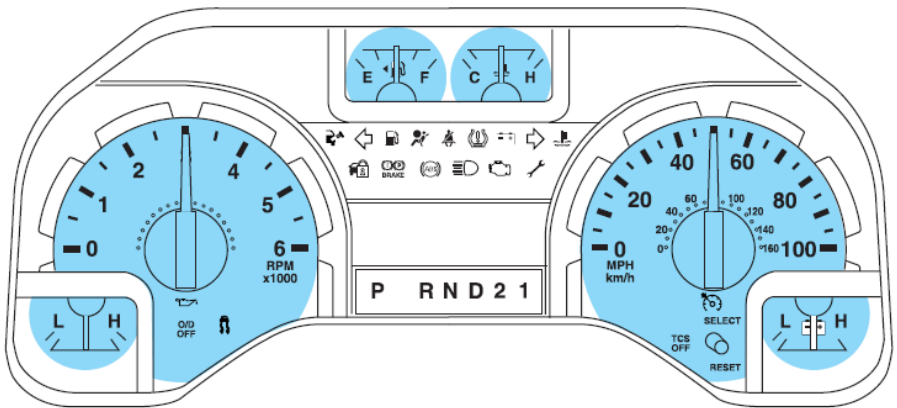
If the fuel rail pressure drops below 100psig, it is assumed the CNG fuel tank(s) cannot supply the volume of fuel the engine requires. When this occurs, the system will automatically switch to gasoline mode. It will remain in the gasoline mode until the tank pressure increases above 600 psig before the next start. In other words, the engine will not run on CNG until the CNG tanks are filled.

OBD Faults

Certain OBD faults will cause the system to revert to gasoline mode. It will stay in gasoline mode until the faults are fixed and cleared.

Instrument Panel

Dash Panel



The instrument panel will remain identical to the gasoline version of the vehicle. Carefully monitor all warning lights, gauges, and messages during normal vehicle operation. The above image reflects a dedicated CNG vehicle. On bifuel vehicles, the OEM fuel gauge will reflect the gasoline fuel level, and there will be a supplemental gauge that will show the CNG fuel level. See Bi-fuel Operation section for more information.

Fuel Gauge



The fuel gauge in your NGV behaves similarly to a typical gasoline fuel gauge. However, the gauge operation is based on the pressure and/or temperature of the natural gas. Due to the expansion or contraction of gases during changing environmental conditions (and those experienced during a fast fill), the operator may note small fluctuations in the gauge. A drop in the fuel gauge reading soon after a fast fill is a natural outcome of a fast fill and not a cause for concern. Contact Landi Renzo to report technical issues with the operation of the fuel gauge.

Service Engine Soon Light



The Service Engine Soon Light, pictured above, illuminates briefly when the ignition is turned to the ON position. If the light does not shut off after the engine has started, the On Board Diagnostics System (OBD-II) contains an error code. This condition should be serviced by a trained CNG technician as early as possible. Drive moderately until the trained technician has inspected the problem. Avoid full throttle acceleration and driving at high speed. A trained technician will use the error code to pinpoint the source of the problem.

A blinking Service Engine Soon Light indicates that a misfire or another serious condition is occurring that may damage your emissions system. Drive in a moderate fashion to the closest service center or contact your authorized CNG service center immediately.

Servicing your vehicle

Maintenance Schedule

Fuel filtration maintenance is a unique service item that is required to properly maintain a natural gas vehicle. Fuel system maintenance and repair should be done only by an authorized Landi Renzo service technician or service center.

The following maintenance items are specific to the alternative fuel system on your vehicle. These items are required *in addition* to the maintenance items listed in your OEM owner manual. Be sure to record the date, mileage, and who performed the service in the Maintenance Record.

Note:

- Service items not listed on the following page must be maintained as per the manufacturer's recommended intervals
- Immediately following CNG service repairs, a full pressure leak check must be carried out at 3600psig, as per NFPA 52, Section 6.12.2
- Items listed on the following page that are marked with an ** must be serviced by a certified Landi Renzo service technician or service center
- It is the responsibility of the service/repair facility to ensure that they are compliant with all Federal and State requirements, as per their geographic location

WARNING

It is mandatory that all CNG vehicles undergo a complete inspection by trained and authorized personnel every 36,000 miles or 3 years, whichever comes first. This inspection will include a cylinder integrity check, as well as checks of the high pressure and low pressure lines and components.

Scheduled Maintenance – All CNG and Bi-Fuel Engines

The services shown in this schedule up to 100,000 miles should be performed after 100,000 miles at the same intervals. The schedule below reflects *minimum* requirements; depending vehicle usage, fuel quality, and geographic location, more frequent service may be required.

Every 3,000 Miles or 3 months, whichever comes first	<ul style="list-style-type: none"> • Drain the fluids from the high pressure and low pressure CNG coalescing filter housings (If equipped with drain housing)
Every 5,000 Miles or 5 months, whichever comes first	<ul style="list-style-type: none"> • Replace low pressure filter element
Every 7,500 Miles or 7 months, whichever comes first	<ul style="list-style-type: none"> • Inspect the CNG fuel lines and fittings for leaks or damage • Inspect the CNG fill valve O-Ring • Replace the CNG coalescing filter elements in the high pressure filter
Every 10,000 Miles or 12 months, whichever comes first	<ul style="list-style-type: none"> • Inspect CNG Tank Shields for damage • Check PCM Data Stream for Correct Readings: <ul style="list-style-type: none"> ○ Long term fuel trims ○ Short term fuel trims ○ Oxygen sensor voltages
Every 25,000 Miles	<ul style="list-style-type: none"> • Inspect Spark Plugs
Every 50,000 Miles	<ul style="list-style-type: none"> • Replace Spark Plugs and Inspect spark plug wires
Every 100,000 Miles (or as required)	<ul style="list-style-type: none"> • Replace Ignition Coils
Every 80,000 Miles (or as required)	<ul style="list-style-type: none"> • Replace Oxygen sensors

Engine oil should be replaced at the Service intervals specified in your vehicle owner’s manual OR 300 engine hours, whichever comes first. Never exceed 500 hours on any engine oil. See your vehicle owner’s manual for instructions on reading the engine hours from the instrument panel, or install an hour meter on your vehicle.

Fuel Filtration

As with any fuel system, contamination of the CNG fuel can result in poor engine performance. Older or poorly maintained CNG filling stations can pass compressor oil into natural gas fuel system during the fast fill process. Maintaining proper filtration is critical to the operation of expensive powertrain components such as fuel injectors and regulators. Regular maintenance can prevent fuel system contamination. Contaminated Fuel Injectors are not covered under the system warranty.

This vehicle may be equipped with a low pressure fuel filter assembly located between the pressure regulator and the CNG injectors. A high-pressure coalescent filter is installed between the CNG storage cylinders and the pressure regulator. The high pressure coalescent filter assembly is a two-piece housing which includes a removable sump area that allows liquid contaminants such as oil to drop out of the flow of CNG. A drain plug installed in the filter housing provides a convenient method to drain off any liquid that may accumulate. The coalescent filter is designed to filter down to 10 micron size contaminants. Replacement filter elements should be ordered to meet the 10 micron specification.

WARNING

Only trained and qualified personnel should service this natural gas vehicle. Components in the fuel system are under extreme pressure. Severe injury or death can result from improper service and safety precautions.

Leak detection

As a regularly scheduled maintenance item, a leak check must be performed every 3 months or 3,000 miles (4800 km). Small leaks will occur due to vibration, thermal fluctuations and other environmental conditions on the road. The most advanced or current leak detection methods must be used to perform an examination of every connection and fuel system component. For the most accurate testing, the system must be fully pressurized with all control valves open (often, this requires the vehicle to be in the ON condition). To properly test for leakage in the low-pressure components the engine must be running due to automated electronic safety valves installed within the system. At any time other than refueling, if the smell natural gas is detectable or a hissing sound is audible, operators should assume that the vehicle has a leak.

Fuel System Leak - Jump Starting

Do not jump start this vehicle if a natural gas leak is suspected. Leaks must be repaired by a qualified NGV technician. If a leak is suspected, park your vehicle in a well-ventilated area, and apply the parking brake. Keep heat, sparks, and flame away. Open the windows, hood and (if equipped) the trunk lid for ventilation. Turn the ignition switch to the OFF position. Locate and turn the manual shutoff valve to the OFF position. Turning the key off and closing the quarter turn valve will eliminate flow of gas to the engine compartment from fuel cylinder to the engine compartment. The vehicle cannot continue regular operation; it should be towed to an authorized technician for repair.

WARNING

Compressed natural gas is flammable and highly explosive. Operators or those nearby may be killed or seriously injured if leaking natural gas is ignited. If a leak is suspected, have the vehicle immediately inspected and repaired by an authorized natural gas vehicle technician.

Fuel Cylinder Integrity

The fuel cylinder(s) meets the safety standards of NGV-2/NFPA-52/DOT NHTSA FMVSS 304. The fuel cylinders must be inspected every 3 years after the production date. Have a certified CNG cylinder inspector or a qualified dealer inspect the fuel cylinder(s) for leaks and damage. Obtain and maintain records of this service outside of the vehicle.

The fuel cylinder must be inspected after a collision. Have a qualified NGV technician inspect the fuel cylinder for damage and leaks in the fuel system.

The fuel cylinder must be replaced by the manufacturer's expiration date. The expiration date can be found on a label on the fuel cylinder and on a warning decal installed on the vehicle. Have a qualified NGV technician replace the fuel cylinder.

WARNING

Do **NOT** use expired CNG cylinders. Using cylinders after the expiration date is a serious risk that can result in serious bodily harm or even death.

Defueling

Your natural gas vehicle may be equipped with a defueling mechanism. Defueling should only be performed by qualified personnel at an authorized service center.

WARNING

Do **NOT** attempt to vent or defuel your natural gas vehicle. Failure to do so may result in cylinder damage, serious bodily harm, or even death. Defueling or depressurization of your vehicle should be performed only by qualified personnel in the manner consistent with federal, state, and local laws and regulations.

Welding

Never weld on or near CNG fuel system components. Only trained personnel are recommended to service this vehicle. Unauthorized modification may void the Landi Renzo powertrain warranty.

WARNING

Compressed natural gas is flammable and highly explosive. Operators or those nearby may be killed or seriously injured if leaking natural gas is ignited. If a leak is suspected, have the vehicle immediately inspected and repaired by an authorized natural gas vehicle technician.

Jacking/Lifting

Natural gas vehicles can be lifted using the same procedures described in the vehicle owner's guide, with the following extra precautions:

1. Make sure the area is well ventilated and no incandescent bulbs or other ignition sources (hot lights, sparks) exist in the area where the vehicle is being lifted.
2. Locate and turn the manual shutoff valve AND the cylinder valves to the OFF position. (See Fuel Cutoff System section for further detail)
3. The natural gas fuel system should never be used to lift the vehicle. All components must be free from contacting any point of the lifting apparatus.

Towing

Your CNG vehicle can be towed using the instructions found in the vehicle owner's guide, including the following additional steps:

1. Locate the vehicle's Manual Shut-off Valve and set to the closed position
2. Ensure the ignition key is in the OFF position
3. On vehicles utilizing CNG cylinders equipped with manual shut-off valves, close all CNG cylinder valves before towing
4. Never attach tow bars, tow chains or safety chains to any natural gas fuel system component
5. Never allow tow bars, tow chains or safety chains to contact natural gas fuel system component

Amendments

Amendments

Amendments

Amendments

Customer Assistance

Utilimaster Corporation Warranty/Service Support

603 Earthway Blvd

Bristol, IN 46507 USA

Tel: (800) 237-7806 ext. 2109

Fax: (574) 848-2809

Email: info@utilimaster.com or tposey@utilimaster.com

Landi Renzo USA Corporation Service Dept.

23535 Telo Ave.

Torrance, CA 90505 - USA

Tel: (855) 526-3400

Fax: (310) 539-3041

E-mail: service@landiusa.com

Landi Renzo USA Warranty Registration

Tel: (855) 526-3400

Fax: (310) 539-3041

E-mail: registration@landiusa.com

Vehicle and Fuel System Information

For your records and to assist with repairs or maintenance of your new natural gas vehicle, please complete the following sections with the specific data from your vehicle. For service or any other help with your CNG vehicle contact Landi Renzo at (310) 257-9481.

Vehicle Identification Number (VIN)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Warranty Start Date	Warranty Starting Mileage

Regulator Serial #

CNG Fuel Cylinder Information

Manufacturer	Size	Serial #	Capacity	Exp. Date

High Pressure Filter Maintenance Ledger

Change No.	Date	Actual Mileage
1		
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Low Pressure Filter Maintenance Ledger

Change No.	Date	Actual Mileage
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Contact Information

System Supplier

Landi Renzo USA Corporation

23535 Telo Ave.

Torrance, CA 90505 - USA

Tel: (855) 526-3400

Fax: (310) 539-3041

E-mail: service@landiusa.com

Warranty Registration: registration@landiusa.com

System Installer

Utilimaster Corp.

603 Earthway Blvd

Bristol, IN 46507 USA

Tel: (800) 237-7806

Fax: (574) 848-2809

Email: info@utilimaster.com

Technical Manuals: www.utilimaster.com/manuals