

A new and improved

WESTWARD
Industries

THE URBAN UTILITY VEHICLE

GO-4 *INTERCEPTOR.IV*

SPACE SAVING - ERGONOMICAL - EFFICIENT
TAILORED DESIGN - RETURN ON INVESTMENT - DOMESTICALLY BUILT

OPERATOR'S MANUAL



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The description and specifications contained in the operator's manual were in affect at the time the manual was approved for printing. Westward Industries Ltd. has the right to discontinue models at any time, or change specifications or design, without notice and without incurring obligation.

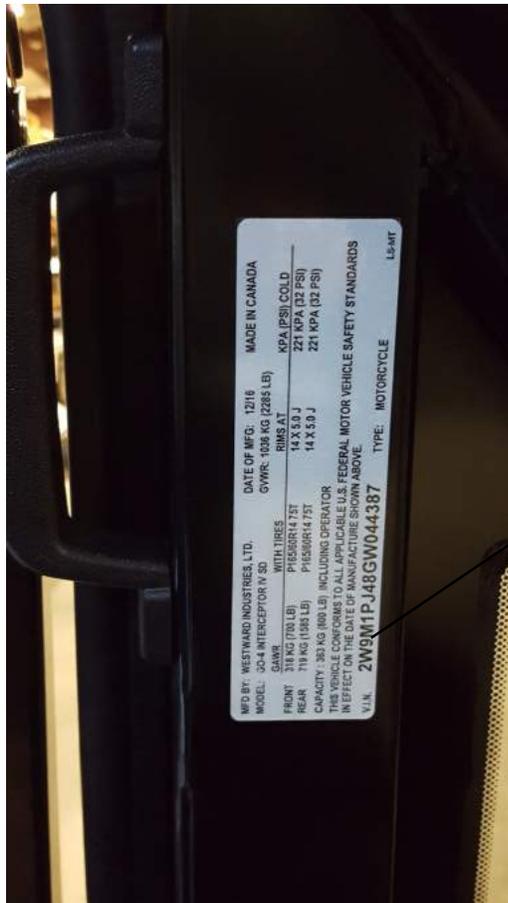
GENERAL INFORMATION

The Westward Industries GO-4 is powered by a 998cc 3-cylinder water cooled engine. The engine power is transferred to the drive wheels by a four speed automatic transmission.

Vehicle Identification Number

The decal is located on the front inside left post.

V.I.N.#



General Information – cont'd

Engine Number

Is stamped right on the cylinder head cover. It is advised upon deliver to record this number with your permanent record les.

Engine No. _____

Vehicle Emission Control Information Decal
Is located front of the engine cab.

Engine Number
Sticker



SAFETY

CAUTIONS and WARNINGS

Throughout the operator's manual, you will find Cautions and Warnings.

Warnings remind you to be especially careful to avoid personal injury.

Cautions are provided to prevent you from making an error, which could damage the vehicle and possibly cause personal injury.

Safety Reminders

1. Make sure the GO-4 operator has read the manual and understands it.
2. Do not let children operate vehicle.
3. This vehicle is to carry one person ONLY. No riders!
4. Use a seat belt for optimum safety. - It's the Law!
5. Keep both hands on steering wheel whenever possible.
6. Keep legs and arms in the vehicle when it is in motion.
7. Always shut off engine when vehicle is being refueled.
8. Never smoke when refueling or servicing vehicle.
9. Always dim headlights when approaching people or other vehicles.
10. Never make sudden turns or stops when not necessary.
11. NOTE: The cornering ability of three-wheeled vehicles is not as great as that of similar 4 – wheeled units. A warning buzzer will sound if the vehicle is operating on too much of a slope or if a corner is taken at too high a rate of speed.
12. Always keep within load limits and never overload it.
13. Always run the vehicle in open areas with plenty of fresh air to prevent carbon monoxide poisoning.
14. Always slow down before you turn and when travelling over rough areas.
15. Always signal lane changes and turns.
16. Always wear a helmet where law states such as required.

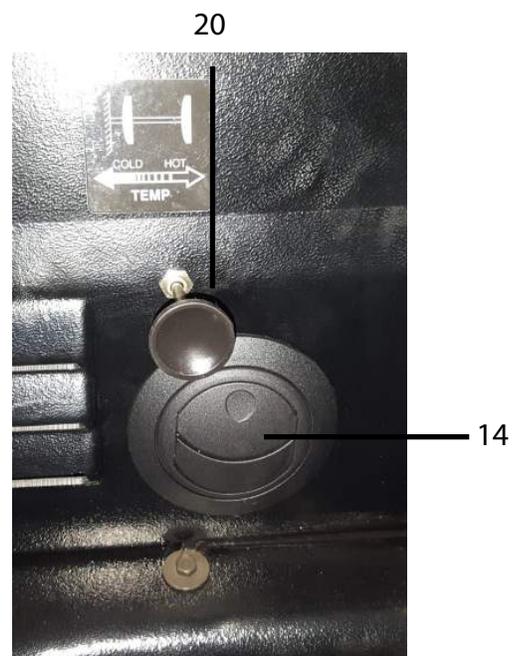
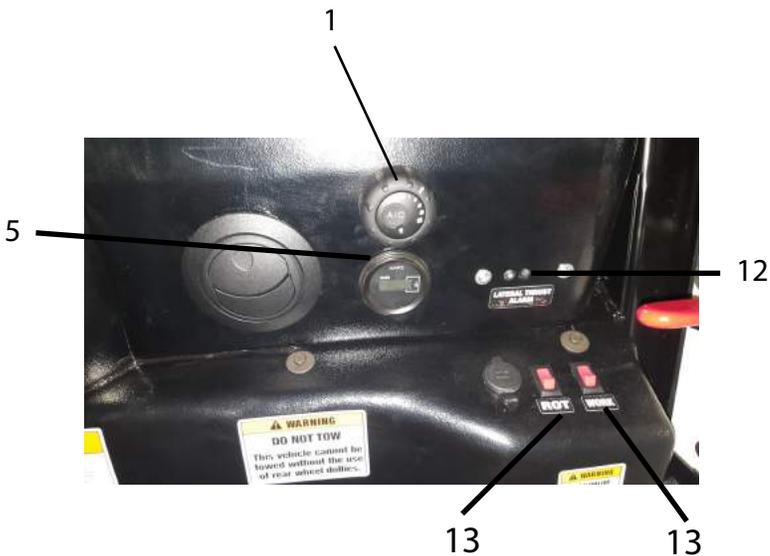
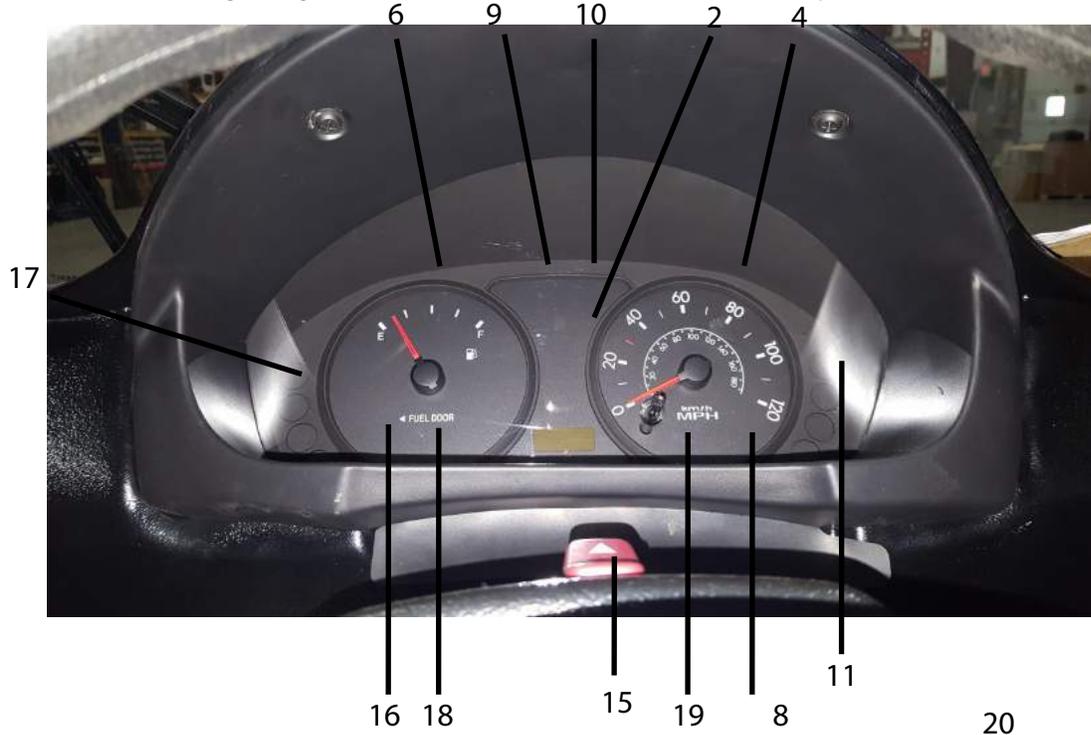
NOTE: The GO-4 is classed as a motorcycle.

Operating Precautions for the Catalytic Converter

1. Use only unleaded fuel in your vehicle.
2. Do not park the vehicle near or over flammable objects such as gas.
3. Do not operate engine at high idle speeds for long periods of time while in "P" or "N"
4. Do not allow your vehicle to run empty of fuel.
5. Do not operate the vehicle when there are signs of engine malfunctions, such as misfire or noticeable loss of power to the engine.
6. Do not coast with engine off.
7. Do not go down steep grades in gear with ignition off.
8. Do not modify or tamper with emission control system. Let a qualified technician do the adjustments.

CONTROLS AND GAUGES

- | | |
|------------------------------------|------------------------------------|
| 1. Fan Speed | 11. Oil Pressure Light |
| 2. Temperature Light Indicator | 12. LTI (Lateral Thrust Indicator) |
| 3. No Longer in Use | 13. Auxiliary Switches (two) |
| 4. Speedometer | 14. Vents |
| 5. Hourmeter | 15. Hazard Switch |
| 6. Fuel Gauge | 16. Check Engine Light |
| 7. No Longer in Use | 17. O/D Light Indicator |
| 8. Park Brake/ Brake Warning Light | 18. Low Fuel Indicator |
| 9. High Beam Indicator Light | 19. Battery Light Indicator |
| 10. Turn Signal Lights (L, R) | 20. Temperature Control |



Controls and Gauges – cont'd

All controls and gauges are located on the dash.

Ignition Switch (4 positions)

- a. Accessory Position: Allows use of various instruments and accessories without the engine running. Option lights, dome light, radio.
- b. Off Position: Prevents all electrical powered accessories and engine from running except hazard warning flasher and allows key to be removed
- c. On Position: This allows all accessories and engine to be run.
The key is automatically returned to this position after starting the GO-4
- d. Start Position: Hold key in start to engage starter, upon engine starting release key.

Important: Do not turn the key to "start" position with engine running.
Severe damage can result to the starter drive and ring gear.

Note: If GO-4 does not start within 15 seconds, turn key to the Off position, then try again in 30 seconds.
Damage may occur to starter if it is run continuously for an extended period of time.



Controls and Gauges – cont'd

Note: The GO-4 will start only when the transmission is in Park or Neutral.

Gear Selector

The gear selector is located to the left hand side of the driver's seat. When shifting from Park or Neutral to any gear, hold foot on brake. Use the thumb button on the side of gear selector to release from "P" or "R". When the transaxle is in Park, the push button will pop out automatically, locking the lever in the Park position. In this position the gear selector cannot be moved unless the button is pushed in.

"P" (Park) position: use only when the vehicle has come to a complete stop.

WARNING: When the above is not followed, extreme damage to the transmission can occur. "P" should not be used as a brake.

"R" (Reverse) position: Use for backing up vehicle from a stop. Note: A back up alarm (if equipped) will sound when the transmission is in "R".

"N" (Neutral) position: For standing (brakes applied).

"D" (Drive) position: For normal driving this transmission will shift automatically through the four forward gear sequence.

"2" position: manually select when power is needed to go up steep hills, a braking assist when going down hills or for better control when starting off on slick surfaces.

"L" position: Manually select when climbing up or down very steep hills or for better control on slick surfaces.

Parking Brake

Pull up to engage. Depress button on end of handle and push lever down to release parking brake. Brake light on dash will come on when parking brake is engaged.



Controls and Gauges – cont'd

Foot Throttle

Push pedal to operate throttle. Idle position is when pedal returns to the top.

Note: The GO-4's engine high idle comes on automatically upon cold start. As the engine reaches normal operating temperature the high idle device will come off.



Brake Pedal

When pedal is depressed, the vehicle's brakes are applied and vehicle will slow down to a stop.

Doors

The doors slide on tracks to ease opening and closing. The window can be opened separately from inside (eg. To provide ventilation) without affecting door operation and safety.

Door: Open door by pulling on red handle and slide door back on its tracks. Close door by pushing on black handle and allowing door to travel forward until click is heard.

Window: Pull back black handle and slide window back to first notch (vent position) or back until it locks in the fully open position.



Speedometer/Odometer

The speedometer indicates the forward speed of the vehicle. This is shown in MPH by large number and km/h (kilometers per hour) by the small numbers. The odometer indicates the total distance (in miles) the vehicle has driven.

Hourmeter

Records the number of hours that the vehicle has run and is important if your vehicle operates at slow speeds and idles a good portion of its daily operation. It is a better indicator when maintenance items should be carried out, (eg. oil and filter changes.)

Fuel Gauge

Records the fuel level in the tank; Tank capacity is 9.0 US gal, 34 liters.

Warning and Indicator Lights

Battery Warning Light: If this light is displayed when the engine is running, you may have a problem with your charging system. This display will also stay on while the key is in RUN until the engine is started.

Brake System Warning Light: Red warning light has two functions:

1. Park brake warning light. This indicates when the parking brake is applied when the engine is started. Release the parking brake fully before moving vehicle. The light should go off when the parking brake is released.
2. Brake fluid level warning light. This warning light is still on even when the parking brake is completely released. It may indicate low brake fluid level in the reservoir.

If the warning light stays on:

1. Make sure parking brake is full released.
2. Carefully stop your vehicle. Put in "P" Park and apply emergency brake.
3. With engine stopped, check fluid level and flow. Check all brake components for leaks.
4. If any leaks are found, if warning light continues to stay on, or the brakes do not operate properly do not drive vehicle.
5. Have your vehicle towed to an authorized dealer for a full brake examination. Let them do the necessary repairs.

WARNING: Driving your vehicle with improperly operating brakes can cause severe damage to your vehicle and possible injury to the operator.

Check bulb operation: the warning light glows when the ignition key is in start position and should go out when the brake is released and engine is started.

Headlight High Beam Indicator Light: The blue indicator light comes on when the headlights are on and in the high beam position.

Turn Signal Indicators: Lights when left or right turn signal is engaged.

Panel Lights: Lights on instrument panel display gauges at night. They operate when the headlights are switched on.

Low Fuel Light: This light indicates the vehicle is running low on fuel.

Controls and Gauges – cont'd

Temperature Warning Lights : These lights indicate the temperature of the engine coolant. A blue temperature light will come on when the vehicle is first started. This indicates that the engine is cold and should be driven slowly. If the engine gets too warm a red temperature light will come on. At this point make sure to shut off the vehicle to prevent damage to the engine.

Oil Pressure Warning Light : The red oil pressure light indicates the low oil pressure in the engine.

Auxiliary Switches

The illuminated rocker switches operate the following options:

- Roof-mounted work light(s).
- Work lights or other customer installed options



Heater Controls

Fan Speed: The four-speed heater control switch is located on the right side of the dash. Turn clockwise to increase fan speed.

Heat/Cold: Temperature is controlled by pulling control for more heat. Push in to reduce heat. This control is located on the left side of the dash.

Defrost/Vent: Direction of air is manipulated by opening or closing of the lowerdash vents. Close the vents for full defrost.

Air Conditioner: Activate the optional air conditioning by pushing the middle of the fan speed control button. The AC light will illuminate when air conditioning is engaged.



Controls and Gauges – cont'd

Steering Column Controls

Light Switch/Turn Signal : The multifunction lever is on the left hand side of the steering wheel.

Turn Signals : Pull lever down until it latches to signal a left turn and push it up for a right turn. The indicator lights on the instrument panel will indicate a left or right turn. When the turn is complete the steering wheel will cancel the turn signal. If the turn signal continues to flash, pull the turn signal switch back to OFF position.

Dimmer Switch: To change your headlamp from low to high beam, push the lever away from you, until it latches and release. The blue high beam indicator on the dash glows when the headlamps are on high beam. To change your headlamp from high to low beam, pull the lever toward you and release. **Flash to Pass:** Pull the lever toward you and hold to momentarily turn on the high beam.

Lights: Rotate the knob on the end of lever to the first position. This activated the clearance, parking, license, and taillights. Turn knob to second position to activate headlights, license, and taillights.

Daytime running lights: Once the vehicle is running the daytime running lights automatically come on. These however should not be used for night driving.



Tilt Adjustment: Tilt steering with a lever on the right side lower steering column. Pull the lever out from the center section.

Wiper Control: Located on the right hand side of the steering column. Move stalk down to select wiper speed. When the wiper is on the INT (intermittent) setting, rotate knob on end of stalk to select desired intermittent setting.

Dome Light: Located on the ceiling in compartment. Push switch on dome light to illuminate it. Push again to shut it off.

Controls and Gauges – cont'd

Seat

Adjust the seat by pulling up on the lever and then push or pull on seat until desired position obtained. Release lever. The seat back can also be adjusted by lifting the lever on the right hand side of the seat close to the back. Do not put pressure on the seat back while attempting to lift lever as this could bind the system.

Seat Belt

The lap/shoulder belt should be used at all times when the vehicle is in motion.

To fasten seat belt:

1. Grasp the buckle end and tongue plate.
2. Slowly pull out the tongue plate section.
3. Insert the tongue plate into the open end of the buckle. A noticeable click will indicate the seat belt is securely locked.

Unfasten seat belt:

1. Push button on buckle end to release.
2. The tongue end will automatically return to resting position along side seat.

Note: To help decrease the possibility or severity of injury in sudden stops and accidents, buckle up at all times when using your vehicle. Position the belt, low on the hips and make sure it always is snug. Use the seat belt at all times when the vehicle is in operation.



OPERATION

WARNING: Do not exceed payload capacity given on vehicle nameplate or permit passengers any place on the vehicle.

- A three-wheeled vehicle is not as stable as a four-wheeled vehicle while cornering, particularly while on a down hill grade. Pay attention to the LTI warning which will sound if maximum lateral "G" force is exceeded.
- Place heavy loads forward of rear axles. Unbalanced or top heavy loads can cause vehicle upset.
- Wear a helmet.
- Do not start your vehicle in a closed garage or other enclosed areas. Exhaust fumes can be toxic. Always open the garage door before you start the engine.

Before you start your vehicle, do the following:

1. Make sure you buckle your safety belt. See Seat Belt in the Controls and Gauges section of the manual for more details.
2. Make sure the gearshift selector is in Park and the parking brake is set before you turn the key.

Starting the Vehicle: Further information on engine starting is provided in this section.

1. Adjust the seat for easy access to switches and controls.
2. Adjust mirrors for a clear rear view both right and left mirrors.
3. Fasten seat belt.
4. Put key in ignition.
5. Turn key to start vehicle.
6. Use accelerator after vehicle has started.
7. Step on brake pedal.
8. Place gear selector into desired gear.
9. Release parking brake.

Note: Vehicle will not start if the transmission is not in "P" or "N".

Stopping and Leaving Vehicle:

1. Stop unit fully with brake pedal.
2. Place gear selector lever in "P".
3. Apply parking brake.
4. Turn ignition switch to OFF position and remove key.

Note: When leaving the vehicle on an uphill or downhill grade, the vehicle should be "curbed" (front wheel positioned and pointed towards the curb so that the downhill momentum of the vehicle, should it roll, will force the tire against the curb).

Operation – cont'd.

Starting the Engine

When starting the fuel-injected engine, avoid pressing down on the accelerator. Use the accelerator only when you have problems getting your vehicle started. See Starting a Cold Engine for details about when to use the accelerator while you start your vehicle.

IMPORTANT: Do not park, idle or operate your vehicle in tall, dry grass or other dry ground areas. The high heat generated by engine and emissions components (eg catalytic converter) could start a ground fire.

1. Turn the key to the ON position. All the warning lights, except the Brake Warning Light, should light up. If any of them do not light up, have the bulb and circuit checked. When the engine starts, the lights should go out.
2. The key must be in the START position, which cranks the engine, to test the Brake Warning Light. If the Brake Warning Light does not light up, have the bulb and circuit checked.
3. When you release the parking brake, the Brake Warning Light should go off.

Starting a Cold Engine

During extremely cold weather, let the engine idle for about one minute after starting. By doing this, you will allow the engine oil to begin to warm and lubricate engine parts before putting load on them.

WARNING: Do not let your vehicle idle too long. If it idles for more than 10 minutes, the high temperatures in the exhaust system can cause damage especially if your vehicle idles at high speeds.

1. Turn the key to START until the engine starts. Do not press the accelerator. Do not hold the key in the START position for more than 15 seconds at a time or you could damage the starter.
2. Release the key as soon as the engine starts. Do not hold the key in START position after the engine starts because you could damage the starter.
3. If the engine does not start on your first try, turn the key to OFF. Wait 10 to 12 seconds so that you do not flood the engine. Then begin again.
4. If the engine does not start after two tries, press the accelerator about $\frac{1}{4}$ of the way to the floor. Then try again.
5. If the engine still does not start, push the accelerator to the floor and hold it while you turn the key. Turn the key to START and hold it for up to 15 seconds. Then if the engine does not start, turn the key to OFF and wait two minutes before you try again.

Operation – cont'd

NOTE: If you consistently start your vehicle in subzero temperatures, park your vehicle in a garage or use the engine block heater (if so equipped). Your dealer can provide information on block heater installation.

Starting a Warm Engine

1. Follow the steps under "Starting"
2. Turn the key to START until the engine starts. Do not use the accelerator until the engine is running. Do not hold the key in the START position for more than four seconds at a time so that you do not flood the engine.
3. If the engine does not start within four seconds, turn the key to the OFF position. Wait 10 or 12 seconds so that you do not flood the engine. Then begin again.
4. If the engine still does not start:
 - a. Press the accelerator all the way to floor. Hold it. Do not pump the pedal.
 - b. Turn the key to START.
 - c. Release the key when the engine starts.
 - d. Release the accelerator gradually as the engine starts.

Engine Cranks but Does Not Start

WARNING: If you detect an abnormally strong smell of gas, do not try to start your vehicle. You could injure yourself or others. Get out of your vehicle and call a towing service or the local fire department.

Exhaust Fumes

Carbon monoxide is colorless and odorless. It is present in exhaust fumes. Take precautions to avoid its dangerous effects.

WARNING: Never idle the engine in closed areas. Never sit in parked or stopped vehicle for more than a short period of time. Exhaust gases, particularly carbon monoxide, may build up. These gases are harmful and could kill you.

If you smell exhaust fumes of any kind inside your vehicle, have your dealer inspect and fix your vehicle immediately. Do not drive the vehicle if you smell exhaust fumes.

Operation – cont'd

Refueling

WARNING : Use only unleaded fuel, damage to the pollution control system and catalytic converter will occur if leaded fuel is used. Do not use fuel system cleaning agents.

Shut off engine and do not smoke while refueling. A fire or explosion may occur.

Filler Cap

Always ensure that the filler cap is in place and tight while operating this vehicle.

To remove cap, turn counterclockwise.

To install cap, turn clockwise until a click(s) is heard.

Fuel Type

Use only unleaded fuel with an octane rating of at least 87. If your vehicle doesn't perform well, switch to another fuel. If this doesn't cure the problem see your GO-4 dealer or agent servicetechnician. If your vehicle is damaged because of incorrect fuel, your warranties may not apply.



NOTE : Higher-octane fuel is allowed. If a lower octane fuel is used it can cause a persistent and heavy pinging, which can cause severe damage to engine.

Your vehicle may experience slight 'engine knock' when driving up steep hills or when you accelerate.

See your GO-4 dealer if your vehicle:

1. Still 'knocks' heavily under all driving conditions.
2. Vehicle 'knocks' lightly while you are driving at cruising speed on level ground.

Running Out of Gas : If your vehicle runs out of gas, try to stop on level ground. Add at least two gallons to start again. On an uneven surface, you may need to add as much as five (5) gallons. You may need to turn the ignition to START for an extended time (not more than 15 seconds) before the fuel system starts to pump gas from the tank to the engine.

Operation – cont'd

Tire Pressure Decal

Shows proper tire inflation rates depending on load for your GO-4. The information for inflation rates is found on the VIN decal located on the front dash.

The tire inflation pressure for front is 32psi and for the rear is 32 psi.

Towing

Tow the vehicle only on dollies (turn slowly and carefully) or on decks of trucks or trailers.

IMPORTANT: Failure to follow towing procedures may cause severe damage to critical vehicle parts.

SERVICE AND MAINTENANCE

Engine Service

Routine service can be done by opening the rear cargo box lid using the latch. Forward of the cargo box is an access cover for checking fluid levels; coolant, engine oil and transaxle.

Improved access to the engine/transaxle is provided by removing the rear cargo box.

1. Open box lid by unlocking rear latch.
2. Unscrew and withdraw 'wing nut stud' that affixes cargo box to frame.
3. You and another person lift the rear of the cargo box slightly, slide backward, and remove.

Re-install cargo box using opposite procedures of disassembly.

Air Cleaner Element

The air cleaner element is a dry type air cleaner. It is chemically treated, pleated paper-air-filtering element which permits air flow through the air induction system, filtering out unwanted dust, dirt, and debris.

Replace air filter every 30,000 miles (1000 hours). Replace every 15,000 miles (500 hours) or whichever comes first under severe operating conditions.

Access to air filter is done by:

1. Remove the cargo box (or slide rearward for access) as above.
2. Release the two latches on air cleaner housing cover.
3. Lift the air cleaner housing cover and air cleaner element.
4. Remove the air cleaner element.
5. To install, reverse the removal procedure.

Engine Oil

Proper amount of oil in the engine is important for safe operation. Check every time you add fuel to your vehicle. For accurate reading make sure the vehicle is on a level surface and the oil is warm.

Check oil

1. Turn off engine after the oil is warm (2-3 minutes of running).
2. Locate the oil dipstick, on the side of engine.
3. Pull out dipstick, wipe clean and replace.
4. Pull out dipstick once again and read it. If the oil level is below the letter "F" or reads at 0.8L, add oil until it reads at the line below "F".

Adding Oil

1. Locate the oil filler cap on top of engine. Remove it.
2. Add desired amount of oil.
3. Let it sit a couple of minutes and recheck oil (as above) to insure proper level.
4. Replace filler cap.

Choosing the Right Viscosity Grade

You must consider the temperature in which you drive your GO-4. If you regularly drive in temperatures that are below 100 F (38 C), use SAE 5W-20/GF4&SM oil. If you drive regularly at temperatures above 100 F (38 C), use SAE 10W30 oil. If you regularly drive in temperatures that are below 20 F (-10 C), use SAE 5W20 oil.

Service and Maintenance – cont'd

Oil and Filter Change Intervals

The engine oil and engine oil filter in the GO-4 should be changed every 6,000 miles (8,000 Km) or every 12 months under the Normal Maintenance Schedule.

However, if the use of the GO-4 includes:

1. Extended periods of idling or low speed driving.
2. Operating in gritty or industrial conditions.
3. Majority of operation is in stop and go city traffic, or short trips (less than 10 minutes).
4. Operation in sub-freezing temperatures.

Then engine oil and filter should be changed every 2,000 miles (4,000 Km) or 6 months whichever occurs first.

***Please note: Any GO-4 used for parking patrol, security, traffic and or law enforcement must follow maintenance under severe usage conditions.**

Oil Change

1. Drain oil by removing the oil filler cap and drain plug while the engine is warm.
2. Replace the drain plug tightly after the oil has been thoroughly drained.
3. Refill the engine with new oil to the "F" level marked on the dipstick.
4. Refit the oil filler cap securely.

Oil Filter

1. Remove the engine oil filter with a suitable wrench.
2. Use a clean rag to wipe of the mounting surface on the engine.
3. Apply a small amount of new engine oil on to the seal of the new oil filter.
4. Install the oil filter and hand tighten. Do not use a wrench.
5. Start the engine and inspect around the oil filter seal for leaks. Check the oil level and fill to the "F" mark if necessary.



Oil Dipstick

Oil Filler cap



Oil Filter

Oil Capacity

Total: 3.2L (3.38USqt, 2.81 Impqt)
Oil pan: 2.7L (2.85USqt, 2.37 Impqt)
Drain and refill including oil filter:
2.9L (3.06USqt, 2.55 Impqt)

Cooling System

The vehicle's cooling system protects your engine from overheating in hot temperatures and freezing in below freezing temperatures. Check the level at least once a month in the coolant recovery reservoir.

If the engine is cold, the coolant level in the coolant reservoir should be between the low and full mark. If the coolant level is below the low mark, add coolant to the FULL mark.

Cooling System Capacity: 5.28 US qt (5 liters)

CAUTION: Your vehicle is equipped with an automatic cooling fan. It may come on at any time without warning, even if ignition is OFF and key is out. If working around the fan, disconnect the negative battery terminal to avoid injury.

Adding Coolant

DANGER: DO NOT REMOVE RADIATOR CAP WHEN THE ENGINE IS HOT, THE COOLANT IS EXTREMELY HOT.

Before removing the radiator cap:

1. Turn the engine off and let it cool. Even when the engine is cool be careful when you remove the radiator cap.
2. When the engine is cool, wrap a cloth around the cap and turn it slowly to the first stop.
3. Step back while the pressure releases. A hissing sound may be heard.
4. When you are sure that all the pressure has been released, use the cloth to press down on cap, turn it and remove.
5. Stand back from the radiator opening as hot steam may blow out or hot water may splash out.

NOTE: Add engine coolant only to the coolant recovery reservoir NOT to the radiator. Add to the proper level with not more than 50/50 mixture of extended life antifreeze and water. This will provide coolant protection to -40 F (-40 C).

NOTE: A mixture that has less than 40% engine antifreeze can cause the engine to rust and overheat. A mixture that has more than 50% engine antifreeze can cause an engine to overheat in 80 F over weather.

IMPORTANT: Use only extended life antifreeze.

NOTE: See your dealer or agent to check your cooling systems for leaks if:

1. You add coolant more than once a month.
2. You have to add more than a pint at a time.

Changing the automatic transaxle fluid

1. Raise and suitably support the vehicle.
2. Remove the drain plug located at the bottom of the transaxle.
3. Once the fluid has drained completely from the differential sump, install a new washer on the plug, re-install and tighten to 21-24 ft.lb.
4. Remove the oil pan installation bolts. Then, remove the pan including the corner stiffener, tapping lightly with a plastic hammer. Use caution as the pan retains approx. 3L of fluid.
 - . Do not separate the stiffener from the pan with a screwdriver.
 - . Remove any residual sealant from the pan and case surfaces.
 - . Ensure that all sealant has been removed.
5. Remove the magnet then flush and clean both the magnet and the internal surface of the oil pan.
6. Remove the eight installation bolts from the oil strainer cover and remove from the lower control valve body. Flush, clean and dry the strainer screen, replacing it if deemed necessary.
7. Replace the strainer screen and cover on the lower control valve body. Torque bolts to 70 in.lb.
8. Install the magnet in the oil pan.
9. Apply sealant to the oil pan.
(Threebond 1216B, Permatex Ultra Grey RTV or equivalent).
 - . The coat of sealant should be approximately 3mm (0.118in.) wide and 1.5mm (0.059) thick.
 - . The sealant should be applied thoroughly and evenly.
10. While re-installing the oil pan and corner stiffener, tighten the oil pan installation bolts to the specified torque.

Tightening torque: 9.6 ft.lb./115 in. lb.

Service and Maintenance – cont'd

11. Lower the vehicle.
12. Remove the automatic transaxle dipstick and using a funnel add the necessary amount of automatic transaxle fluid.
Use: TRANSAXLE FLUID SK ATF SP-IV, MICHANG ATF SP-IV, NOCA ATF SP-IV, Kia Genuine ATF SP-IV
13. Check the fluid level. If necessary, add a small amount of fluid and check the level again.
Continue this process until the level reads within "HOT" range.
Do not overfill the automatic transaxlereservoir. Doing so can cause a seal 'blow out', loss of fluid and damage to the transaxle.
14. Replace the dipstick and properly dispose of the used transaxle fluid.

Brake Fluid

Under normal circumstances, your vehicle should not use brake fluid. However, expect the level of the brake fluid to slowly fall as you put more mileage on your vehicle and as brake pads wear. Check the brake fluid at least once a year. This is done by looking at the fluid level in the plastic see-through reservoir on the master cylinder. This level should be at or near the maximum line.

IMPORTANT : If you use brake fluid that is not DOT-3 or DOT-4, you will cause permanent damage to your brakes. Never reuse brake fluid that has been drained from the system or that has been allowed to stand in an open container for an extended period of time.

WARNING : Do not let the reservoir for the master cylinder run dry. This may cause the brakes to fail.

Adding Fluid

If the fluid is low:

1. Carefully clean and remove the cap from the reservoir.
2. Fill the reservoir to the maximum line with a **DOT-3 or DOT-4** brake fluid.

IMPORTANT : Do not fill the reservoir above the maximum line.

Transaxle

Make sure the transmission fluid level is just below the “F” mark. Do not overfill.

Checking Automatic Transaxle Fluid Level

1. Park the vehicle on level ground and set the parking brake firmly.
2. Start and run engine until it is at normal operating temperature.
3. Press brake pedal firmly and move the gear selector through all the gear positions.
4. Place the gear selection lever in PARK position.
5. Measure fluid using the oil indicator markings. Clean dipstick and reinsert fully.
6. With the engine still idling, pull the dipstick out again. If the fluid is low, add enough fluid so that the oil level indicator is reading between “F” and “L” marks. Do not overfill.



**Transmission
Dip Stick**

The nature of the GO-4's usual work/duty cycle (much starting and stopping, slow speed, first and second gear operation) constitutes relatively severe operating environment. Replace transmission fluid every 15,000 miles (500 hours).

Automatic Transmission Fluid : TRANSAXLE FLUID SK ATF SP-IV, MICHANG ATF SP-IV, ATF SP-IV, NOCA ATF SP-IV, Kia Genuine ATF Sp-IV

Capacity: 5.5 US qts (5.2L)

Service and Maintenance – cont'd

Fuel Filter

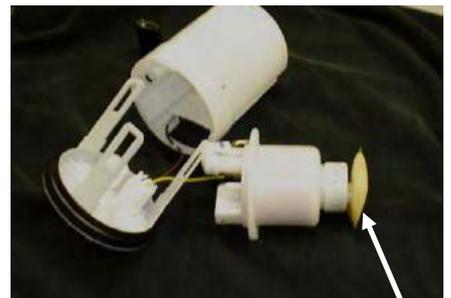
The fuel filter is located in the fuel tank. Service the fuel filter every 30,000 miles or 1,000 hours whichever comes first.

Removal

WARNING: DO NOT SMOKE OR CARRY LIT TOBACCO OR AN OPEN FLAME OF ANY TYPE WHEN WORKING ON OR NEAR ANY FUEL RELATED COMPONENT. HIGHLY FLAMMABLE MIXTURES ARE ALWAYS PRESENT AND MAY BE IGNITED, RESULTING IN PERSONAL INJURY.

1. Remove the seat from the cab.
2. Remove the access panel from the seat box.
3. Disconnect the fuel and vac hoses from the top of the fuel pump.
4. Remove the ring that holds the fuel pump in place and remove the fuel pump from the tank.
5. Remove the top of the fuel pump by sliding the three tabs up.
6. Remove the inside of the fuel pump by pressing in the two tabs on either side of the pump.
7. Remove and replace the fuel filter on the bottom of the fuel pump (as shown in picture)
8. Re-assemble the fuel pump and replace back into the tank.
9. Tighten the cap of the fuel pump so that it is snug.
10. Reconnect the fuel and vac hoses to the top of the fuel pump.
11. Replace the access panel and seat to the seat box.

Fuel Pump



Fuel Filter

Drive Belt Removal/Installation

A/C Compressor Belt

1. Loosen the A/C compressor adjustment bracket/mount bolt and adjust compressor so as to provide enough slack to remove the A/C compressor drive belt.
2. Remove the A/C compressor drive belt from the A/C clutch pulley, and the crankshaft pulley.
3. Remove the A/C compressor drive belt from the vehicle.

Install:

1. Route the A/C compressor drive belt around the crankshaft and clutch pulleys.
2. Note: Ensure that the A/C compressor drive belt is seated properly on the pulleys before the tension is adjusted.
3. Adjust the A/C compressor belt to the proper tension.

Alternator Drive Belt (A/C equipped models)

1. On vehicles equipped with air conditioning, remove the A/C compressor drive belt.
2. Loosen the upper and lower alternator mount bolts.
3. Loosen the alternator bracket adjustment bolt until there is enough slack to remove the alternator drive belt.
4. Remove the alternator drive belt from the water pump, crankshaft and alternator pulleys.
5. Remove alternator drive belt from the vehicle.

Install the alternator drive belt as follows:

1. Route the alternator drive belt around the three pulleys.
2. Ensure the alternator drive belt is seated properly on all the pulleys before the tension is adjusted.
3. Adjust the alternator drive belt to the proper tension.
4. Tighten the alternator bolt to 14-19 lb/ft (19-25 N.m.)
5. Tighten the alternator lower bolt to 27-38 lb/ft (37-52 N.m.)
6. On vehicles equipped with air conditioning, re-install the A/C compressor drive belt. Refer to the procedure in this section.

Jump Starting

Before jump starting the vehicle, be aware of the following:

WARNING: Hydrogen and Oxygen gases are produced during normal battery operation. This gas mixture can explode if flames, sparks, or burning substances (cigarettes, etc.) are brought near the battery. When charging or using batteries in an enclosed area (including the vehicle engine compartment) always provide ventilation and shield your eyes. Keep children away from vehicle batteries. Batteries contain sulfuric acid. Avoid contact with skin, eyes, or clothing. In case of acid contact with skin, eyes or clothing, flush immediately with clean water for a minimum of 15 minutes. If acid is accidentally swallowed, consult a physician immediately. Give the person large quantities of milk or water, followed by milk of magnesia, a beaten egg, or vegetable oil.

WARNING: To avoid any possibility of injury, extreme care should be exercised when connecting jumper cables to a discharged battery.

When the starter motor will not crank, or does so very slowly, connect a 12-volt booster battery, following these instructions and precautions. Make the connections in the numerical order shown. Disconnect the connections in the reverse order shown.

CAUTION: Do not allow the vehicles to touch.

CAUTION: Do not disconnect the battery of the vehicle to be started. Doing so could damage the operational vehicle's electrical system while jump starting.

Note: Make connections in numerical order (disconnect in reverse order eg 4, 3, 2, 1).

1. Position the vehicles so the jumper cables will easily reach both batteries and the engine block of the vehicle to be started. Do not allow the vehicles to touch.
2. Ensure all unnecessary electrical accessories on the disabled vehicle are turned off while jump starting.
3. Turn on the blower motor of the operational vehicle to remove voltage surges.
4. Shield your eyes using safety goggles or similar eye protection.
5. Ensure jumper cables are not in the way of moving parts as you make the jumper cable connections
 - a. Connect one end of the first jumper cable to the positive (+) terminal of the discharged battery.
 - b. Connect the other end of the first cable to the positive (+) terminal of the booster battery.
 - c. Connect one end of the second jumper cable to the negative (-) terminal of the booster battery.
 - d. **WARNING:** Making the final cable connection could cause an electrical arc which, if made at or near the battery, could cause an explosion.
 - e. Connect the other end of the second cable to the engine block of the disabled vehicle. Do not connect the cable to the negative terminal.
6. Start the engine of the vehicle with the good battery and run the engine at a moderate speed.
7. Start the engine of the vehicle with the discharged battery.
8. Turn off all electrical components and reduce the engine speed to idle on both of the vehicles to prevent possible damage to the vehicle electrical system.
9. Remove the jumper cables in the exact reverse order from which they were connected. With the jumper cables removed, the vehicle accessories can be used.

If the starter motor does not crank the engine sufficiently with the booster battery attached, further diagnosis of the engine and starting system is required.

Tires

When replacing tires, it is recommended to use tires of the same size, speed rating, load range and radial construction as originally installed on the vehicle. Use of any other tire specification may seriously effect ride, handling, speedometer/odometer calibration, vehicle ground clearance, and tire clearance to the body and chassis. Refer to sticker for tire size and proper inflation.

Tire Inflation

Maintain tire inflation of 32 psi – front; and 32 psi – rear. Check tire pressure each time you fill up with fuel.

Tire Rotation

To equalize tire wear, tires may be rotated. If there is unusual wear on the tire tread do not rotate until the cause of unusual or uneven tire wear is determined and corrected.

Front and rear tires perform different jobs and can wear differently depending on the type of the vehicle and driving habits. To equalize wear and extend tire life, rotate tires every 10,000 miles or 320 hours.

Changing a Tire

WARNING:

1. Use the correct front and rear jacking points on the vehicle. Never use the bumpers or any other part of vehicle for jack support.
2. Do not exceed the jack's maximum permissible load, which is 1102 lbs (500 kg). The jack provided is for emergency wheel and tire change only.
3. Never go beneath the vehicle while using the jack.
4. Do not stand or run the engine while the vehicle is jacked up.
5. Never attempt vehicle repairs in the traffic lanes of a public road or highway. Always move the vehicle completely off the road and to the shoulder before trying to change a tire. If you cannot find a firm, level place off of the road, call a service truck.
6. Follow jacking instructions to reduce the possibility of personal injury.
7. When one rear wheel is lifted off the ground the transaxle in PARK position will not prevent the vehicle from moving and possibly slipping off the jack. To prevent inadvertent vehicle movement while changing a tire, always set the parking brake fully. Block the other two wheels at front and rear.

Front Tire

1. Park on a level surface.
2. Block rear wheels and place transmission in PARK.
3. Place a jack as near as possible to the center of the frame cross member directly behind the front wheel.
4. Before jacking the vehicle, loosen the bolts on the front wheel and the bolts which hold the axle caps.
5. Jack the front off the ground.
6. Take the bolts out of the caliper.
7. Remove the axle caps.
8. Remove the wheel bolts.
9. Reassemble in reverse order.
10. Make sure all bolts are properly tightened.

TORQUE SPECIFICATIONS:

Axle Cap Bolts: 55 lbs/ft. Final Torque.

In Three Steps:

1st - 25 lbs/ft.

2nd - 45 lbs/ft.

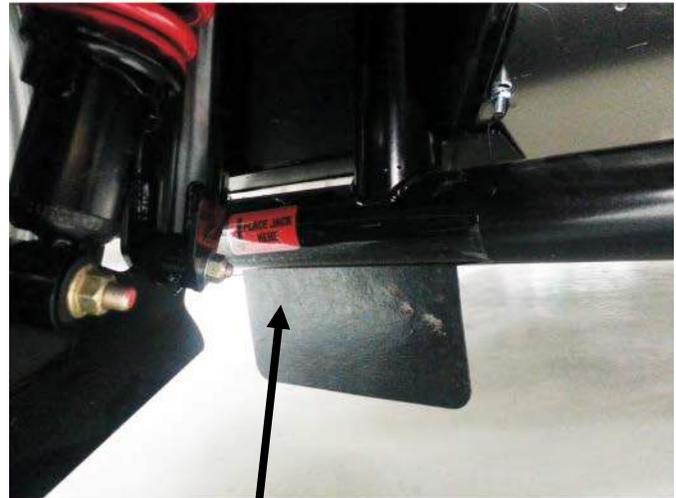
Final - 55 lbs/ft.

Wheel Bolts: **70-80 lbs/ft.**

It is imperative to torque each side evenly beginning at 25 lbs/ft

Rear Tire

1. Park on a level surface and set the parking brake firmly.
2. Position the gear selector in PARK position.
3. Place the jack close to rear wheel where indicated on the frame.
4. Raise rear wheel.
5. Remove the four wheel bolts.
6. Reassemble in the reverse order of the above.
7. Tighten all wheel bolts. Torque them to **70-80 lbs/ft.**



Place Jack In The Center Of Front Cross Tube Or On Either Side Of The Rear Subframe

Fuses

The fuse blocks (panels) are located under the right hand corner of the dash cover on the left front of the engine compartment.

WARNING: Replace fuses with ones of the same amperage rating.

1. To gain access to fuses, remove the two dash cover retaining screws and gently lift the right hand corner of the cover, exposing the fuse blocks.
2. Remove fuse by grasping each side of it and pulling.
3. Replace fuse by pushing gently in the center of fuse until it seats in place.

Vehicle Appearance

NOTE: When using any polish or chemical cleaner always read and follow the directions, warnings and cautions on the label.

Washing and Polishing

1. To remove tree sap, insects and road tar; wash with a mild soap solution. Rinse immediately with clean clear water. The longer the time the above objects are on the vehicle, the tougher they are to remove.
2. Wash your vehicle often to prevent dirt, salt, chemicals and other material from damaging the paint and other finishes. This is particularly important in areas where chemicals and salts are used on the roads.
3. Slow down the corrosion process by applying a semi-annual coat of wax or polish.
4. Do not direct high pressure water or solution from a close distance at the front wheel bearings or at the rear wheel bearings. High pressure water at close distances can bypass the seal and contaminate the lubricant causing premature wheel bearing failure.

Important:

1. Wiping off dust or dirt with a dry cloth will scratch the finish and glass.
2. Don't wash the vehicle in direct sun or when the surface is hot.
3. When cleaning plastic surfaces use plenty of water and soft cloths to prevent scratching.
4. Prevent caustic solutions such as perfume, cosmetic oil, etc., from coming in contact with plastic covers on gauges that may cause damage or discoloration. If the above come in contact, wipe off immediately.
5. Test brakes to make sure they were not affected by the water.
6. The vehicle should be washed and dried before applying wax or polish. Don't use a polish with a large amount of abrasives as these will damage surfaces.

Service and Maintenance – cont'd

MAINTENANCE SCHEDULES

Maintenance schedules are based on how the vehicle is driven.

The Regularly Scheduled Maintenance Intervals should be followed if, generally, the vehicle is driven on a daily basis for more than 10 miles and NONE OF THE CONDITIONS IN THE SEVERE MAINTENANCE SCHEDULE APPLY TO THE DRIVING HABITS.

The Severe Maintenance Schedule should be followed if the vehicle owner's driving habits mainly include one or more of the following:

1. Short trips of less than 10 miles (16km).
2. Operating when outside temperatures remain below freezing.
3. Operating during hot weather in stop-and-go "rush hour" traffic.
4. Extensive idling, such as police, traffic enforcement or door-to-door service.
5. Operating in extremely humid climates.
6. Driving in severe dust conditions.
7. Driving in areas where road salt or other corrosives are used.
8. Driving on rough and/or muddy roads.
9. Operating in hilly areas or under high loads.

***Please note: Any GO-4 used for parking patrol, security, traffic control and or law enforcement must follow maintenance under Severe usage conditions**

Service and Maintenance – cont'd

Owner Maintenance Checks

The following list of vehicle checks and inspections should be performed at the intervals indicated.

Whenever You Stop For Fuel

1. Check the engine oil level.
2. Look for under-inflated tires.

At Least Monthly

1. Check tire pressure. Check the tires when cold, not after a long drive.
2. Check the coolant in the radiator coolant recovery reservoir.
3. Check the operation of all exterior lamps including the brake lamps, turn signals, and hazard warning flashers.

At Least Twice a Year

1. Check windshield wiper operation.
2. Check and replace worn windshield wiper blades.
3. Check for worn tires and loose wheel hub bolts.
4. Check pressure in spare tire (option).
5. Check headlamp alignment.
6. Check the muffler, exhaust pipe, catalytic converter, and clamps for damage.
7. Check the lap shoulder belt for wear and function.
8. Check the radiator, heater, and air conditioning hoses for leaks or damage.
9. Check the rear driveshaft joint boots for cuts or leakage.

At Least Once a Year

1. Lubricate all hinges, checks, latches, rollers, and all outside key locks.
2. Lubricate the door rubber weatherstrips.
3. Check air conditioning system (if so equipped) before the warm weather season.
4. Clean door guide rails.
5. Check brake fluid level.
6. Clean battery connections.
7. Lubricate the transaxle controls and linkage.
8. Inspect the refrigerant amount.
9. Inspect the A/C compressor operation.
10. Inspect proper lubrication of front suspension. Use only approved Westward lubricant.

Regular Maintenance Schedule

The Regular Maintenance Schedule should be followed if the vehicle is generally driven on a daily basis for more than 10 miles (16 km) and NONE OF THE CONDITIONS SHOWN IN THE SEVERE MAINTENANCE SCHEDULE APPLY TO DRIVING HABITS.

Items marked with a (*) are for emission control service.

Every 5,000 miles (625 hours)

- Change engine oil and replace oil filter. *
- Inspect front and rear disc brake pads.

Every 10,000 miles (1250 hours)

- Rotate tires and adjust air pressure.
- Inspect air cleaner element. *

Every 15,000 miles (500 hours)

- Change automatic transmission fluid.

Every 30,000 miles (3750 hours)

- Replace spark plugs *
- Replace fuel filter. *
- Replace air cleaner element. *
- Change engine coolant at above interval or every 60 months, whichever comes first.
- Change brake fluid.
- Inspect valve clearance. *
- Inspect cooling system, hoses and clamps.
- Inspect alternator and A/C compressor belts. *
- Inspect fuel lines and hoses. *
- Inspect rear wheel drive shafts, CV joints and boots.
- Inspect front and rear disc brake pads and disc rotors as well as lines and hoses.
- Inspect front fork assembly.
- Inspect steering operation and linkage.
- Inspect bolts and nuts on chassis and body.

Every 60,000 miles (7500 hours)

- Inspect rear wheel bearings.
- Inspect front wheel bearings.

Severe Maintenance Schedule

The Severe Maintenance Schedule should be followed if the vehicle owner's driving habits include one or more of the following:

1. Short trips of less than 10 miles (16 km).
2. Operating when outside temperatures remain below freezing.
3. Operating during hot weather in stop-and-go "rush hour" traffic.
4. Extensive idling, such as police or door-to-door service.
5. Operating in extremely humid climates.
6. Driving in severe dust conditions.
7. Driving in areas where road salt or other corrosives are used.
8. Driving on rough and/or muddy roads.
9. Operating in hilly areas or under high loads.

Items marked with a (*) are for emission control service.

Every 2,500 miles (312 hours)

- Change engine oil and replace oil filter.*
- Inspect front and rear disc brake pads.

Every 5,000 miles (625 hours)

- Rotate tires and adjust air pressure.
- Inspect air cleaner element. *

Every 15,000 miles (1875 hours)

- Replace air cleaner element. *
- Change automatic transmission fluid.
- Change brake fluid.
- Inspect valve clearance. *
- Inspect cooling system, hoses and clamps.
- Inspect alternator and A/C compressor belts. *
- Inspect fuel lines and hoses. *
- Inspect rear wheel drive shafts, CV joints and boots.
- Inspect front and rear disc brake pads and disc rotors as well as lines and hoses.
- Inspect front assembly suspension. Lubricate pivot bushings.
- Inspect steering operation and linkage.
- Inspect bolts and nuts on chassis and body.

Every 30,000 miles (3750 hours)

- Replace spark plugs *
- Replace fuel filter. *
- Change engine coolant at above interval, or every 48 months, whichever comes first.
- Inspect front wheel bearings.
- Inspect rear wheel bearings.

SPECIFICATIONS

Engine Compression Ratio: 10.5 :1

Horse Power: 69

No. of Cylinder and Arrangement: 3-cylinder inline.

Firing Order: 1-2-3

Bore and Stroke: 2.795 x 3.307 in. (71 x 84 mm)

Idle Speed: 900 +/- 100 RPM with transmission in PARK.

Ignition Timing: At idle 5 degrees (+/- 2 degrees) BDTTC. Adjust alignment mark at crankshaft pulley to timing indicator at idle.

Oil Capacity: 3.06 US qts (2.9 liters) w/filter - Drain + Refill
3.38 US qts (3.2 liters) w/o filter - Total capacity

Engine Oil Type: SAE 5W20 - API Service SJ, SI, ILSAC - GF-4+SM or above

Spark Plug Type: NGK BKR5ES-11 or Champion RC9YC4, RC10YC4

Spark Plug Gap: .039-.043 in (1.0-1.1mm)

Cooling System

Liquid cooled

Capacity: 5.39 US qts (5.1L)

Pressure – radiator: 17.78 psi

Coolant Type: Extended Life Antifreeze

Coolant Mixture: 50/50 provides –40 F (-40 C) is recommended.

Transaxle: 4 speeds forward, one reverse. It combines an automatic transmission and differential into one component.

Fluid Capacity: 5.5 US qts (5.2 liters)

Transaxle Fluid Type: TRANSAXLE FLUID SK ATF SP-IV, MICHANG ATF SP-IV, NOCA ATF SP-IV, Kia Genuine ATF SP-IV

Brakes: Disc (one at front and two at rear).

Capacity: 0.8L, 0.84 US Qt.

Brake Fluid Type: DOT -3 or DOT-4

Fuel Tank Capacity: 9.0 US gal. (34 liters)

WARRANTY SERVICE

To make a claim under warranty, contact the authorized GO-4 dealer or agent within 30 days upon realizing a problem with your vehicle. We recommend having all warranty work done by the Go-4 dealer or agent that sold you the vehicle. Or, if the selling dealer is not available, any authorized GO-4 agent or dealer. Remember your GO-4 vehicle must be delivered to an authorized GO-4 dealer or agent within the warranty period, and all warranty work must be done by an authorized GO-4 dealer or agent. A proof of purchase will be needed by the dealer or agent to follow up any warranty claim.

Items Not Covered By Warranty

1. Vehicles subject to misuse, neglect, negligence or accident
2. Normal service work beyond the repair and replacement of defective parts.
3. Vehicles that have been modified or altered so as to adversely affect their operation, performance, or durability or to change their intended use.
4. Normal service requirements arising during the warranty period such as fuel injection or ignition adjustment and wear of brake shoes.
5. Any expense when your vehicle has warranty done on it such as towing charges to and from your GO-4 dealer or agent.
6. Normal maintenance, adjusting or replacing of items such as filters, spark plugs and fuses.
7. Vehicles that were not maintained or operated as outlined in the GO-4 operator's manual.
8. Periodic checking of fluid levels or adding of lubricants.
9. Check-up service, tune-up or diagnosis.

refer to warranty statement for greater detail

Owners' Obligation and Responsibilities

Normal maintenance and replacement of service items are the responsibility of the owner and as such are not considered defects in material and workmanship within the terms of the warranty.

The need for, and frequency of, service maintenance will depend on the type of use and manner of operation of the vehicle.

See your GO-4 dealer or agent for proper care and maintenance of your vehicle. Proper care and maintenance will keep your operating costs to a minimum.

To assure a warranty claim, it is the owner's responsibility to:

- maintain all components in proper adjustment and to service the vehicle as per the GO-4 operator's manual
- ensure proper lubrication of all components
- ensure the use of the correct fuel
- maintain the correct air pressure in the tires.
- maintain proper documentation

FOR OWNERS/OPERATORS ONLY

To comply with National Traffic and Motor Vehicle Safety Act of 1966, Williams Steiger Equipment Safety and Health Act of 1970 and the Consumer Product Safety Act changes in address and/or ownership are to be reported to the manufacturer.

If the name of the owner of the vehicle or the owner's address changes, see your GO-4 dealer who had vehicle registration change forms. These should be filled out and:

1. Returned to the manufacturer.
2. Keep one copy for dealer records.

To find your local GO-4 dealer, inquire to:

Westward Industries Ltd.
613 Marion Street
Winnipeg, Manitoba
Canada, R2J 0K2

Telephone: 1-204-594-4100
Fax: 1-204-231-2607

U.S. Distributors

Personal Information

Name _____

Address _____

Telephone _____

Fax _____

Local GO-4 Dealer

Name _____

Address _____

Service Manager _____

Telephone _____

Fax _____

GO-4 Information

VIN # _____

Engine # _____

Reporting Safety Defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Westward Industries.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in any individual problems between you, your dealer, or Westward Industries.

To contact NHTSA you may either call the Auto Safety Hotline toll-free 1-800-424-9393 (366-0123 in Washington, DC area) or write to:

NHTSA
U.S. DEPARTMENT of TRANSPORTATION
400 7th Street SW, (NSA-11)
Washington, DC 20590

You can also obtain other information about motor vehicle safety from the Hotline.