

ICON

GAS VEHICLES



ICON GAS MANUAL

REV. 7/29/2024

WELCOME

Thank you for purchasing this vehicle. Before you drive the vehicle, read this Owner's Manual. This guide contains maintenance and operation information. The illustrations may show items that are optional for your vehicle.

You can perform most of the service procedures in this guide with common, automotive hand tools. If necessary, contact your service representative for information about how to service the vehicle as shown in the Periodic Service Schedule.

Repair or replacement parts are available from your ICON dealer or ICON Service Parts Department.

When you contact ICON about service or parts for your vehicle, the information below is needed.

Vehicle Model: _____

PIN, VIN or Serial Number: _____



ICON GAS

Owner's Manual

ICON GAS-POWERED VEHICLES

G40, G40L, G60, G60L



**STARTING MODEL
YEAR 2024**

CALIFORNIA Proposition 65 Warning

WARNING: Motor vehicles may contain fuels, oils and fluids, battery posts, terminals, and related accessories which contain lead, lead compounds and other chemicals identified by the State of California to potentially cause cancer, birth defects and other reproductive harm. These chemicals are found in vehicles, vehicle parts and accessories, and in both new and replacement parts. During maintenance, these vehicles generate used oil, waste fluids, grease, fumes and particulates, all identified by the State of California to potentially cause cancer, birth defects, and other reproductive harm.

Never modify the vehicle in any way that will alter the weight distribution of the vehicle, decrease its stability or increase the speed beyond the factory specifications. Such modifications can cause serious personal injury or death. ICON prohibits and disclaims responsibility for any such modifications or any other alteration which would adversely affect the safety of the vehicle. ICON reserves the right to incorporate engineering and design changes to products in this manual, without obligation to include these changes on units sold previously.

The information contained in this manual may be revised periodically by ICON, and therefore is subject to change without notice. ICON DISCLAIMS LIABILITY FOR ERRORS IN THIS MANUAL, and SPECIFICALLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES resulting from the use of the information and materials in this Manual. These are the original instructions as defined by 2006/42/EC.

TO CONTACT US:

ICON Electric and Gas Vehicles
4406 Madison Industrial Lane, Suite 200
Tampa, FL 33619
Call: (866) 426-6380
Email: Sales@ICONEV.com

NOTES

This vehicle was designed and manufactured in the United States of America (USA). The standards and specifications listed in the following text originate in the USA unless otherwise indicated.

Use Original Equipment Manufacturer (OEM) approved parts to keep the warranty effective. Overfilling the battery can void the warranty. Tampering with or adjusting the governor to permit the vehicle to operate at above factory specifications will void the vehicle warranty.

When servicing engines, all adjustments and replacement components must be per original vehicle specifications in order to maintain the United States of America Federal and State emission certification applicable at the time of manufacture.

BATTERY PROLONGED STORAGE

Batteries discharge over time. The rate of discharge changes according to the ambient temperature, the age and condition of the batteries. Completely charged batteries will not freeze in winter temperatures unless the temperature is less than -75°F (- 60°C).



BATTERY DISPOSAL



Lead-acid batteries are recyclable. Return discarded batteries to distributor, manufacturer or lead smelter for recycling. For neutralized spills, put residue in acid-resistant containers with absorbent material such as sand. Dispose of in accordance with local, state and federal regulations for acid and lead compounds. Contact local or state environmental officials for the disposal information.

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SAFETY

Read all of **SAFETY** and this section before attempting any procedure. Pay particular attention to **Notices, Cautions, Warnings and Dangers**.

GENERAL

For any questions about material in this manual, contact an authorized representative.

Read and understand all labels on the vehicle. Always replace any damaged or missing labels.

Steep hills allow the vehicle to move at faster speeds than normal speeds on a flat surface. To prevent the loss of vehicle control and possible injury, speeds must be controlled to the maximum level ground speed indicated in the **GENERAL SPECIFICATIONS** section. Apply the brake to control the speed.

If you operate the vehicle above the maximum specified speed, you can damage the drivetrain components. The damage caused by speeds more than the maximum specified can cause a loss of vehicle control, is abusive, and will not be covered under the warranty.

Use caution when you tow the vehicle. Towing the vehicle above the recommended speed can cause personal injury or damage to the vehicle and other property.

If the vehicle is used in a commercial environment, signs must be in position to inform of possible conditions that can be dangerous. Examples are shown below.



NOTICES, CAUTIONS, WARNINGS AND DANGERS

Read the **NOTICES, CAUTIONS, WARNINGS** and **DANGERS**. The person who services a vehicle needs the mechanical skill and experience to see possible hazardous conditions. Incorrect service or repairs can cause damage to the vehicle or make the vehicle dangerous to operate.

NOTICE

A **NOTICE** indicates and describes information not related to personal injury.



CAUTION

A **CAUTION** indicates a dangerous condition that can cause injury that is not life threatening.



WARNING

A **WARNING** indicates a dangerous condition that can cause death or serious injury.



DANGER

A **DANGER** indicates a dangerous condition that will cause death or serious injury.

SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

WARNING

Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.

NOTICE

The exhaust emissions of this vehicle's engine complies with regulations set forth by the Environmental Protection Agency (EPA) of the United States of America (USA) at time of manufacture. Significant fines could result from modifications or tampering with the engine, fuel, ignition or air intake systems.

WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

NOTICE

This manual contains recommended maintenance procedures from the manufacturer. Follow these procedures and fault isolation information to get the best service from the product. To decrease the risk of personal injury or property damage, obey all the information in this manual.

CAUTION

Certain replacement parts can be used independently and/or in combination with other accessories to modify an ICON-manufactured vehicle to permit the vehicle to operate at or in excess of 20 mph. When an ICON-manufactured vehicle is modified in any way by the Distributor, Dealer or customer to operate at or in excess of 20mph, UNDER FEDERAL LAW the modified product will be a Low Speed Vehicle (LSV) subject to the regulations and requirements of Federal Motor Vehicle Safety Standard 571.500. In these instances, pursuant to Federal law the Distributor or Dealer **MUST** equip the product with headlights, rear lights, turn signals, seat belts, top, horn and all other modifications for LSVs mandated in FMVSS 571.500, and affix a Vehicle Identification Number to the product in accordance with the requirements of FMVSS 571.565. Pursuant to FMVSS 571.500, and in accordance with the State laws applicable in the places of sale and use of the product, the Distributor, Dealer or customer modifying the vehicle also will be the Final Vehicle Manufacturer for the LSV, and required to title or register the vehicle as mandated by State law.

ICON will NOT approve Distributor, Dealer or customer changes that change an ICON product into a Low Speed Vehicle (LSV).

Anyone who operates this vehicle must be A LICENSED DRIVER AND OPERATE THE VEHICLE ACCORDING TO APPLICABLE STATE REQUIREMENTS. This rule is important to the SAFE USE AND OPERATION of the product. All customers must obey this SAFETY RULE.

Information on FMVSS 571.500 is found at Title 49 of the Code of Federal Regulations, section 571.500. For information online, go to www.ecfr.gov.

Vehicles are used for different purposes, so it is not possible to know and inform of every possible occurrence. Be careful when you drive to prevent avoidable personal injury or damage to the vehicle. All users must read and obey this manual. Make sure you give special attention to the CAUTIONS, WARNINGS and DANGERS.

For questions about this vehicle, contact your ICON/EPIC dealer or write to the address on the back cover of this publication, Attention: Customer Care Department.

SAFETY

Read all of **SAFETY** and this section before attempting any procedure. Pay particular attention to **Notices, Cautions, Warnings and Dangers**.

ICON reserves the right to make design changes without obligation to make these changes on units previously sold. The information contained in this manual is subject to change without notice.

ICON IS NOT LIABLE FOR ERRORS IN THIS MANUAL. ICON IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES THAT RESULT FROM THE USE OF THE MATERIAL IN THIS MANUAL. This vehicle meets the current applicable standard for safety and performance requirements. These vehicles are for off-road use. They **DO NOT** meet the Federal Motor Vehicle Safety Standards of the United States of America (USA) and are not equipped for operation on the public streets. Some areas allow the operation of the vehicles on their streets according to local codes. Refer to **GENERAL SPECIFICATIONS** for capacity of the vehicle.

WARNING

Never modify the vehicle in any way that will alter the weight distribution of the vehicle, decrease its stability, increase the speed or extend the stopping distance beyond the factory specification. Such modifications can result in serious personal injury or death.

ICON is not responsible for changes that cause the vehicle to be dangerous. Do not let anyone below the height of 59 inches (150 cm) operate the vehicle.

GENERAL OPERATION

Read the following warnings before attempting to operate the vehicle:

WARNING

When you leave the vehicle, turn the key to the OFF position and remove the key from the vehicle.

Drive the vehicle only as fast as terrain and conditions allow. Consider the terrain and traffic conditions. Consider environmental conditions that change the terrain and your ability to control the vehicle.

Do not drive fast downhill. Sudden stops or change of direction can cause a loss of control. Use the brake to control the speed of the vehicle when you drive down a slope.

When possible, stay in approved areas. Do not drive on steep slopes.

Always keep feet, legs, hands and arms inside vehicle.

Do not drive on rough terrain.

Before you drive in the reverse direction, make sure the area behind the vehicle is clear. Make sure the direction selector is in the correct position before you press the accelerator pedal.

Decrease speed before and during turns.

Make sure you completely stop the vehicle before you move the direction selector.

See **GENERAL SPECIFICATIONS** for the vehicle load and seat capacity.

SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

NOTICE

Read the following text and warnings before you service the vehicle.

Normal use, wear or abuse can cause some components on the vehicle to fail. The manufacturer cannot know all possible component failures or the methods that failures can occur.

A vehicle in need of repair does not function properly and can be dangerous to operate.

Be careful when you service the vehicle. Be aware of your safety and the safety of other people in the area.

Some components are heavy, spring loaded, corrosive, explosive, can cause high amperage or get hot. Battery acid and hydrogen gas can cause injury. Do not put your hands, face, feet or body in a location that can expose them to injury if an unexpected situation occurs.

Always use the correct tools shown in the tool list and wear safety equipment.

! WARNING

Remove all jewelry before you service the vehicle.
Do not allow loose clothing or hair to contact the moving parts.

Do not touch hot objects.



When you service the vehicle, always wear eye protection.
Be careful when you work around batteries, use solvents or compressed air.

ALWAYS:

- Use the vehicle in a responsible manner and keep the vehicle in safe condition for operation.
- Read and obey all warnings and operation instruction labels on the vehicle.
- Follow all safety rules in the area where the vehicle is operated.
- When there is a risk of lightning, leave the vehicle and look for a safe location to wait until the lightning has stopped.
- Drive the vehicle only as fast as terrain and conditions allow.
- Apply the brake to control speed on steep grades.
- Keep enough distance between vehicles.
- Decrease speed in wet areas.
- Be careful when you make sharp turns, or turns you are not familiar with.
- Be careful when you drive on loose terrain.
- Be careful when you operate the vehicle around people.

MAINTENANCE

ALWAYS:

- Replace damaged or missing warning, caution or information labels.
- Service the vehicle according to the periodic service schedule in this manual.
- Make sure that approved and qualified personnel do all repairs.
- Follow the manufacturer's maintenance procedures.

SAFETY

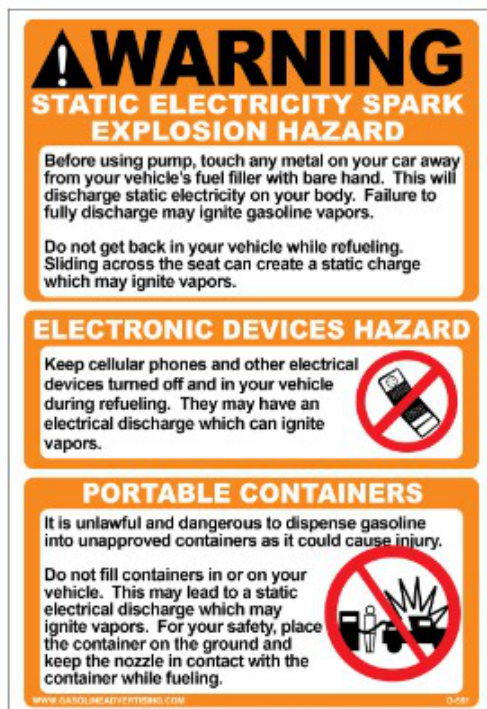
Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

- Use insulated tools within the battery area to prevent sparks or battery explosion.
- Use specified replacement parts. DO NOT use replacement parts of lesser quality.
- Use recommended tools.
- Use wheel chocks and support vehicles with jack stands. NEVER get below a vehicle that is supported by a jack.
- Make sure that tools and procedures not specified by the manufacturer, will not be a safety risk to personnel or operation of the vehicle.
- Lift the vehicle according to the manufacturer's instructions.
- Make sure you service the vehicle in an area away from open flame or sparks.
- Know that a vehicle in need of repair does not operate correctly and can be dangerous to operate.
- Test drive the vehicle after any repairs or maintenance in a safe area that is free of both vehicular and pedestrian traffic.

Vehicles are used for different purposes, so it is not possible to know and inform of every possible occurrence. Be careful when you drive to prevent avoidable personal injury or damage to the vehicle. All users must read and obey this manual. Make sure you give special attention to the CAUTIONS, WARNINGS, and DANGERS. People who do maintenance or repairs on the vehicle must have skill and expertise to identify and prevent conditions that can cause personal injury, or death, and damage to the vehicle.

VENTILATION

Always store gasoline vehicles in an area with good ventilation. Good ventilation prevents the accumulation of gasoline fumes within an enclosed area. Never put fuel in a vehicle in an area that is subject to flame or spark. Pay particular attention to natural gas or propane water heaters and furnaces. Never work around or operate a vehicle in an environment that does not allow ventilation of exhaust gases from the area. Carbon monoxide is a dangerous gas that can cause unconsciousness and is potentially lethal.



SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

LABELS & PICTOGRAMS



⚠ WARNING	DO NOT TAMPER WITH OR ATTEMPT TO CHANGE THE ADJUSTMENT OF THE GOVERNOR. GOVERNOR TAMPERING CAN RESULT IN SERIOUS PERSONAL INJURY AND WILL VOID THE VEHICLE WARRANTY.
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⚠ WARNING	Failure to follow these instructions can result in SERIOUS INJURY or DEATH
<p>Except where PERMITTED BY LAW: To be operated by persons with valid drivers licenses, in accordance with state requirements. Operate from Driver's side only.</p> <p>Reduce the RISK OF ACCIDENTS: For non-road use, and in designated areas only. Do not operate under the influence of drugs or alcohol.</p> <p>AVOID FALLS from the vehicle: All occupants must be fully seated, keep entire body inside vehicle and hold on while vehicle is in motion.</p> <p>STARTING the vehicle: Apply service brake, move direction selector to desired position and accelerate smoothly. On Gas Vehicle, direction selector is the F-N-R. On Electric vehicle, direction selector is the key switch.</p> <p>DO NOT OVERLOAD the vehicle: Maximum vehicle payload is 800 lbs. (363 kg) including a maximum of 2 persons, options, and accessories.</p> <p>Drive with CAUTION: Drive slowly straight up and down slopes and in turns. Use care in reverse, congested areas, and wet or loose terrain.</p> <p>STOPPING the vehicle: To stop, release accelerator pedal and apply service brake.</p> <p>PARKING the vehicle: Before leaving vehicle, turn key 'OFF'. On Gas vehicle, move the direction selector to "FORWARD" and engage park brake.</p>	

⚠ IMPORTANT
87 OCTANE OR HIGHER ONLY

SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

LABELS & PICTOGRAMS

READ THE MANUAL
OPERATE ACCORDING
TO LOCAL LAWS AND
REGULATIONS
USE CAUTION IN
BAD WEATHER

GASOLINE VEHICLES
FORWARD OPERATION
 * TURN KEY TO 'ON'
 * MOVE DIRECTION
 SELECTOR TO 'F'
 * PRESS ACCELERATOR
 PEDAL GENTLY

REVERSE OPERATION
 * TURN KEY TO 'ON'
 * MOVE DIRECTION
 SELECTOR TO 'R'
 * PRESS ACCELERATOR
 PEDAL GENTLY

PARK VEHICLE
 * MOVE DIRECTION
 SELECTOR TO 'F'
 * TURN KEY TO 'OFF'
 * APPLY PARKING
 BRAKE

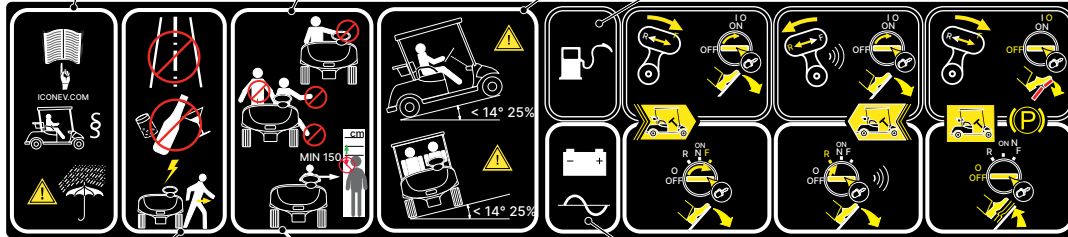
OPERATE FROM
DRIVER SIDE ONLY

DO NOT STAND UP
AND KEEP ENTIRE
BODY INSIDE VEHICLE

MINIMUM HEIGHT TO
OPERATE VEHICLE IS
150 CM

MAXIMUM RAMP
OR HILL

MAXIMUM CROSS
RAMP OR HILL



DO NOT DRIVE
ON HIGHWAY

DO NOT OPERATE
IF USING DRUGS
OR ALCOHOL

DO NOT OPERATE
VEHICLE WHEN
LIGHTNING IS
IN THE AREA

ELECTRIC VEHICLES
FORWARD OPERATION
 * TURN KEY TO 'F'
 * PRESS ACCELERATOR
 PEDAL GENTLY

REVERSE OPERATION
 * TURN KEY TO 'R'
 * GENTLY PRESS
 ACCELERATOR
 PEDAL

PARK VEHICLE
 * TURN KEY
 TO 'OFF'

READ THE
MANUAL
REPLACEMENT
AVAILABLE AT
www.ICONEV.com

WARNING:
**NEGATIVE GROUND
ELECTRICAL SYSTEM**



WARNING:
SHORTING ACROSS
TERMINALS MAY CAUSE
BATTERY EXPLOSION

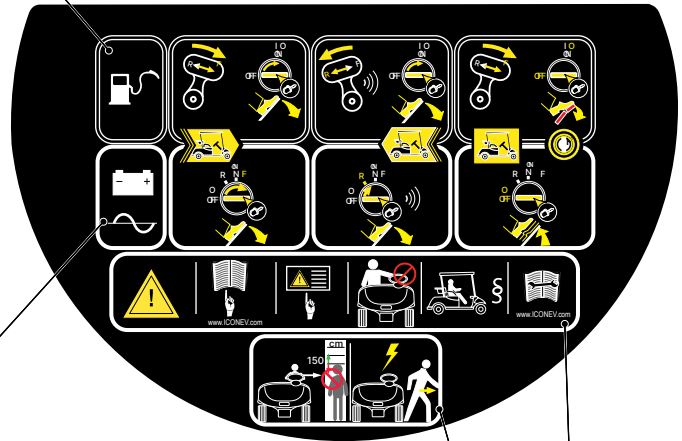


SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

LABELS & PICTOGRAMS

GASOLINE VEHICLES	FORWARD OPERATION * TURN KEY TO 'ON' * MOVE DIRECTION SELECTOR TO 'F' * PRESS ACCELERATOR PEDAL GENTLY	REVERSE OPERATION * TURN KEY TO 'ON' * MOVE DIRECTION SELECTOR TO 'R' * PRESS ACCELERATOR PEDAL GENTLY	PARK VEHICLE * MOVE DIRECTION SELECTOR TO 'F' * TURN KEY TO 'OFF' * APPLY PARKING BRAKE
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ELECTRIC VEHICLES	FORWARD OPERATION * TURN KEY TO 'F' * PRESS ACCELERATOR PEDAL GENTLY	REVERSE OPERATION * TURN KEY TO 'R' * PRESS ACCELERATOR PEDAL GENTLY	PARK VEHICLE * TURN KEY TO 'OFF'
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MINIMUM HEIGHT TO OPERATE VEHICLE IS 150 CM	DO NOT OPERATE VEHICLE WHEN LIGHTNING IS IN THE AREA
---------------------------------------------	------------------------------------------------------

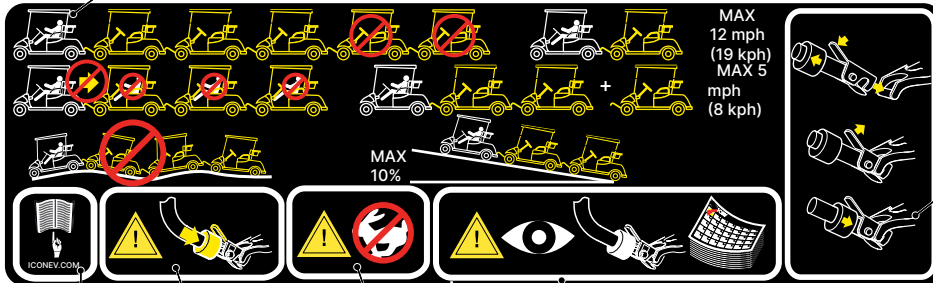
WARNING	READ THE MANUAL REPLACEMENT IS AVAILABLE AT www.ICONEV.com	READ ALL LABELS	OPERATE FROM DRIVER SIDE ONLY	OPERATE ACCORDING TO LOCAL LAWS AND REGULATIONS	MAINTAIN ACCORDING TO SERVICE & REPAIR MANUAL AVAILABLE AT www.ICONEV.com
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SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

LABELS & PICTOGRAMS

DO NOT TOW MORE THAN 3 VEHICLES MAX 12 mph (19 kph) TOWING 1 VEHICLE
DO NOT DRIVE IN REVERSE WHEN TOWING VEHICLES MAX 5 mph (8 kph) TOWING 2 or 3 VEHICLES
NO PASSENGERS IN TOWED VEHICLES
DO NOT TOW VEHICLES OVER UNEVEN TERRAIN 10% MAX SLOPE FOR TOWING VEHICLES



WARNING
ENGAGE
LOCKING
COLLAR

WARNING
DO NOT
DRIVE
FAST

WARNING INSPECT TOW BAR
SYSTEM EVERY 30 DAYS

READ THE
MANUAL
REPLACEMENT
AVAILABLE AT
www.ICONEV.com

TOW BAR OPERATION

- * PULL LOCKING COLLAR AWAY FROM LATCH AND PRESS ON LATCH TAB TO OPEN
- * PLACE LATCH OVER FRONT TOWING BRACKET
- * CLOSE LATCH AND MOVE LOCKING COLLAR UNDER LATCH TAB
- * DO NOT TOW MORE THAN 3 VEHICLES
- * 12 mph (19 kph) MAX SPEED TOWING 1 VEHICLE
- * DO NOT DRIVE IN REVERSE WHEN TOWING VEHICLES
- * NO PASSENGERS IN TOWED VEHICLES
- * DO NOT TOW VEHICLES OVER UNEVEN TERRAIN 10% MAXIMUM SLOPE FOR TOWING VEHICLES



SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

LABELS & PICTOGRAMS



NO MORE THAN
2 OCCUPANTS IN
EACH SEAT

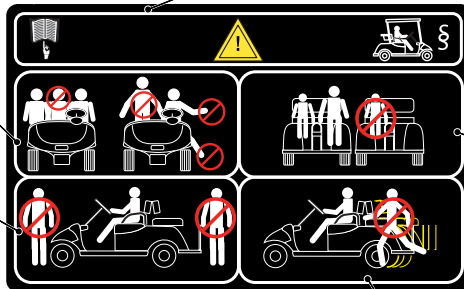
DO NOT STAND UP
AND KEEP ENTIRE
BODY INSIDE
VEHICLE

READ THE MANUAL
REPLACEMENT
AVAILABLE AT
www.ICONEV.com

WARNING

OPERATE ACCORDING
TO LOCAL LAWS AND
REGULATIONS

DO NOT STAND IN FRONT
OF OR BEHIND VEHICLE



CHILDREN MUST BE
ACCOMPANIED BY
AN ADULT

DO NOT ALLOW
CHILDREN TO
RIDE ALONE

DO NOT GET ON OR OFF
A MOVING VEHICLE

GENERAL SPECIFICATIONS

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

ICON[®]

2025 G40

LAST REVISED: 07/18/2024



2025 G40 Specs

- **Weight:** 600 lbs
- **Capacity:** 4 People
- **Overall Dimensions LxWxH:** 108inx49inx72in
- **Ground Clearance:** 7.5", 190.5mm
- **Colors:** White, Forest Green, Indigo Blue & Black



Power

- **Motor:** 401cc EFIA03, OHV with EFI
- **Closed Loop EFI Precisely Controls Fuel Efficiency**
- **Horsepower:** 13.5HP @3600rpm per SAE J1995
- **Battery:** 12V
- **Transaxle:** 10.3:1
- **Starter:** Starter / Generator - 20A - Stator
- **No Choke Starting - 20degC Cold Start Capability**
- **Speed Range:** 19mph to 24mph
- **Fuel Tank Capacity:** 4.3 Gallons / Est 40mpg

Body Configuration

- **Windshield:** Foldable Acrylic/Optional DOT Acrylic
- **Roof:** Innovative air deflecting design with full high-strength aluminum frame
- **Body:** Injection Molded Thermoplastic that is both stylish and resilient to outside damage
- **Mirrors:** Fully Adjustable and Foldable
- **Floor:** High-Density Polyethylene molded for extra strength and toughness with rubber floor mat
- **Wheels:** 12" Machined Face Aluminum with Powder Coated Accents
- **Tires:** 23x10.5-12 4 Ply Nylon Cord
- **Front Suspension:** Macpherson Style Fully Independent Coil Over Shock
- **Rear Suspension:** Solid Axle Coil Over Shock and Stabilizing Bar
- **Chassis:** Tubular Powder Coated Steel Frame
- **Instrumentation:** Fully Integrated Digital Instrument Cluster, Back-up Camera
- **Lighting and Signals:** Single Combination Switch for LED Projector Hi & Lo Beam Headlights, LED Signal Lights, Taillights, and Horn
- **Safety Restraint:** Side Hip Restraint & Retractable Seat Belts
- **Braking System:** Four Wheel Disc Brakes
- **Parking Brake:** Dual Electronic Parking Brake
- **Steering:** Self-Adjusting Double-Ended Rack and Pinion
- **Dash Components:** Forward/Reverse Switch, USB and 12V Plugs, Cubby Storage, Multiple Cup Holders, Key Switch, Instrumentation Cluster
- **Seats:** Thick Plush Seats with Custom Stitched Paneling, Marine Grade Vinyl, Solid Black or Brown, Color Matched with Black Accents. Foldable Rear Seat Perfect for Hauling. Built in Cooler Beneath Rear Seat.



GENERAL SPECIFICATIONS

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.



2025 G40L

LAST REVISED: 07/18/2024



2025 G40L Specs

- **Weight:** 848 lbs
- **Capacity:** 4 People
- **Overall Dimensions LxWxH:** 113inx53inx82in
- **Ground Clearance:** 16.5", 419.1mm
- **Colors:** White, Forest Green, Indigo Blue & Black



Power

- **Motor:** 401cc EFIA03, OHV with EFI
- **Closed Loop EFI Precisely Controls Fuel Efficiency**
- **Horsepower:** 13.5HP @3600rpm per SAE J1995
- **Battery:** 12V
- **Transaxle:** 10.3:1
- **Starter:** Starter / Generator - 20A - Stator
- **No Choke Starting - 20degC Cold Start Capability**
- **Speed Range:** 19mph to 24mph
- **Fuel Tank Capacity:** 4.3 Gallons / Est 40mpg

Body Configuration

- **Windshield:** Foldable Acrylic/Optional DOT Acrylic
- **Roof:** Innovative air deflecting design with full high-strength aluminum frame
- **Body:** Injection Molded Thermoplastic that is both stylish and resilient to outside damage
- **Mirrors:** Fully Adjustable and Foldable
- **Floor:** High-Density Polyethylene molded for extra strength and toughness with rubber floor mat
- **Wheels:** 12" Machined Face Aluminum with Powder Coated Accents
- **Tires:** 23/10.5 -12
- **Front Suspension:** Macpherson Style Fully Independent Coil Over Shock
- **Rear Suspension:** Solid Axle Coil Over Shock and Stabilizing Bar
- **Chassis:** Tubular Powder Coated Steel Frame
- **Instrumentation:** Fully Integrated Digital Instrument Cluster, Back-up Camera
- **Lighting and Signals:** Single Combination Switch for LED Projector Hi & Lo Beam Headlights, LED Signal Lights, Taillights, and Horn
- **Safety Restraint:** Side Hip Restraint & Retractable Seat Belts
- **Braking System:** Four Wheel Disc Brakes
- **Parking Brake:** Dual Electronic Parking Brake
- **Steering:** Self-Adjusting Double-Ended Rack and Pinion
- **Dash Components:** Forward/Reverse Switch, USB and 12V Plugs, Cubby Storage, Multiple Cup Holders, Key Switch, Instrumentation Cluster
- **Seats:** Thick Plush Seats with Custom Stitched Paneling, Marine Grade Vinyl, Solid Black or Brown, Color Matched with Black Accents. Foldable Rear Seat Perfect for Hauling. Built in Cooler Beneath Rear Seat.



GENERAL SPECIFICATIONS

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

ICON[®]

2025 G60

LAST REVISED: 07/18/2024



2025 G60 Specs

- **Weight:** 964 lbs
- **Capacity:** 6 People
- **Overall Dimensions LxWxH:** 134inx49inx75in
- **Ground Clearance:** 8", 203.2mm
- **Colors:** White, Forest Green, Indigo Blue & Black



Power

- **Motor:** 401cc EFIA03, OHV with EFI
- **Closed Loop EFI Precisely Controls Fuel Efficiency**
- **Horsepower:** 13.5HP @3600rpm per SAE J1995
- **Battery:** 12V
- **Transaxle:** 10.3:1
- **Starter:** Starter / Generator - 20A - Stator
- **No Choke Starting - 20degC Cold Start Capability**
- **Speed Range:** 19mph to 24mph
- **Fuel Tank Capacity:** 4.3 Gallons / Est 40mpg

Body Configuration

- **Windshield:** Foldable Acrylic/Optional DOT Acrylic
- **Roof:** Innovative air deflecting design with full high-strength aluminum frame
- **Body:** Injection Molded Thermoplastic that is both stylish and resilient to outside damage
- **Mirrors:** Fully Adjustable and Foldable
- **Floor:** High-Density Polyethylene molded for extra strength and toughness with rubber floor mat
- **Wheels:** 12" Machined Face Aluminum with Powder Coated Accents
- **Tires:** 23x10.5-12 4 Ply Nylon Cord
- **Front Suspension:** Macpherson Style Fully Independent Coil Over Shock
- **Rear Suspension:** Solid Axle Coil Over Shock and Stabilizing Bar
- **Chassis:** Tubular Powder Coated Steel Frame
- **Instrumentation:** Fully Integrated Digital Instrument Cluster, Back-up Camera
- **Lighting and Signals:** Single Combination Switch for LED Projector Hi & Lo Beam Headlights, LED Signal Lights, Taillights, and Horn
- **Safety Restraint:** Side Hip Restraint & Retractable Seat Belts
- **Braking System:** Four Wheel Disc Brakes
- **Parking Brake:** Dual Electronic Parking Brake
- **Steering:** Self-Adjusting Double-Ended Rack and Pinion
- **Dash Components:** Forward/Reverse Switch, USB and 12V Plugs, Cubby Storage, Multiple Cup Holders, Key Switch, Instrumentation Cluster
- **Seats:** Thick Plush Seats with Custom Stitched Paneling, Marine Grade Vinyl, Solid Black or Brown, Color Matched with Black Accents. Foldable Rear Seat Perfect for Hauling. Built in Cooler Beneath Rear Seat.



GENERAL SPECIFICATIONS

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

ICON®

2025 G60L

LAST REVISED: 07/18/2024



2025 G60L Specs

- **Weight:** 992 lbs
- **Capacity:** 6 People
- **Overall Dimensions LxWxH:** 149inx53inx82in
- **Ground Clearance:** 16.25", 412.75mm
- **Colors:** White, Forest Green, Indigo Blue & Black



Power

- **Motor:** 401cc EFIA03, OHV with EFI
- **Closed Loop EFI Precisely Controls Fuel Efficiency**
- **Horsepower:** 13.5HP @3600rpm per SAE J1995
- **Battery:** 12V
- **Transaxle:** 10.3:1
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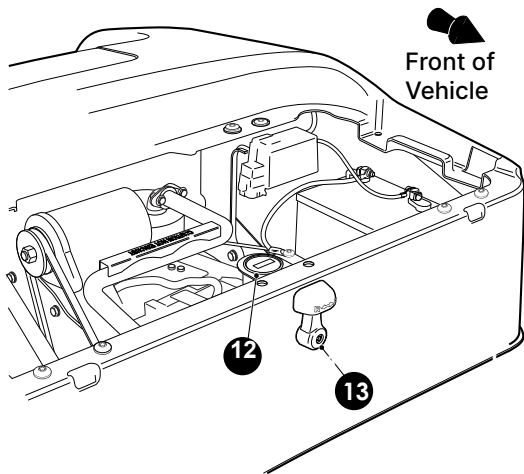
INTRODUCTION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

CONTROLS AND INDICATORS

Vehicle controls and indicators consist of:

1. Key Switch
2. Fuel Gauge (if equipped)
3. Head Light Switch (if equipped)
4. Turn Signal Switch (if equipped)
5. Horn Button (if equipped)
6. Hazzard Switch
7. Power Outlet, 12V (if equipped)
8. USB Port (if equipped)
9. Accelerator/Start Pedal
10. Brake Pedal
11. Parking Brake
12. Multifunction Meter
13. Direction Selector
14. Choke



INTRODUCTION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

FEATURES

General Information

Key Switch

CAUTION

To decrease the risk of component damage, stop the vehicle before you move the key switch or the direction selector.

The key switch (1) is located on the dash panel. The switch controls the basic electrical system of the vehicle to be turned on and off by turning the key. To prevent accidental operation of an unattended vehicle, turn the key to the OFF position and remove from the switch (Figure 1).

NOTICE

If the vehicle has accessories that were installed at the factory, some accessories continue to operate with the key switch in the OFF position.

Headlight Switch (if equipped)

If the vehicle is equipped with lights, the headlight ON/OFF switch (3) is located on the instrument panel to the left of the key switch (1) (Figure 1).

Turn Signal Switch (if equipped)

The turn signal switch (4) is on the steering column and controls the operation of the right and left turn signal lights (Figure 1).

Horn (if equipped)

The horn button (5) is located on the driver side of the floorboard. Press the button to activate the horn (Figure 1).

Fuel Gauge with Low Oil Pressure Indicator (if equipped)

The Fuel gauge (6) is located on the dash panel to the left of the key switch (1). The fuel gauge indicates the amount of fuel remaining in the fuel tank. The fuel gauge operates only when the key is in the ON position and the accelerator is pressed (Figure 1). The fuel gauge has a low oil pressure indicator. A low engine oil pressure condition is shown with an indicator light. The indicator light illuminates when the oil pressure is low. Check oil level. If the light is on and the oil level is between the ADD and FULL mark on the dipstick, the engine has a mechanical problem and you must not operate the vehicle. Contact a vehicle distributor or authorized branch.



Figure 1

CAUTION

To prevent engine damage, DO NOT operate the vehicle until the oil pressure is corrected. DO NOT over fill the engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

INTRODUCTION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

5-Volt Power Outlet (if equipped)

A single USB 5v 2.1amp power outlet is located to the right of the center com-partment. The outlet supplies continuous power for any accessories that have a 5-Volt plug, Also has a digital battery voltage gauge



Direction Selector

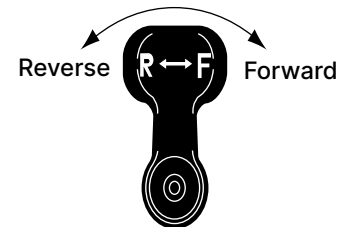
CAUTION

To reduce the possibility of component damage, the vehicle must be completely stopped before moving the direction selector.

The direction selector is located on the seat panel and allows the operator to select F (forward) or R (reverse). The vehicle should be left in F and the parking Brake engaged when unattended. When you leave the vehicle, put the direction selector in the F position, engage the parking brake, turn the key to OFF position and remove the key.

When the direction selector is moved to the R position, a reverse warning buzzer activates as well as the reverse camera display on the screen .

Multifunction Meter



The ICON gas cart is equipped with a Multi Function meter that displays speed, fuel level, turn signals, high beam, parking brake indicator's and odometer and MIL indicator

1. MIL indicator
2. Low fuel indicator
3. Parking Brake Indicator
4. Low battery indicator
5. Low Oil Indicator
6. High Beam Indicator
7. Right Turn Signal indicator
8. Left Turn Signal Indicator



INTRODUCTION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Display interface

1. Boot screen



2. Function

- Set kilometers and miles;
- Set date and time;
- Set the Bluetooth switch;
- Set Chinese and English; parameter settings;
- Set the reversing image switch;

3. Operation Instructions



1. Set kilometers and miles.

Press the SEL button to switch between kilometers and miles.

SCREEN OPERATION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.



2. Set date and time.

On the power-on interface, long press the MODE button to enter the date and time settings. The year and time in the upper right corner will flash. Press the MODE button to set the year-month-day-hour-minute function. Press the SEL button to set the value digitally. After setting the year, month, day, and time, continue to press the MODE button to enter the next menu setting interface. When you need to exit, you need to long press the SEL button again on the next interface to exit the year, month, day, and time setting menu.



3. Set up Bluetooth.

Press the MODE button in the picture to enter the menu setting interface of Bluetooth, language, parameter setting, reversing image, etc. Press the SEL button to set the Bluetooth switch status [Open].

SCREEN OPERATION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.



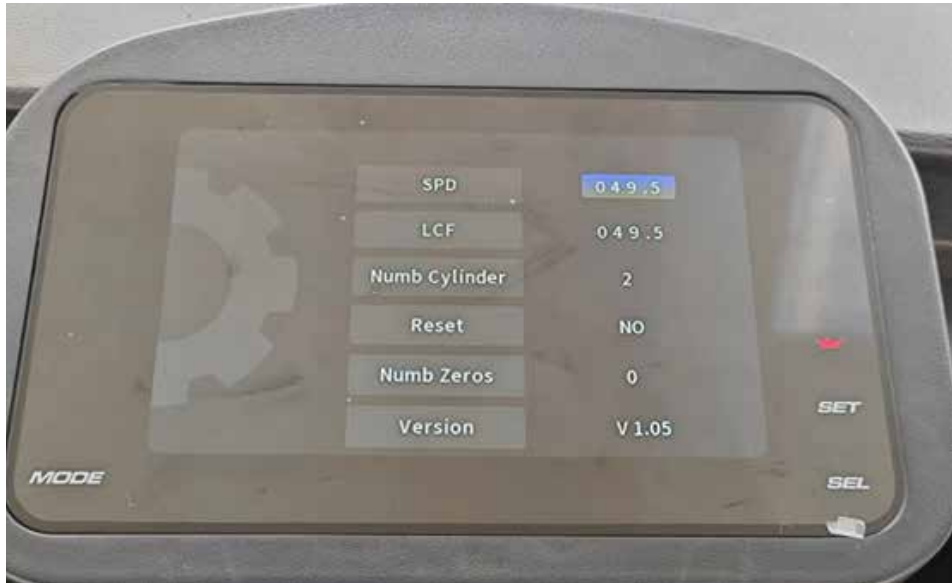
4. Set language - switch between Chinese and English.

Press the MODE button again to enter the next language menu directly from Bluetooth. Next, press the SEL button to switch between [EN] and [Chinese].



SCREEN OPERATION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.



5. Parameter Settings.

Press the MODE button to enter the parameter setting menu. Press the SEL button to set the three-digit password 111. Next, press the SET button to select the first digit, and then press the SEL button to select the value of the first digit from 0 to 9. Press the SET button to select the second and third digits, complete the password 111 input, enter the correct password and press the SET button to enter the parameter setting (it is recommended not to set or modify the parameters, as it is easy to report a fault). Press MODE to move the menu data up and down, press the SEL button to set the number, and long press the SEL button to exit the specific page of the parameter setting and return to the menu where the parameter setting is located.



6. Reversing image settings.

In the menu, directly press the MODE button to enter the reversing image menu setting. If the screen displays the [Close] state, press the SEL button to switch to the [Open] state, and the reversing image function is turned on. Next, press and hold the SEL button, the screen exits the menu setting screen and returns to the boot screen. To verify the function is turned on, you can adjust the gear to the R reverse gear to determine whether the reversing image function is turned on successfully. If it is not turned on, you can press the MODE button to enter the menu setting and set it again according to the above operation.

INTRODUCTION

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

⚠ WARNING

Accidental movement of the accelerator pedal can cause the vehicle to suddenly move and cause severe injury or death.

Accelerator Pedal

With the key switch in the ON position, press the accelerator pedal to start the engine. When the pedal is released, the engine will stop. To stop the vehicle immediately, press the brake pedal.

When you press the accelerator pedal, the parking brake will be released if it is engaged. This is a feature to assure the vehicle is not driven with the parking brake engaged.

Brake Pedal

The foot operated hydraulic brake operates the 4 wheel disk brake system

NOTICE

ELECTRIC PARKING BRAKE SYSTEM

The ICON parking brake system consist of electric servo assisted rear disk brake calipers, a dash mounted momentary rocker switch and a parking brake control module. when the parking brake switch is pushed the electric servo motor on the rear brake calipers that rotates a worm drive screw that that pushes caliper piston to clamp the rear brake disk until locking force is felt by the stepper motor sensor. The parking Brake will remain applied until the throttle pedal is applied, then the servo motor will unscrew releasing the brake pads from the rotor.

NOTE: the parking brake will not engage while the vehicle is in motion and must be completely stopped to engage the electric parking brake. The parking brake will not disengage by continually pushing the Brake switch and doing so could possibly blow the 20Amp EPB fuse



OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

MANUAL PARKING BRAKE DISENGAGEMENT

The ICON gas cart is equipped with a manual disengagement system the procedure to disengage the parking brake if it gets stuck is as follows:

On the G20 and G40 Remove the front Drivers seat, On the G60 Remove the rear passenger seat
First locate the the 3 yellow connectors zip tied to the passenger side frame down tube

NOTE: Body panels have been removed for clarity



Parking Brake Override



Parking Brake override leads and parking Brake

Remove the protective caps from the 3 yellow Brake override leads and install onto the 3 leads removed from the parking brake controller

NOTE: These connection can only be made one way, and the 2 Black/Yellow leads from the override harness it doesn't matter which 2 Black/Blue - Black/Green female controller leads are plugged in



OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Once the override system is connected press the override parking brake switch located on the passenger side towards the back of the frame under the seat what the engine bay is located. Do not hold the override switch as it only needs to be pressed once. Once the parking brake has been manually release reconnect the connectors to the controller and reinstall the override harness lead cap covers. If the parking brake continues to not disengage the parking brake system will need to be serviced by your local ICON service dealer



SEATS AND RESTRAINTS

Front Seat

The front seat is for two people, one person on each side of the seat

Rear Seats

The rear seats are also for two people, one person on each side

Front Hip Restraint

The front hip restraints help people stay in position while the vehicle is in motion

Cup Holder

The vehicle has 2 cup holders for the benefit of both the driver and passenger

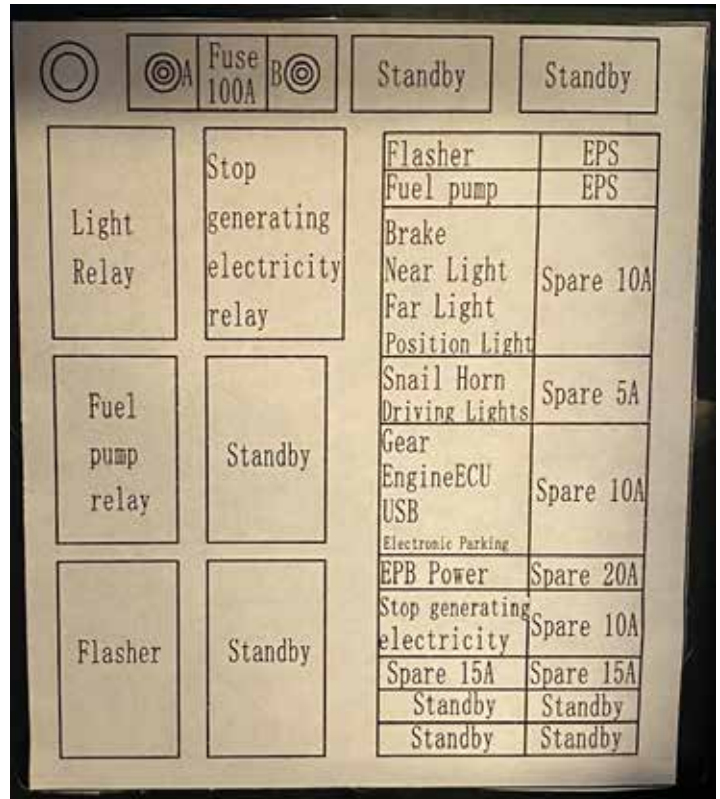


OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

FUSE AND RELAY BOX

The ICON gas cart is equipped with a full relay and fuse box. If any component of the cart is not functioning it is always important to check all the fuses first before any other diagnosis is performed



OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

SERIAL NUMBER LOCATION

The serial number and manufacture date code labels are on the vehicle. The LTA model number tag is located directly under the steering column on the floor board kick panel (figure 1) Design changes occur continuously. When you order service parts, the Chassis LTA number, Product name and model number (Figure 2)



Figure 1 Serial Number



Figure 2

OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

BEFORE INITIAL USE

Read, understand and follow the safety label on the cup holder. Make sure you understand how to safely operate the vehicle and its equipment.

WARNING

Reckless use of this vehicle can cause severe injury or death. This vehicle is a light duty vehicle, NOT an All Terrain Vehicle (ATV). Do not engage in rough or reckless operation of this vehicle. If you do not know the terrain, make sure you prepare for unexpected occurrences. If the vehicle does not move, runs out of gas, or a battery runs out of charge, a one hour drive can take many hours to return on foot. To prevent battery explosion, keep all flammable materials, open flame, or sparks away from the battery. Never charge a battery near flammable materials, open flames or sparks. Never charge a battery near gas water heaters and furnaces. Before a new vehicle is put into operation, do the items shown in the INITIAL SERVICE CHART.

INITIAL SERVICE CHART	
Item	Service Operation
Seats	Remove the protective plastic cover.
Brakes	Check the operation.
Tires	Calculate the distance necessary to stop the vehicle for the brake performance test.
	Check air pressure (18 - 22 psi).
Fuel	Fill tank with correct fuel.
Engine	Check oil level.
General	Check for possible fluid leaks that may have developed during shipment.

HOW TO OPERATE THE VEHICLE

CAUTION

Incorrect use of the vehicle or the lack of proper maintenance can cause damage or decreased performance.

Read the following warnings before you operate the vehicle.

WARNING

Make sure you know the terrain and traffic conditions. Make sure you know environmental conditions that change the terrain and your ability to control the vehicle. Drive the vehicle only as fast as terrain and conditions allow.

OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

When possible, stay in approved areas. Do not drive on steep slopes. Do not drive fast downhill. Sudden stops or change of direction can cause a loss of control. Use the brake to control the speed of the vehicle when you drive down a slope. To prevent loss of control, do not move the direction selector when the vehicle is in motion. If you move the selector, the speed will immediately decrease and a warning device will activate. Decrease speed before and during turns. Do not drive the vehicle up, down, or across a slope that is more than 14 degrees (25% grade). See GENERAL SPECIFICATIONS for the vehicle load and seat capacity. When the accelerator pedal is pressed, the foot-operated parking brake releases and can cause accidental or sudden vehicle movement. When the vehicle is parked, make sure the key is in the OFF position. When you leave the vehicle, turn the key to the OFF position and remove the key from the switch to prevent accidental operation. Make sure the direction selector is in the correct position before you press the accelerator pedal. Make sure you completely stop the vehicle before you move the direction selector to a different position. Do not take the vehicle out of gear while in motion. Before you drive in a reverse direction, make sure the area behind the vehicle is clear. Driver and passengers must stay in their seats while the vehicle is in motion. Always keep feet, legs, hands and arms inside the vehicle while in motion.

WARNING

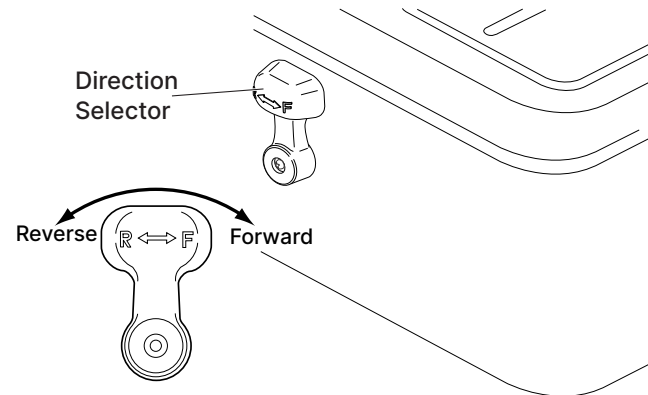
To prevent loss of control, do not move the direction selector to a different position while the vehicle is in motion. If you move the selector, the speed will immediately decrease and a warning device will activate.

Move the direction selector to F (Forward) to move in the forward direction.

Move the direction selector to R (Reverse) to move in the reverse direction. A reverse warning buzzer activates when the direction selector is moved to the R position.

The position between F and R is the neutral position.

When you leave the vehicle, put the direction selector in the forward position, engage the parking brake and remove the key from the switch.



OPERATING PROCEDURES


Read all of **SAFETY** and this section before attempting any procedure. Pay particular attention to **Notices, Cautions, Warnings and Dangers**.


Accelerator Pedal Operation


WARNING


Be sure the brakes function properly. When brake pedal is pressed using moderate pressure, the vehicle should come to a smooth, straight stop. If the vehicle swerves or fails to stop, stops abruptly, or makes a grinding or squeaking noise, have the brake system checked and adjusted as required. Continued, moderate brake pedal pressure should be able to lock the wheels, but using lesser pressure should also permit a slow, gradual deceleration.


Brake Precautions

 **Warning:** Do not use fluid other than the recommended brake fluid as this will reduce brake efficiency. Use of incorrect fluid could result in the loss of vehicle control, serious personal injury or death.

 **Warning:** Only use brake fluid from a sealed container. Contamination with dirt, water, petroleum products or other materials may result in brake system damage or failure. Failure to adhere to this warning could result in the loss of vehicle control, serious personal injury or death.

 **Warning:** Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your physician.

 **Warning:** The brake system could be affected if the brake fluid level is below the MIN mark or above the MAX mark on the brake fluid reservoir.

 **Warning:** The user or dealer must use an air compressor-based bleeding system. Traditional bleeding methods are not recommended.

Locating the Brake Fluid Reservoir Checking the Brake Fluid



Park your vehicle on a level surface.

Look at the brake fluid reservoir to see where the brake fluid level is relative to the MIN and the MAX marks on the reservoir.

Note: To avoid fluid contamination, the reservoir cap must remain in place and fully tight, unless you are adding fluid. Location of reservoir is typically under the cup holder.

Brake Fluid Specification

Use fluid that meets the defined specification and viscosity grade. (DOT4)

If you do not use fluid that meets the defined specification and viscosity grade, it could result in:

- Component damage that your vehicle warranty does not cover
- Reduced brake performance, which could result in loss of control of the vehicle, serious personal injury or death.

Brake Dust Cover

Your ICON gas cart is equipped with 4-wheel disc brakes. In order to protect the rotors, brake dust shields have been added to the cart's brake system. Please ensure they remain clear of contact with the rotors. This contact can result in damage to the rotor, or, at a minimum, can result in a slight, annoying grinding sound.

CAUTION

To prevent damage to the rear seat, move any accessories that are installed on the hand rail, when you fold the seat.

Fold the seat to the flat position to access the cargo platform.

WARNING

Secure the loads on the platform to prevent movement. Put the load on the platform as far forward as possible.

OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

The center of gravity of the load must be less than 4 inches (10 cm) above the platform. Do not put more than the specified capacity on the platform. Increased loads can change the driving properties of the vehicle. Do not allow passengers to ride on the cargo platform.

When you put cargo on the platform, make sure you follow the information below to decrease the risk of injury, damage to the vehicle or cause the vehicle to tilt over.

- Put the load on the platform as far forward as possible.
- Secure the loads on the platform to prevent movement.
- The center of gravity of the load must be less than 4 inches (10 cm) above the platform.
- The load capacity of the cargo platform is a maximum of 250 lbs. (115 kg). Do not put more than the specified capacity on the platform.

Increased loads can change the drive properties of the vehicle.

5V 2.1A USB Power Outlet

Overuse of accessories can drain the battery and leave insufficient charge to start the vehicle.

Excessive use of accessories that are connected to the outlet can drain the battery.

Lift the cover and insert the 5V 2.1A accessory USB plug.



STARTING AND DRIVING

To operate the vehicle:

- Apply the brake, put the key in the key switch and turn to the ON position.
 - Move the direction selector to the desired direction.
 - Press the gas momentarily to release the electric parking brake.
 - Slowly press the accelerator pedal to start the engine.
 - When the accelerator pedal is released, the ignition circuit is de-energized and the engine stops.
- To stop the vehicle quickly, press the brake pedal.

NOTICE

When the direction selector is in the reverse position, a warning signal activates as well as the reverse camera to indicate that the vehicle is ready to run in the reverse direction.

OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

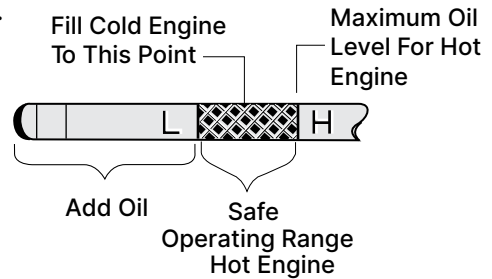
Run-In



Avoid full throttle starts and fast acceleration until the engine has reached operating temperature. All engines use more oil than normal during the first hours of operation. As internal moving parts are run-in, oil use will gradually decrease until the rate of use stabilizes. Check the oil level according to the Periodic Service Schedule. Add oil if the level on the dipstick indicates that oil is in the add oil range.



Do not overfill engine. Too much oil can cause engine to smoke or cause spark plug fouling.



NOTICE

The oil dipstick and fill cap must be in position before starting the engine. Failure to install the dipstick and fill cap will cause oil contamination and/or oil discharge into the engine compartment.

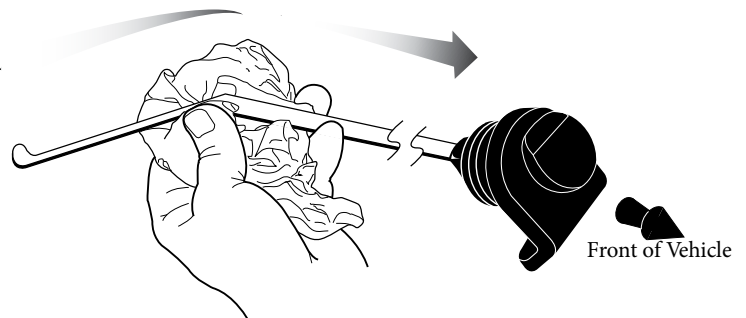
Oil dipsticks are unique to this model vehicle.

Do not use a dipstick from another engine.

Dipstick must be installed with the lip towards the front of the vehicle.

Change the oil according to the Periodic Service Schedule while the engine is warm.

See the Repair and Service Manual for procedures to check the oil level and change the oil.



Cold-Start

Press the accelerator 1 inch (2.5 cm) or until the starter begins to operate. The EFI is electronically controlled and designed to start and run in any elevation or climate so no starting assistance is needed



Do not allow the starter to operate continuously for more than 10 seconds. Allow 30 seconds between starting tries. If the vehicle does not start on the third try, turn the key to the OFF position, set the parking brake and find the cause of the problem.

OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Starting Vehicle On A Hill

WARNING

To decrease the risk of roll-back, do not release the brake until the engine has started.

CAUTION

Do not use the accelerator and engine to hold the vehicle on a hill. Doing so will cause early and

To decrease the risk of permanent damage to the drive train, do not allow roll-back when you start

Put left foot on brake and release the electric parking brake. Press the accelerator with right foot and

WARNING

Do not allow the vehicle to coast at above recommended speeds. Control vehicle speed with the brake.

Steep hills allow the vehicle to move at faster speeds than speeds on a flat surface. To prevent the loss of vehicle control and possible injury, speeds must be controlled to the maximum level ground speed indicated in the GENERAL SPECIFICATIONS section. Apply the brake to control the speed.

FUEL

WARNING

To decrease the risk of severe injury or death from improper fuel handling:

Do not smoke near the fuel tank.

Do not add fuel near open flame or electrical items that can cause a spark.

Always handle gasoline in a well ventilated area.

Always wear eye protection to protect against splashed fuel and fuel vapors.

Inspect the fuel cap, tank and other components for leaks or damage that can cause a hazardous condition.

CAUTION

Oxygenated or reformulated gasoline, is mixed with alcohols or ethers. Excessive amounts of these blends can damage the fuel system or cause performance problems. If any operating problems occur, use gasoline with a lower percentage of alcohol or ether.

Use clean regular grade unleaded fuel. The Ethanol blend fuel up to 10% is permitted.

OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Do not use gasoline that contains methanol.

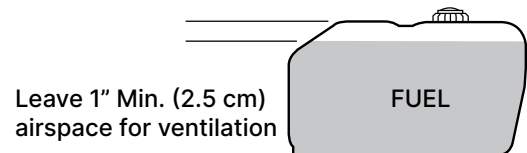
High altitude or heavy use/load applications can benefit from higher octane gasoline.

FUEL TANK

The fuel tank is found below the seat on the passenger side of the vehicle. Fill the tank with clean, automotive grade gasoline 87 octane or higher

WARNING

Always allow enough space for the expansion of gasoline. Leave at least 1-inch (2.5 cm) of space



Production Fuel Tank

Late production fuel tanks can be identified by the location of the fuel cap which is located in the rear of the top of the tank as shown.



OPERATING PROCEDURES

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

BATTERY



Heavy use of accessories drains the battery which can leave insufficient reserve to start the vehicle.

The vehicle uses a starter/generator to start the engine and charge the battery. The engine will not idle. The battery does not charge while the vehicle is stopped. Do not operate lights and other accessory items excessively while the vehicle is stopped.

The generator can supply 35 amps. Operation of all accessories can cause the discharge of the battery even if the engine is running and the generator is operating. Discharging the battery is known as deep cycling. The battery is not a deep cycle model. It is a starting battery. **Multiple deep cycling causes early failure of the battery.**

If the battery has discharged, charge it with a 12-volt charger that is rated at **10 amps or less** and according to instructions supplied by the manufacturer of the charger.

LABELS AND PICTOGRAMS

The vehicle can have labels with pictograms to provide information or warnings. Refer to the SAFETY section of this manual for the description of the labels.

SUN TOP AND WINDSHIELD (IF EQUIPPED)

The sun top does not provide protection from roll-over or falling objects.

The windshield does not provide protection from tree limbs or flying objects.

The sun top and windshield provide some protection from the elements; however, they will not keep the operator and passenger dry in heavy rain. This vehicle is not equipped with seat belts and the sun top has not been designed to provide roll-over protection. In addition, the sun top does not protect against falling objects, nor does the windshield protect against flying objects and tree limbs. Keep arms and legs inside whenever the vehicle is in motion.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

VEHICLE CLEANING AND CARE

WARNING

Read and understand all instructions supplied by the manufacturer of the pressure washer before use.

CAUTION

When you clean the outside of the vehicle with a pressure washer, do not use more than 700 psi pressure. Keep a minimum distance of 12 inches from the spray nozzle to the painted surface. Do not clean the plastic parts with abrasive solvents.

Make sure you use correct methods and cleaning materials to prevent risk of damage to the outside of the vehicle. The use of more than 700 psi water pressure can cause injury to anyone in the area or damage to vehicle.

Clean the windshield with water and a clean cloth. Remove small scratches with a plastic polish or Plexus® plastic cleaner, available from the service parts department.

Apply a soap and water solution with a sponge or soft brush to clean the vinyl seats and plastic or rubber trim. Dry with a cloth.

Use a commercially available vinyl and rubber cleaner to remove oil, tar, asphalt, shoe polish, etc.

Wash the vehicle frequently with cool water and mild detergent to protect the painted surfaces.

Apply wax that is for clear coat automotive finishes to improve the appearance and protection of the painted surfaces. Do not apply wax to matte finish surfaces.

Materials used as fertilizers or for dust control can collect on the bottom of the vehicle. These materials will cause corrosion of components, unless cleaned with water. Clean areas where mud or dirt can collect. Loosen the sediment that is packed in closed areas to help with removal. Be careful not to damage the paint.

ENVIRONMENTAL CONCERNS

WARNING

As a responsible user, practice respect for all wildlife and their habitat. Respect private property and comply with all local laws and regulations governing the use of light duty utility vehicles.

Always be respectful of the environment.

Make sure you are permitted by property owners to operate the vehicle on their property.

There is a risk of fire when the vehicle is operated near combustible material.

Be careful of environmental hazards like steep slopes, tree branches, etc.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Battery Disposal

Return used batteries to the manufacturer or lead smelter for recycling. For neutralized spills, put residue in acid-resistant containers with absorbent material, sand or earth and discard according to state and federal regulations for acid and lead compounds. Contact authorized environmental authorities for information about disposal.

LIFTING THE VEHICLE

You must lift the front, the rear, or the entire vehicle for some service and maintenance operations.



The vehicle is not stable during the lifting process.

Make sure the vehicle is on a hard and level surface.

Never get below a vehicle that is supported by a jack only.

Make sure a vehicle that is supported on jack stands is stable before you get below the vehicle. Put wheel chocks in front and behind the wheels that remain on the ground.

Do not allow any person in or on the vehicle being lifted.



When you lift the vehicle, put the jacks and jack stands at the areas indicated only.

Tool List	Qty.	Tool List	Qty.
Floor Jack	1	Jack Stands.....	4
Wheel Chocks	4		

Remove payload from vehicle before lifting. No person(s) should be in or on the vehicle while lifting.

How to Lift the Entire Vehicle:

1. Install wheel chocks in front and behind each front wheel.
2. Center the jack under the bagwell.
3. Lift the vehicle enough to place two jack stands under the frame where the coil over shock mounting brackets are welded to the frame.
4. Lower the jack and test the stability of the vehicle on the two jack stands.
5. Place the jack under the center front just behind the bumper.
6. Lift the vehicle and place two jack stands under the frame where the instrument panel support is attached to the frame.
7. Lower the jack and test the stability of the vehicle on the jack stands.



MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

How to Lift the Rear of the Vehicle Only:

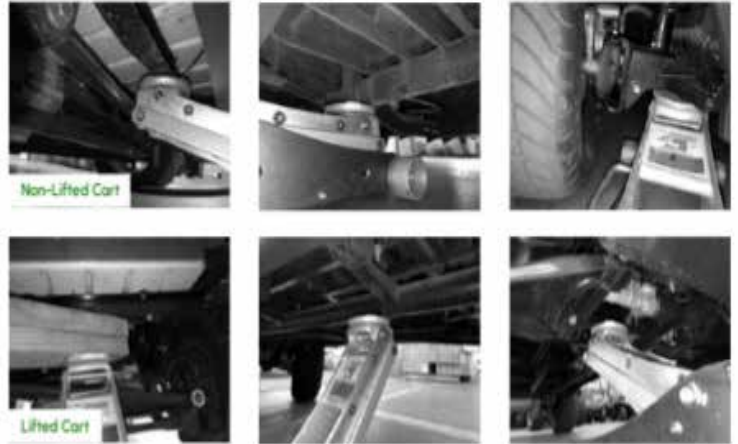
1. Install wheel chocks in front and behind each front wheel.
2. Center the jack under the bagwell.
3. Lift the vehicle enough to place two jack stands under the frame where the leaf spring mounting brackets are welded to the frame.
4. Lower the jack and test the stability of the vehicle on the two jack stands.

How to Lift the Front of the Vehicle Only:

1. Install wheel chocks in front and behind each rear wheel.
2. Place the jack under the center front just behind the bumper.
3. Lift the vehicle and place two jack stands under the frame where the instrument panel support is attached to the frame.
4. Lower the jack and test the stability of the vehicle on the two jack stands.

Lower the Vehicle:

1. Lift the vehicle enough to remove the jack stands.
2. Carefully lower the vehicle to the ground with the jack.



Jacking Points

On non-lifted carts there are several lifting points to safely lift your cart.

01. Rear of cart-cross brace of frame just behind the rear bumper.
02. Behind the front wheels on either side of the frame.
03. Front lower control arm mounting points on both sides.

On lifted carts there are several lifting points to safely lift your cart.

01. Rear of cart-cross brace of frame just behind the rear bumper.
02. Anywhere along the side of the frame as long as there is a stable contact point.
03. The center frame directly behind the steering rack.

WHEELS AND TIRES

WARNING

To decrease the risk of tire explosion, add small amounts of air to the tire at intervals to seat the tire beads. Over inflation of small tires can occur in a few seconds. Do not over inflate the tires. Excess pressure can cause the tire to separate from the wheel or explode.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Protect face and eyes when removing a tire valve core.

Use only sockets made for use with impact wrenches to decrease the risk of injury caused by a broken socket.

Do not use tires that have a recommended tire inflation pressure less than the tire pressure recommended.

Tire Repair

Tool List	Qty.	Tool List	Qty.
Lug Wrench, 3/4"	1	Impact Socket, 3/4"	1
Impact Wrench	1	Torque Wrench, ft. lbs.	1

Use caution when you inflate the tires. Because of the low volume of the small tires, over inflation can occur in seconds. Over inflation can cause the tire to separate from the wheel or cause a tire explosion.

The general recommended tire inflation pressure is 18-22 psi. Tire inflation pressure can be adjusted for the condition of the terrain.

For outdoor applications with primary use on areas with grass, consider the following:

- Slightly higher tire inflation pressure is suitable on hard turf.
- A lower pressure decreases the risk of tires cutting into a soft turf.

For hard surfaces or pavement, tire inflation pressure must be in the higher allowed range, but not more than recommended on the tire sidewall.

All four tires must have the same pressure for best control qualities. Always install the valve stem cap after you check or inflate the tires.

The vehicle has low-pressure tubeless tires, installed on one-piece rims.

Use a tire plug to repair small holes in the tread part of the tire. For large holes and cuts, replace the tire.

NOTICE

Tire plug tools and plugs are available at automotive outlets. The tires do not have to be removed from the wheel to install the tire plugs.

If the tire is flat, remove the wheel and inflate the tire to the recommended maximum pressure for the tire. Submerge the tire in water to find the leak and mark with chalk. Install the tire plug according to manufacturers instructions.

Wheel Installation



To decrease the risk of component damage, do not tighten lug nuts to more than 63 - 77 ft. lbs. (85 - 105 Nm) torque.

NOTICE

Always follow the cross-sequence pattern when you install the lug nuts to make sure the wheel is evenly seated against the hub.

MAINTENANCE

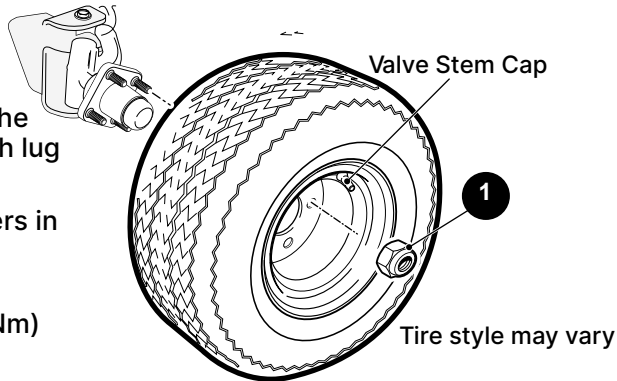
Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

With the valve stem to the outside of the wheel, install the wheel on the hub with lug nuts.

Tighten the lug nuts (1) with your fingers in the cross-sequence pattern shown.

Tighten the lug nuts to 63 - 77 ft. lbs. (85 - 105 Nm) torque in 20 ft. lbs. (27 Nm) increments.

Continue to follow the cross-sequence pattern until the correct torque is reached.



CAUTION

Head and Tail Light Replacement

Both the front and rear lights are LEDs and must be replaced as an assembly



MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

VEHICLE WITH A DISCHARGED BATTERY

WARNING

To decrease the risk of severe injury or death from accidental movement, do not use jumper cables to start the vehicle.

The vehicle has a starter/generator and does not idle. When you start the engine, the starter/generator functions as a starter and with the engine running, it functions as a generator.

The generator can keep the battery charged with the short run times with this type of vehicle. The generator will not charge a discharged battery.

When the engine starts, the clutches engage and cause the vehicle to move making 'jump starting' both dangerous and impractical.

If the battery has discharged, charge it with a 12-volt charger that is rated at 10 amps or less and according to instructions supplied by the manufacturer of the charger.

TRANSPORTING VEHICLE

Towing

WARNING

Do not ride or allow other people on the vehicle being towed.

DO NOT try to tow the vehicle with ropes, chains or any device other than a tow bar approved by the factory.

DO NOT tow a single vehicle at speeds in excess of 12 mph (19 kph).

DO NOT exceed 5 mph (8 kph) while towing multiple vehicles.

DO NOT tow more than three vehicles at a time.

Do not tow the vehicle on highways.

Servicing Drive system

To prevent the driven clutch from turning the rear wheels during service operations, Jack up the rear of vehicle and use suitable jack stands to ensure the vehicle will not accidentally move. And always stay clear of the rear wheels when servicing any of the drive components

MAINTENANCE

Read all of **SAFETY** and this section before attempting any procedure. Pay particular attention to **Notices, Cautions, Warnings and Dangers**.

Hauling

WARNING

Make sure you secure the vehicle and all items before you transport a vehicle on a trailer.

DO NOT allow any people on a vehicle being transported on a trailer.

Remove the windshield before you transport vehicle on a trailer.

Maximum speed with sun top installed is 50 mph (80 kph).

If you transport the vehicle on a trailer at highway speeds, the sun top must be removed and the seat bottom secured. When you transport the vehicle on a trailer below highway speeds, check for tight hardware and cracks in the sun top at the mounting points.

The rated capacity of the trailer or truck must be more than the weight of the vehicle and load plus 1000 lbs. (454 kg). See **GENERAL SPECIFICATIONS** for the weight of the vehicle.

Secure the vehicle to the trailer with ratchet tie downs.

SERVICE AND MAINTENANCE

WARNING

Read all notices, cautions and warnings before any type of service operations.

The drive wheels must be lifted and supported on jack stands before you do any service to the powertrain when the engine is in operation.

To decrease the risk of engine damage, do not operate the vehicle at full throttle for more than 5 seconds with the drive wheels lifted off the ground.

Disconnect the negative (-) battery cable before you service the vehicle to prevent accidental operation.

Wear eye protection when you service the vehicle. Be careful when you do work around batteries, or use solvents or compressed air.



To decrease the risk of an electrical arc, which can cause a battery explosion, disable all electrical loads from the battery before you remove the battery wires.

Use insulated wrenches to decrease the risk of a wrench falling on a battery to cause a short-circuit. A battery short-circuit can cause an explosion.

The electrolyte in a battery is an acid solution which can cause burns to the skin and eyes. Completely clean all electrolyte spills that contact the body and eyes with clear water. Contact a physician immediately.

Neutralize electrolyte spills with a solution of 2 teaspoons (10 ml) sodium bicarbonate (baking soda) mixed in 1 quart (1 liter) of water. Rinse with water.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Be careful when you use aerosol containers near battery terminals. Insulate metal containers to decrease the risk of a short-circuit or explosion if the container is dropped across the battery terminals.

The vehicle owner and service technician must carefully follow the procedures recommended in this manual. The preventative maintenance, applied at recommended intervals, keeps the vehicle dependable and decreases the costs for the repairs. Refer to the Periodic Service Schedule for service and intervals. Refer to LUBRICATION POINTS for correct lubrication locations.

CAUTION

ROUTINE MAINTENANCE

To increase the life of a vehicle that is used in harsh conditions, some maintenance must be done more often than recommended in the Periodic Service Schedule. Harsh conditions include high or low temperatures, high dust and dirt conditions, and high use with maximum load.

To access the powertrain for normal maintenance, lift or remove the seat and remove the rear access panel. For major repairs, refer to the applicable Technician's Repair and Service Manual.

Some service procedures make it necessary to lift the vehicle. Refer to LIFTING THE VEHICLE for the correct lift procedure and safety information.

Engine Specifications

Engine Model FJ400D
Type Four cycle, OHV
Number of Cylinders 1
Displacement 401 cc
Rated Horsepower 13 hp

Oil Filter Cartridge Type Full Flow Filter
Oil Pump Positive Displacement Pump
Cooling Forced Air Cooled
Spark Plug Gap028" - .031" (.70 - .80 mm)
Spark Plug Type NGK BPR2ES

Checking the Oil Level

CAUTION

Do not overfill engine. Too much oil may cause engine to smoke or cause spark plug fouling.

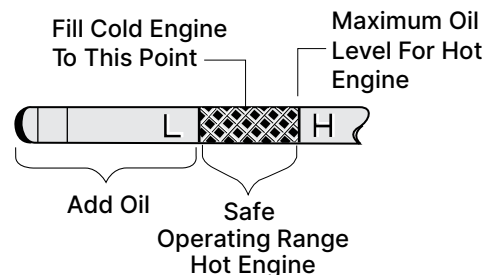
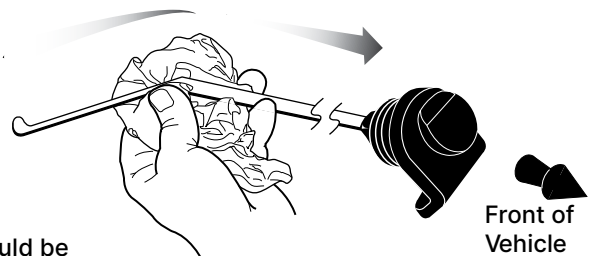
The oil should be checked with the engine warm. The vehicle should be on a level surface with the parking brake engaged. Allow adequate time for oil to drain into the crankcase before checking.

Remove the dipstick and wipe off the entire area with a lint free cloth. Insert the dipstick fully into the dipstick hole and remove. Examine the level of the oil on the dipstick.

The engine can be operated safely as long as oil is within the safe operating range as indicated on the dip stick. Do not operate vehicle if oil level is below the safe area indicated on the dipstick.

Oil should be added to bring the level into the safe operating range.

Remember that oil expands as it gets hot. Do not overfill. Check that the oil cap is firmly in place.



MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

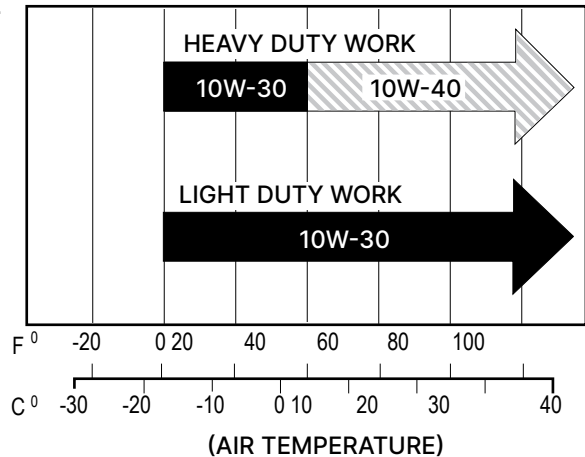
The oil dipstick/fill cap must be in place before operating the engine. Failure to install the dipstick/fill cap will result in oil becoming contaminated and/or oil being discharged into the engine compartment.

Changing the Oil

Tool List	Qty.	Tool List	Qty.
Socket, 19 mm	1	Oil Filter Wrench	1
Ratchet	1	Oil Drain Pan	1
Extension, 8"	1	Funnel	1

For maximum performance and longevity, the engine oil should be replaced after the first 8 hours of operation. After the initial oil change, it should be changed every 125 hours of operation or semi-annually, whichever comes first.

The selection of oil is dependent upon the service that the vehicle will perform. Most vehicles require 10W-30 oil, whereas vehicles used at capacity or near capacity load applications will require 10W-40 oil after a break-in period of 100 hours.



WARNING

Be aware that engine fluids are carcinogenic and may be hot. Contact to the skin may cause severe burns. Wear rubber gloves to protect skin from exposure to the old oil and degreaser.

The oil should be changed with the engine warm.

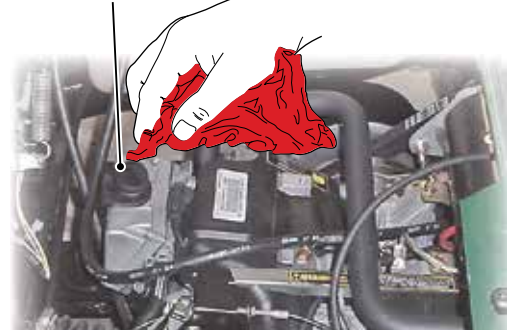
Park the vehicle on a level surface, engage the parking brake and remove the key.

Place a drain pan under the engine. Wipe the engine with a clean cloth. Remove the oil fill cap.

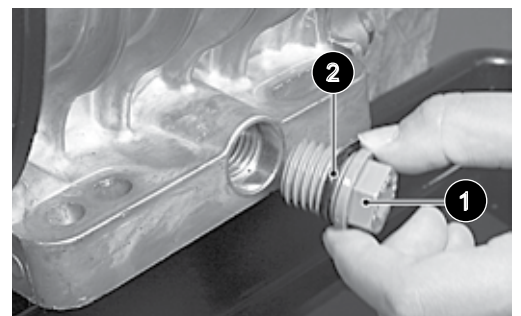
WARNING

Be careful of hot oil when drained. It may be hot enough to cause severe burns.

Oil Dipstick & Cap



Place an oil drain pan under the oil drain plug (1) located at the rear of the engine base. Remove the drain plug (1) and allow the oil to drain into the pan. At the first oil change, small metal chips and lint may be found. This is normal and a result of the engine break-in period. Inspect the filter at every oil change. The presence of large metal chips could indicate possible damage to the engine. Before installing the drain plug, clean the area around the drain hole with a lint free cloth and inspect the drain plug (1) for damage. Replace if necessary. If the O-ring (2) on the drain plug is damaged, replace it with a new one. Tighten the drain plug to 62 in. lbs. (7 Nm) torque.



MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

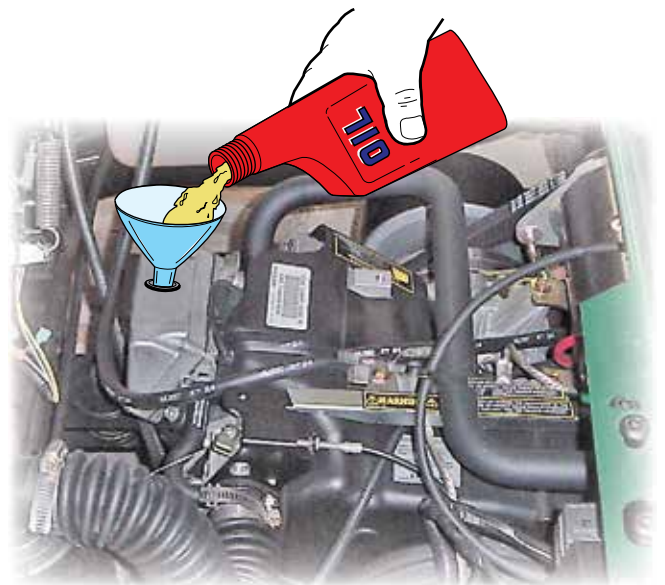
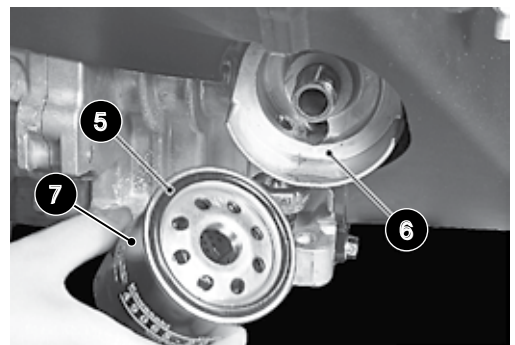
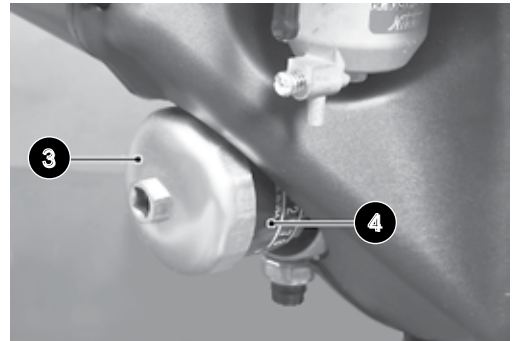
Clean the area around the oil filter. Use a filter wrench (3) to remove the oil filter (4) from the engine and allow the oil to drain.

The O-ring (5) may have remained on the engine (6) or the filter (7). If the O-ring (5) is on the engine surface (6), remove it and discard with the filter (7).

Inspect the new oil filter for any defects. Apply clean engine oil to the oil filter O-ring (5) and install the oil filter onto the engine until the seal contacts the mounting surface. Turn the filter 2/3 to 3/4 turn by HAND.

Pour in the specified type and amount of oil. See CAPACITIES AND REPLACEMENT PARTS.

The oil capacity is 1-1/3 quarts (1.3 liters). Add slightly less than 1-1/3 quarts (1.3 liters) to allow for possible residual oil left in the engine. The oil must be high quality and meet or exceed API SF, SG, CC standards. Check the oil level on the dipstick. Oil should be slightly below H to allow for expansion. If necessary, continue to add oil slowly and allow time for the oil to flow down into the engine. Check the oil level on the dipstick. Do not overfill.



CAUTION

Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

NOTICE

Both the oil dipstick and fill cap must be in place before operating the engine. Failure to install the dipstick and fill cap will result in oil being discharged into the engine compartment.

Start the vehicle. Allow the engine to run for a few minutes to fill up the oil filter. Stop the vehicle on a level surface, set the parking brake and remove the key. Check for oil leaks at the drain plug and oil filter. Tighten the drain plug or oil filter if a leak is found. Check the oil level on the dipstick. Add oil if necessary.

Oil increases in volume when warm. The full H mark on the dipstick is calibrated for an engine at operating temperature. When the engine is cold, the oil will be below the full mark. The engine can be operated safely as long as the oil is within the safe operating range as indicated on the dipstick. Do not operate vehicle if oil level is below the safe area indicated on the dipstick.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Starter Generator Belt Tension

Tool List	Qty.	Tool List	Qty.
Belt Tension Gauge	1	Wrench, 3/4".....	1
Wrench, 9/16"	2	Ratchet.....	1
Socket, 3/4"	1		

The starter/generator belt tension should be checked after the first 15 - 20 hours and set to 75 - 80 lbs. (34 - 36 kg).

WARNING

At no time during installation of belt, should the belt tension exceed 160 lbs (73 kg).

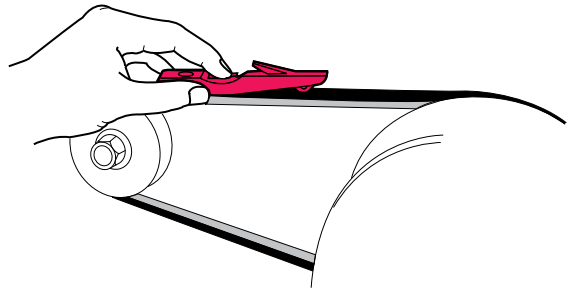
CAUTION

During installation, the belt must not be rolled over the edges of the starter/generator or drive clutch pulleys. Excessive stretch in belt may cause cord failure.

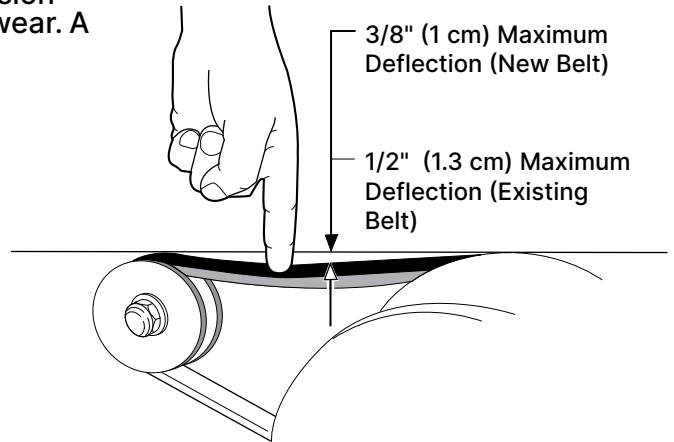
NOTICE

A loose belt can cause audible vibration and squeal.

Tighten a new starter/generator belt to 110 - 130 lbs. (50 - 59 kg) tension when a gauge is applied half way between the two pulleys. A new belt may be checked manually. A maximum deflection of 3/8" (10 mm) is acceptable.



Tighten an existing belt to 75 - 80 lbs. (34 - 36 kg) tension using the same technique and inspect for cracking or wear. A maximum deflection of 1/2" (13 mm) is acceptable.



MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Adjusting the Belt

Loosen the starter/generator pivot bolt. While holding the lower adjusting nut with a wrench, loosen the upper jam nut with another wrench. Move the lower nut up or down the adjustment bolt until the proper belt tension is achieved. Hold the lower nut in place and tighten the upper jam nut against it.

Tighten the starter/generator pivot bolt.



CAUTION

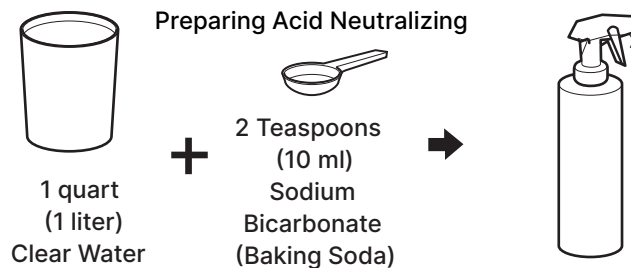
Battery Cleaning

To decrease the risk of damage to vehicle or floor, neutralize acid before you spray the battery with water.

To decrease the risk of damage to the electrical components while cleaning, do not use a pressure washer.

Clean the battery according to the Periodic Service Schedule.

When you clean the battery cases and terminals, do not use a water hose without neutralizing any acid deposits first. The water hose moves the acid from the top of the battery to another area of the vehicle or storage facility, where it can cause damage. Conductive residue on the battery will contribute to the discharge of the battery.



The correct cleaning method is to spray the top and sides of the battery with a solution of baking soda and water. Apply this solution with a plastic spray bottle. The solution is 2 teaspoons (10 ml) sodium bicarbonate (baking soda) mixed with 1 quart (1 liter) of water. Spray the solution on all metal components near the battery also.

Allow the solution to set a minimum of three minutes. Use a soft bristle brush or cloth to clean the top of the battery to remove residue that can cause the discharge of the battery. Clean the area with low pressure clear water.



WARNING

Be careful when you use the aerosol containers near battery terminals. Insulate metal containers to decrease the risk of a short-circuit or explosion if the container is dropped across the battery terminals.

Clean once a month, or more often in harsh conditions. After the battery is clean and dry, apply a commercially available protectant to the terminals.

TIRE INSPECTION

Inspect the tire condition according to the Periodic Service Schedule. Tire inflation pressures must be checked when the tires are cool. Always install the valve dust cap after you check or inflate the tires.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

BRAKES



Always inspect the pedal travel before you operate a vehicle to confirm brake function. Make sure you do all brake tests in a safe location with regard to the safety of all personnel.

NOTICE

A subtle loss of performance can occur over time; therefore, it is important to establish the standard with a new vehicle.

The Periodic Brake Performance Test should be performed regularly as an evaluation of braking system performance. It is useful as a method of identifying subtle loss of performance over time.

LUBRICATION



Do not use more than three pumps of grease in any grease fitting at any one time. Excess grease may cause grease seals to fail, or cause grease migration into areas that could damage components.

Putting more than three pumps of grease in a grease fitting could damage grease seals and cause premature bearing failure.

CAPACITIES AND REPLACEMENT PARTS

CAPACITIES	
Engine Oil	1.25 L (1.3 qt.)
Fuel Tank (early production)	5.1 gal (19.3 liters) 87 Octane minimum Fuel Tank (late production)
	5.2 gal (19.8 liters) 87 Octane minimum
Rear Axle Lubricant Oil	1.5 L (51 oz.) 70-90 gear







REPLACEMENT PARTS	
Oil Filter	Kawasaki P/N 49065-0724
Air Filter	3.201.16.010345
Spark Plug	NGK BPR2ES Kawasaki P/N 92070--
4006	3.02.014.0004
Starter/Gen. Belt	3.02.014.000427
Clutch Belt Fuse	ATC 10A (P/N 35212G07)
Headlight Assy R	3.202.01.010052
Head light Assy L	3.202.01.010051
Taillight Assy R and L	3.03.001.900063 3.03.001.900062

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

HARDWARE

Normally, three classes of standard hardware and three classes of metric hardware are used in the vehicle. Grade 5 hardware is identified by the three marks on the hexagonal head. Grade 8 hardware is identified by six marks on the head. Grade 2 hardware is not marked. The class specification is marked on metric hardware. Inspect the vehicle for loose fasteners periodically. The fasteners must be tightened carefully and according to the Torque Specifications table or as specified in the Repair and Service Manual.

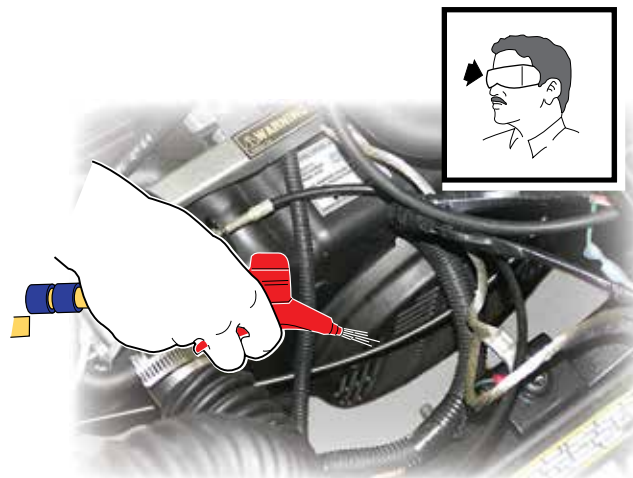
ALL TORQUE FIGURES ARE IN FT. LBS. (Nm)										
Unless otherwise noted in text, tighten all hardware in accordance with this chart.										
This chart specifies 'lubricated' torque figures. Fasteners that are plated or lubricated when installed are considered 'wet' and require approximately 80% of the torque required for 'dry' fasteners.										
BOLT SIZE	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	
Grade 2 	4 (5)	8 (11)	15 (20)	24 (33)	35 (47)	55 (75)	75 (102)	130 (176)	125 (169)	190 (258)
Grade 5 	6 (8)	13 (18)	23 (31)	35 (47)	55 (75)	80 (108)	110 (149)	200 (271)	320 (434)	480 (651)
Grade 8 	6 (8)	18 (24)	35 (47)	55 (75)	80 (108)	110 (149)	170 (230)	280 (380)	460 (624)	680 (922)
BOLT SIZE										
Class 5.8 (Grade 2) 		2 (3)	4 (6)	10 (14)	20 (27)	35 (47)	55 (76.4)			
Class 8.8 (Grade 5) 	2 (3)	4 (6)	7 (10)	18 (24)	35 (47)	61 (83)	97 (131)			
Class (Grade 8) 	3 (4)	6 (8)	10 (14)	25 (34)	49 (66)	86 (117)	136 (184)			

Torque Specifications and Bolt

AIR INTAKE AND COOLING FINS

WARNING

Engine parts should be kept clean to reduce the risk of overheating and ignition of accumulated debris. After every off road use, allow engine to cool and then check for a build up of dirt and debris in the air intake and cooling fins. Dirt and debris may clog the engine's air cooling system. Keep linkages, springs and controls clean. Keep area around muffler free of any combustible material.



At least once a year, (or more often under adverse conditions), the cooling system should be cleaned. Cleaning will assure an adequate supply of air to the cooling fins. Compressed air may be used for routine cooling system maintenance.

Operation in wet or damp weather or over freshly cut grass may result in debris accumulating and adhering to the internal shroud and fins of the cooling system.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

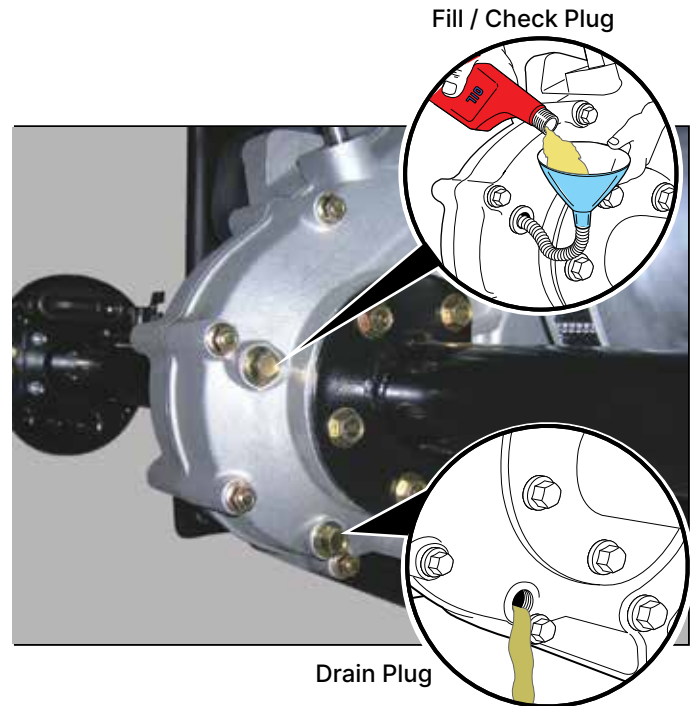
REAR AXLE

The rear axle is provided with a lubricant level check plug located on the driver side at the rear of the housing. Unless leakage of rear axle lubricant is evident, an annual lubricant check is sufficient.

Checking the Lubricant Level

Tool List	Qty.
Socket, 13 mm	1
Ratchet	1
Funnel	1

Clean the area around the check and fill plugs. Remove the check plug. The correct lubricant level is just below the bottom of the threaded hole. If lubricant is to be added, remove the fill plug and add lubricant using a funnel. Add lubricant slowly until lubricant starts to seep from the check plug hole. Install the check plug and the fill plug. In the event that the lubricant is to be replaced, a drain plug is provided at the bottom of the differential housing.



AIR CLEANER INSPECTION AND REPLACEMENT

The air cleaner unit on the vehicle is a dry unit. Do not use oil on the filter element or any part of the unit.

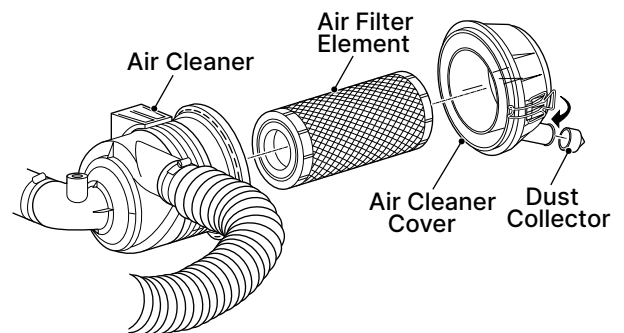
Cleaning the Air Filter Element



Do not use compressed air to clean the air filter; doing so will damage the filter, which may result in damage to the engine.

The air cleaner element is accessible by unsnapping the clips on the air canister and removing the cover and air filter element. Clean inside of cover, canister and dust collector. Install the element and cover the same way they were removed. Be sure the positioning arrow on cover is pointing upward and all clips are fastened securely.

If the element is in acceptable condition, loose dirt may be removed by tapping the filter lightly.



MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

SPARK PLUGS

Tool List	Qty.	Tool List	Qty.
Spark Plug Socket, 13/16"	1	Anti-Seize Compound	AR
Ratchet	1	Torque Wrench, ft. lbs.	1
Plug Gauge, Wire Type	1		

CAUTION

Use care not to over-tighten the plug. Over-tightening can cause damage to the aluminum cylinder head threads.

Remove and inspect the spark plug at intervals indicated in the Periodic Service Schedule. Spark plug should be properly gapped. Tighten to 16 ft. lbs. (22 Nm) torque.

Remove and inspect the spark plug at intervals indicated in the Periodic Service Schedule. Spark plug should be properly gapped. Tighten to 16 ft. lbs. (22 Nm) torque.

A fouled spark plug is indicated by an electrode with a wet, black appearance. A fouled plug can be caused by:

- Dirty air filter element.
- Restrictions in the air intake system.
- Incorrect valve adjustment.
- Spark plug wire in poor condition.
- Poor quality fuel.

BATTERY REMOVAL AND INSTALLATION

Tool List	Qty.	Tool List	Qty.
Insulated Wrench, 1/2"	1	Ratchet	1
Socket, 1/2"	1	Torque Wrench, ft. lbs.	1
Extension, 12"	1		

NOTICE

Hardware that is removed must be installed in its original position unless otherwise specified. If the torque values are not specified, refer to the torque specifications table in the GENERAL INFORMATION AND ROUTINE MAINTENANCE section.

At the battery, remove the negative (-) cable before removing the positive (+) cable. Remove the bolt from the battery hold down and remove the battery.

Installation of the battery is in reverse order of removal.

Connect the positive (+) battery cable first and then connect the negative (-) battery cable.

Be sure to remove all corrosion from the terminals and hardware. After installing the battery, coat terminals with a commercially available terminal protectant.

WARNING

Be careful when you use aerosol containers near battery terminals. Use a metal container that has insulation to prevent an explosion.

MAINTENANCE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

PROLONGED STORAGE

WARNING

Do not handle fuel in an area that is not adequately ventilated. Do not smoke near the fuel tank or refuel near open flame or electrical items, which could produce a spark. Store vehicle in a clean, dry area. Do not store in the same area as a stove, furnace, water heater, or other appliances that use a pilot light or have a device that can create a spark. When refueling, inspect the fuel cap for leaks or breaks that could result in fuel spillage. Always wear safety glasses while refueling to prevent possible eye injury from gasoline or gasoline vapor. Keep hands, clothing and jewelry away from moving parts. Use care not to contact hot objects. Raise the rear of the vehicle and support on jack stands before attempting to run the engine. Preparing the engine for a prolonged storage period (30 days or more), calls for a few simple steps to prevent a buildup of varnish and gum in the carburetor and corrosion in the engine.

- Turn the Key Switch to the OFF position, and leave the Forward/Reverse switch in the NEUTRAL position during storage.
- Perform all required routine maintenance per the Periodic Service Schedule.
- Properly inflate the tires to the recommended pressure (psi) stated on sidewall of tires.
- Place the Forward/Reverse handle in the NEUTRAL position engage the neutral lock.
- Add fuel stabilizer to stabilize fuel and install the tank cap securely (Follow manufacturer's instructions).
- Remove the spark plug and pour 1/2 oz. (15 ml) of SAE 10 - 30 weight oil or fogging oil into the cylinder. Rotate the crankshaft by hand several times, then install the spark plug.
- Do not engage the parking brake, but secure the car from rolling.
- While the engine is still warm, change the oil.
- Clean the body, chassis and engine of debris, mud, chaff or grass.

PERIODIC SERVICE SCHEDULE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

✓ - CHECK C - CHECK & ADJUST C&A - CLEAN CL - REPLACE R

REMARKS	before each use DAILY	WEEKLY	20 rnds/20 hrs 100 miles/160 kms MONTHLY	60 rnds/60 hrs 300 miles/500 kms QUARTERLY	125 rnds/125 hrs 600miles/1000 kms SEMI-ANNUAL	250 rnds/250 hrs 1200miles/2000 kms ANNUAL	5 YEARS
Tires - pressure, condition of tires and rims	✓	✓	✓	✓	✓	✓	
Hardware - loose or missing	✓	✓	✓	✓	✓	✓	
Reverse Warning Indicator	✓	✓	✓	✓	✓	✓	
Overall Vehicle Condition	✓	✓	✓	✓	✓	✓	
Battery - charge condition, loose terminals, corrosion, hold down and hardware	✓	✓	CL	CL	CL	CL	
Brake (Mechanical) - smooth operation	✓	✓	✓	✓	✓	✓	
Brakes - aggressive stop test			C&A	C&A	C&A	C&A	
Parking Brake - operation, does it hold on a hill	✓	✓	C&A	C&A	C&A	C&A	
Accelerator - smooth operation	✓	✓	✓	✓	✓	✓	
Starter/Generator Belt - tension, wear, cracks		✓	✓	✓	✓	✓	
Wiring - loose connections, broken or missing insulation			✓	✓	✓	✓	
Throttle body Linkage - attachment			C&A	C&A	C&A	C&A	
Throttle body						CL	
Direction Selector - attachment and mechanism			C&A	C&A	C&A	C&A	
Cooling Fan - build up of debris on blower housing	CL	CL	CL	CL	CL	CL	
Engine Oil ** - oil level	C&A	C&A	C&A	C&A	C&A	C&A	
Engine Oil ** and Filter - drain and change					R	R	
Engine - noise, vibration, acceleration, oil leaks			C&A	C&A	C&A	C&A	
Valves - check cold - Ref: Repair and Service Manual						C&A	
Cylinder Head and Piston - remove carbon							CL
Choke Cable - smooth movement and adjustment			C&A	C&A	C&A	C&A	
Cooling Fan - buildup of foreign matter inside housing and fins			CL	CL	CL	CL	

**Initial oil change after 50 miles of run time.

NOTE: Some maintenance items must be serviced more frequently on vehicles used under severe driving conditions.

PERIODIC SERVICE SCHEDULE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

REMARKS	before each use DAILY	WEEKLY	20 rnds/20 hrs 100 miles/160 kms MONTHLY	60 rnds/60 hrs 300 miles/500 kms QUARTERLY	125 rnds/125 hrs 600miles/1000 kms SEMI-ANNUAL	250 rnds/250 hrs 1200miles/2000 kms ANNUAL	5 YEARS
Steering Assembly - excessive play, loose or missing hardware			✓	✓	✓	✓	
Tie Rods - excessive play, bent rods, loose or missing hardware			✓	✓	✓	✓	
Rear Axle - fluid level, oil leakage, noise, loose or missing hardware			✓	✓	✓	✓	
Rear Axle - replace fluid							R
Rear Suspension - shock oil leakage, worn bushings, loose or missing hardware				✓	✓	✓	
Front Suspension - strut oil leakage, excessive play in hubs or kingpins, worn bushings, loose or missing hardware			✓	✓	✓	✓	
Front Wheel Alignment - unusual tire wear				C&A	C&A	C&A	
Fuel Level	✓	✓	✓	✓	✓	✓	
Fuel System - leaks at tank, cap, system lines for cracks/deterioration, filters, pump				✓	✓	✓	
Fuel Filter						R	
Spark Plug						R	
Throttle/Governor Linkage - operation and governed speed				✓	✓	✓	
Air Filter Element - check and replace as necessary					✓	✓	
Drive Belt - cracks, frayed, excessive wear					✓	✓	

****Initial oil change after 50 miles of run time.**

NOTE: Some maintenance items must be serviced more frequently on vehicles used under severe driving conditions.

PERIODIC SERVICE SCHEDULE

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Notes:

A large grid area for taking notes, consisting of approximately 20 columns and 30 rows of small squares.

SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Reporting Safety Defects in the US

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 Safety Administration (NHTSA) in addition to notifying ICON Electric Vehicles.

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 individual problems between you, your dealer, or ICON Electric Vehicles.**

To contact NHTSA, you may call the vehicle safety hotline toll-free at 1-888-327-4236 (TTY:1-800-424-9153): go to www.safercar.gov; or write to:

Administrator
1200 New Jersey Avenue
Southeast, Washington DC 20590

You can also obtain other information about motor vehicle safety from www.safercar.gov.

Reporting Safety Defects in Canada

If you believe that your vehicle has a defect which could cause a crash, or could cause injury, or death, you should immediately inform Transport Canada and ICON of Canada.

SAFETY

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

Notice

ICON Electric Vehicles, LLC. is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

Your vehicle conforms to all applicable Federal Motor Vehicle Safety Standards in effect on the date of manufacture.

Thank you for choosing ICON Electric Vehicles, LLC. Please protect your investment and ensure that your ICON vehicle provides years of reliable, superior performance by reading and following the maintenance instructions in this manual.

Your comfort and safety are important to us as well, so we urge you to read and follow the step-by-step operating instructions and safety precautions in this manual. These instructions must be followed in order to avoid the risk of severe personal injury. If you rent or loan your vehicle to others, we recommend that you ask them to read this manual before they operate the vehicle.

ICON products are backed by a customer support system designed to offer you fast, courteous service. In the event that your vehicle needs repairs or service, please contact ICON Electric Vehicles, LLC. We will be able to provide technical advice, perform warranty work, and sell parts and service manuals. For the name and address of the ICON dealer or distributor nearest you, call 1-866-426-6380.

We hope you will consider this owner's manual a permanent part of your vehicle. If you sell the vehicle, please include the manual so that the next owner will have the important operating, safety, and maintenance information it contains.

Read all of SAFETY and this section before attempting any procedure. Pay particular attention to Notices, Cautions, Warnings and Dangers.

NOTICE

Read the following the warnings before you operate the vehicle:

⚠ WARNING

When you leave the vehicle, turn the key to the OFF position and remove the key from the vehicle.

Drive the vehicle only as fast as terrain and conditions allow. Consider the terrain and traffic conditions. Consider environmental conditions that change the terrain and your ability to control the vehicle.

Do not drive fast downhill. Sudden stops or change of direction can cause a loss of control. Use the brake to control the speed of the vehicle when you drive down a slope. When possible, stay in approved areas and do not drive on steep slopes. Always keep feet, legs, hands and arms inside vehicle. Do not drive on rough terrain. Before you drive in the reverse direction, make sure the area behind the vehicle is clear. Make sure the direction selector is in the correct position before you press the accelerator pedal. Decrease speed before and during turns. Make sure you completely stop the vehicle before you move the direction selector. See GENERAL SPECIFICATIONS for the vehicle load and seat capacity.

NOTICE

Read the following information and warnings before you operate the vehicle: In any product, components will eventually fail to perform properly as the result of normal use, age, wear or abuse.

Normal use, age, wear or abuse can cause some components on the vehicle to fail. The manufacturer can not know all possible component failures or the methods that failures can occur. A vehicle in need of repair does not operate correctly and can be dangerous.

Be careful when you service the vehicle. Be aware of your safety and the safety of other people in the area.

Some components are heavy, spring loaded, corrosive, explosive, can cause high amperage or get hot. Battery acid and hydrogen gas can cause injury. Do not put your hands, face, feet or body in a location that can expose them to injury if an unexpected situation occurs.

Always use the correct tools shown in the tool list and wear safety equipment.

⚠ WARNING

Remove all jewelry before you service the vehicle.

Do not allow loose clothing or hair to contact the moving parts.
Do not touch hot objects.

The drive wheels must be lifted and supported on jack stands before you do any service to the powertrain when the motor is in operation.

When you service the vehicle, always wear eye protection. Be careful when you do work around batteries or you use solvents or compressed air.



Use wrenches with insulation to decrease the risk of a short-circuit if a wrench falls across the battery terminals. A battery short-circuit can cause an explosion. To prevent the risk of battery explosion, keep all flammable materials, open flames or sparks away from the batteries. Hydrogen gas is made as batteries are charged. Do not charge batteries without good ventilation.

ICON

GAS VEHICLES

ICON GOLF CARTS
4406 Madison Industrial
Ln. Tampa, FL 33619
(866) 426-6380
SALES@ICONEV.COM

