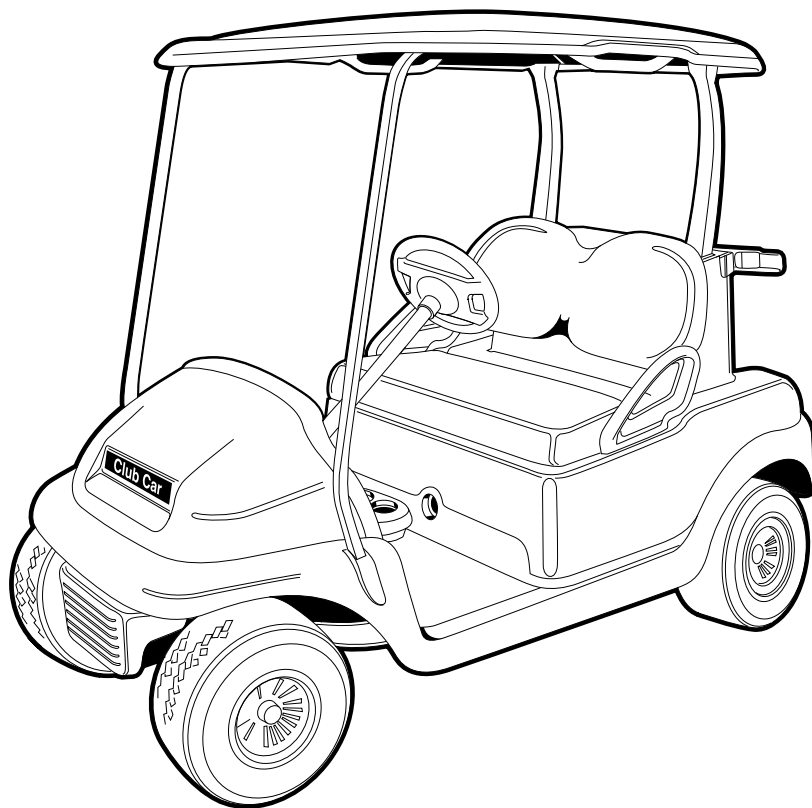




# Precedent Golf Car Owner's Manual (Converted Gasoline)

[Refer to back cover for applicable build code range]





## NOTICE

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This manual is valid for vehicles manufactured in the build code range provided on the back cover of this manual. If the vehicle build code is different from that shown on the back cover of this manual, please contact your nearest dealer or go to [www.clubcar.com](http://www.clubcar.com) to retrieve the proper owner's manual for the vehicle. See also Model Identification in this manual.

Warranty information appears at the end of this manual. No other warranties, expressed or implied, are contained herein. Your authorized representative checked the vehicle before it was delivered to you and will provide you a copy of the completed vehicle warranty registration form.

Club Car 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.

This vehicle conforms to the current American National Standards Institute's Z130 Safety and Performance Requirements for Golf Cars. This standard, which promotes safety in the design, application, and operation of golf cars, defines a golf car as "a vehicle used to convey a person or persons and equipment to play the game of golf in an area designated as a golf course." Throughout this manual, the words "golf car" and "vehicle" are used interchangeably.

This manual contains proprietary information that is protected by copyright. All rights are reserved. No part of this manual may be photocopied, reproduced, or translated to another language without the written consent of Club Car, LLC

The information contained in this document is subject to change without notice.

Club Car reserves the right to make design changes to vehicles without obligation to make these changes on units previously sold.

These vehicles do not conform to Federal Motor Vehicle Safety Standards for automobiles or to FMVSS 500 for low-speed vehicles, and are not equipped for operation on public streets, roads, or highways.

If in English, this manual is the Original Instructions provided by the manufacturer. If in any language other than English, this manual is a translation of the Original Instructions.



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This manual effective September 1, 2010

## FOREWORD

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Thank you for choosing Club Car, the name most widely recognized as the industry leader in vehicle efficiency and long-lasting value. You have chosen the finest golf car on the market. Please protect your investment and ensure that your Club Car 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.

Club Car products are backed by a customer support system designed to offer you fast, courteous service. In the event that your golf car needs repairs or service, please contact your local authorized Club Car dealer or distributor, who will be able to provide technical advice, perform warranty work, and sell parts and service manuals. For the name and address of the authorized Club Car dealer or distributor nearest you, logon to our web site at [www.clubcar.com](http://www.clubcar.com) or call 1-800-ClubCar (258-2227). If you would prefer to write to us, direct your letter to: Club Car, Attention: Marketing Services, P.O. Box 204658, Augusta, Georgia 30917-4658 USA.

We hope you will consider this owner's manual a permanent part of your golf car. 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.

REGULAR MAINTENANCE ITEMS	PERIODIC MAINTENANCE ITEMS
<b>Engine Oil Filter</b> CC P/N 1016467	<b>Fuse, 0.5 Amp, Brake Light Circuit (if equipped)</b> Fuse under Floormat beneath Floor Cover Plate CC P/N AM1214301
<b>Engine Air Filter</b> CC P/N 1015426	<b>Spark Plug O.H.V.</b> CC P/N 101881101
<b>Engine Fuel Filter</b> CC P/N 102003201	<b>Spring Tune-Up Kit</b> CC P/N 101611003
<b>Battery Terminal Protector Spray</b> CC P/N 1014305	<b>Fuse, 10 Amp, Starting Circuit (gasoline vehicle)</b> Fuse under Seat near Solenoid CC P/N 1012295
<b>Dry Moly Lube</b> CC P/N 1012151	<b>Fuse, 10 Amp, Headlight Circuit (if equipped)</b> Fuse under Seat beneath Electronics Module Cover CC P/N 1012295

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## **SAFETY DECAL AND FEATURE IDENTIFICATION**

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The following pages contain safety decal and feature identification information. For detailed information on specific features, read the appropriate section in this manual.

**GASOLINE PRECEDENT**

OFF | ON

**OPERATING INSTRUCTIONS**

- Read owner's manual and safety warnings located on dash panel prior to driving.
- Study and understand controls.

**TO OPERATE**

- Turn wheels to desired direction and ensure path is clear.
- Turn key to ON position.
- While stopped, place shift lever in desired position:  
F—Forward N—Neutral R—Reverse (Buzzer will sound)
- Park brake will release and vehicle will start moving when accelerator pedal is pressed.
- Slowly press accelerator pedal to increase speed.
- To stop, release accelerator pedal and press brake pedal.

**BEFORE LEAVING**

- Press park brake pedal until it locks and holds vehicle.
- Place Forward/Reverse switch in NEUTRAL position.
- Turn key OFF and remove key when not in use.

CCI 102519301

**OPERATING INSTRUCTIONS**

Before using vehicle, read owner's manual and vehicle safety warnings. Study and understand controls.

**TO OPERATE**

- Ensure wheels are turned in desired direction and path is clear.
- Turn key to ON position.
- Select FORWARD or REVERSE only when stopped.
- Release park brake fully.
- Vehicle will start moving when accelerator pedal is pressed.
- Slowly press accelerator pedal to increase speed.
- To stop, release accelerator pedal and press brake pedal.

**WARNING**

Unintended vehicle movement may cause severe injury or death. Before leaving vehicle:

- Engage park brake to lock wheels.
- Place vehicle in NEUTRAL.
- Turn key to OFF and remove key.

103783002

**⚠ WARNING**

**ROLLOVER OR FALLING OFF MAY CAUSE SERIOUS INJURY OR DEATH.**

- Before using vehicle, read operating instructions.
- Do not start vehicle until all occupants are seated.
- Keep entire body inside vehicle while moving.
- Drive slowly in turns and straight up and down slopes.
- Use brakes to reduce speed when coasting downhill.
- Never operate under the influence of alcohol or drugs.
- For use by authorized persons in designated areas only.

- Remain seated while moving.
- Operate from driver side only.
- Never operate on public roads.
- Hold on to seat handle while moving.
- Two (2) persons per seat maximum.
- Never stand in front of or behind vehicle.
- Do not leave children unattended on vehicle.

CCI 102519301

2012

1	101825101	Decal, On/Off Key Switch (above key switch)	5		Low Oil Warning Light
2	102519201	Decal, Operating Instructions (on steering wheel)	6		Accelerator Pedal
3	102519301	Decal, Rollover Warning (on instrument panel)	7		Brake Pedal
4	103783002	Decal, Operating Instructions (on steering wheel)	8		Park Brake Pedal

## GASOLINE PRECEDENT

**⚠ WARNING**  
**BATTERY EXPLOSION / FIRE CAN CAUSE SEVERE INJURY**

- Do not contact positive (+) battery post or cable to frame.
- Disconnect negative (-) cable first.
- Negative (-) frame ground.

CCI 102517901

**⚠ WARNING**  
**CAN CAUSE SEVERE INJURY**

**Rotating parts**

**HOT manifold & muffler**

**KEEP CLEAR**

CCI 101960501

**⚠ WARNING**

**GASOLINE EXPLOSION / FIRE CAN CAUSE SEVERE INJURY OR DEATH**

- No sparks or open flame near fuel or fuel tank.
- No smoking near fuel or fuel tank.
- Stop engine and allow to cool before refueling.
- Turn fuel valve (←) on during operation.
- Turn fuel valve (→) off during storage or transport.

**EXCESSIVE SPEED CAN CAUSE SEVERE INJURY OR DEATH**

- Do not tamper with engine governor adjustment.

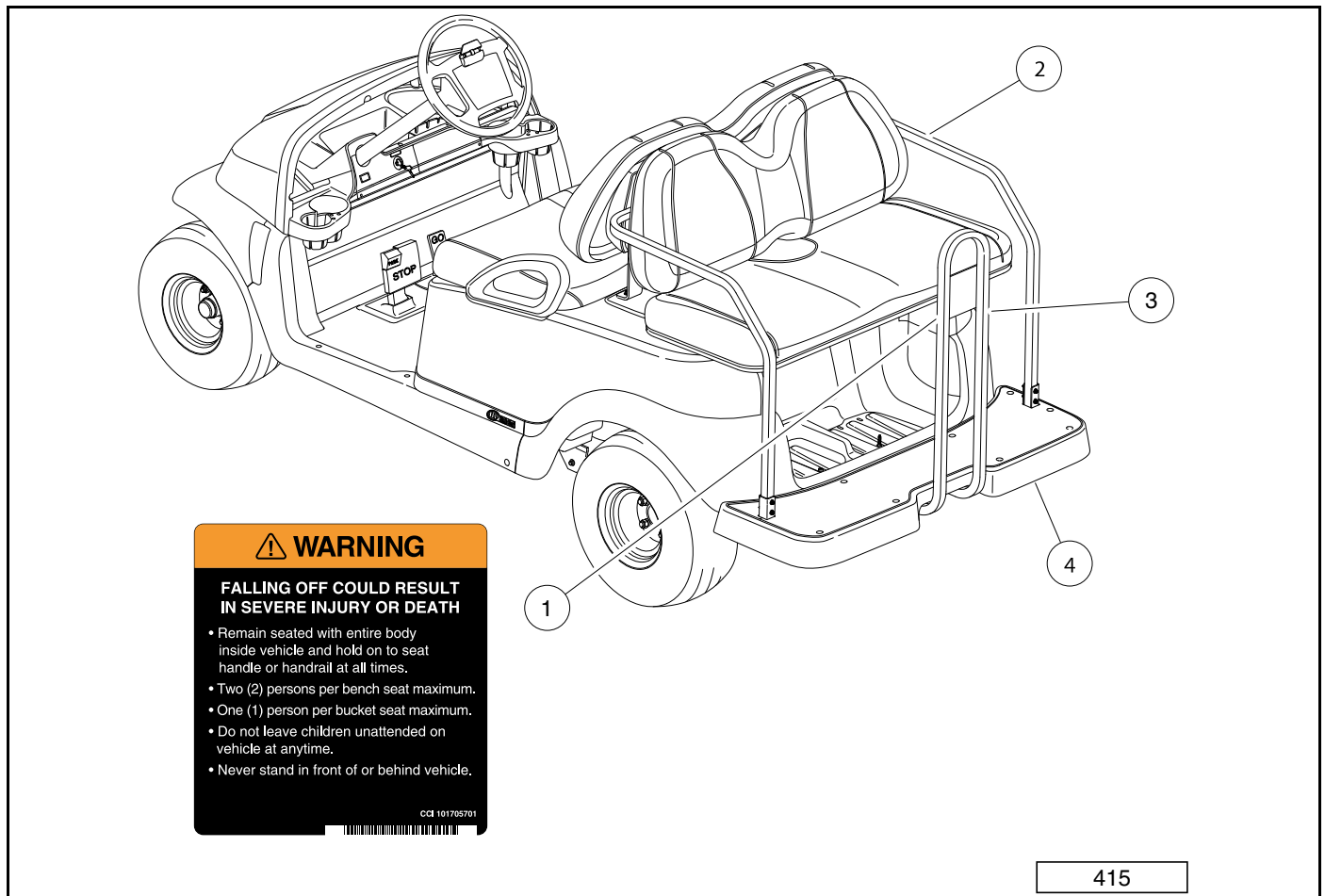
CCI 102517801

295

1	101960501	Decal, Rotating Parts/Hot Manifold Warning (on engine, starter/generator, and transaxle)	4	Choke
2	102517801	Decal, Gas/Governor Warning (on fuel tank hold-down bracket)	5	Forward/Reverse Control
3	102517901	Decal, Frame Ground Warning (on vehicle frame, under seat)		



**PRECEDENT VILLAGER 4**



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1	101705701	Decal, Falling Off Warning (on rear-facing seat hand rail and/or on back side of forward-facing seat backs)	4		Foot rest
2		Hand hold			
3		Hand rail			

## PRACTICE SAFETY

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Figure 1 Practice Safety

Safety signs like you see above may at first seem shocking, but their impact is mild compared with the reality of severe personal injury.

Your safety and satisfaction are of the utmost importance to us. That is why before operating the vehicle, we urge you to review the information in this manual. Understand and become familiar with the DANGER, WARNING, and CAUTION statements and procedures it contains, along with the safety decals that are affixed to your vehicle.

Take time to understand the language of safety. It is a language that can save your life.

## PROPOSITION 65 – STATE OF CALIFORNIA

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### **▲ WARNING**

- This product contains or emits chemicals or substances that have been determined by the state of California to cause cancer and birth defects or other reproductive harm.

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## SAFETY DETAILS

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### **WARNING**

- **This owner's manual should be read completely before attempting to drive or service the vehicle. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.**

It is important to note that some vital statements throughout this manual and on the decals affixed to the vehicle are preceded by the words DANGER, WARNING, or CAUTION. For your protection, we recommend that you take special notice of these safety precautions. Safety precautions are essential and must be followed.

Throughout this manual and on the operation and safety decals affixed to the vehicle, the words "golf car" and "vehicle" are used interchangeably. "Golf car" is defined in the Notice of this manual and no other representation is stated or implied.

If any of the operation or safety decals on the vehicle become damaged, have been removed or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. Contact your distributor/dealer.

### **DANGER**

- **A DANGER indicates an immediate hazard that will result in severe personal injury or death.**

### **WARNING**

- **A WARNING indicates an immediate hazard that could result in severe personal injury or death.**

### **CAUTION**

- **A CAUTION with the safety alert symbol indicates a hazard or unsafe practice that could result in minor personal injury.**

### **CAUTION**

- **A CAUTION without the safety alert symbol indicates a potentially hazardous situation that could result in property damage.**

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## GENERAL WARNINGS

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The following safety statements must be heeded whenever the vehicle is being operated, repaired, or serviced. Vehicle feature identification information is also included. **See Safety Decal and Feature Identification on page 4.** Other specific safety statements appear throughout this manual and on the vehicle.

### **DANGER**

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**

DANGER CONTINUED ON NEXT PAGE

## **DANGER**

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- Gasoline – Flammable! Explosive! Do not smoke. Keep sparks and flames away from the vehicle and service area. Service only in a well-ventilated area.
- Do not operate engine in an enclosed area without proper ventilation. The engine produces carbon monoxide, which is an odorless, deadly poison.
- The vehicle will not provide protection from lightning, flying objects, or other storm-related hazards. If caught in a storm while driving a Club Car vehicle, exit the vehicle and seek shelter in accordance with applicable safety guidelines for your location.

## **WARNING**

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- Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual as well as those on the vehicle and battery charger.
- Do not leave children unattended on vehicle.
- Prior to leaving the vehicle unattended or servicing the vehicle, set the park brake, place the Forward/Reverse handle or switch in the NEUTRAL position, turn the key switch to the OFF position, and remove the key. Chock the wheels when servicing the vehicle.
- Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance, severe personal injury, or death.
- Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.
- Check the vehicle for proper location of all vehicle safety and operation decals and make sure they are in place and are easy to read. See Safety Decal and Feature Identification on page 4.
- Only trained technicians should service or repair the vehicle or battery charger. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.
- Wear safety glasses or approved eye protection when servicing the vehicle or battery charger. Wear a full face shield and rubber gloves when working on or near batteries.
- Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle or battery charger.
- Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.

### Gasoline vehicles only:

- To avoid unintentionally starting a gasoline vehicle, disconnect the battery and spark plug wire. See Disconnecting the Battery – Gasoline Vehicles on page 11.
- Frame ground – Do not allow tools or other metal objects to contact frame when disconnecting battery cables or other electrical wiring. Do not allow a positive wire to touch the vehicle frame, engine, or any other metal component.

## **DISABLING THE VEHICLE**

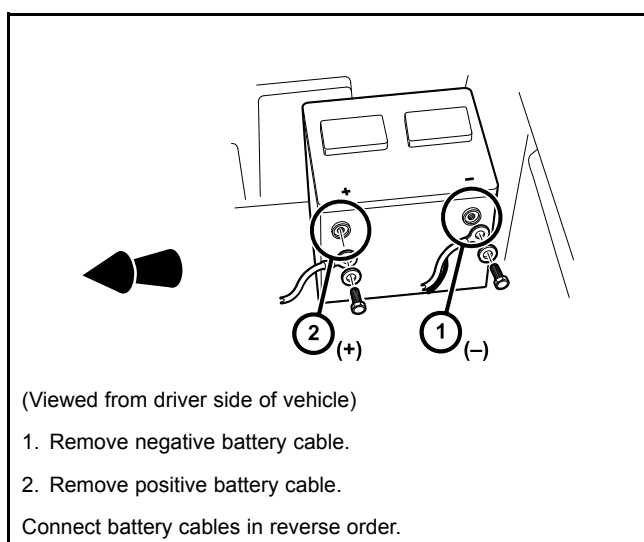
1. Set the park brake.
2. Turn the key switch OFF and remove the key.
3. Place the Forward/Reverse control in the NEUTRAL position.
4. In addition, chock the wheels if servicing or repairing the vehicle.

## DISCONNECTING THE BATTERY – GASOLINE VEHICLES

1. Disable the vehicle. **See Disabling the Vehicle on page 10.**
2. Disconnect the battery cables, negative (–) cable first, as shown (**Figure 2**).
3. Disconnect the spark plug wire(s) from the spark plug(s).

## CONNECTING THE BATTERY – GASOLINE VEHICLES

1. Connect the battery cables, positive (+) cable first.
2. Tighten battery terminals to 80 in-lb (9 N·m).
3. Coat terminals with Battery Terminal Protector Spray (CC P/N 1014305) to minimize corrosion.
4. Connect the spark plug wire(s) to the spark plug(s).



50

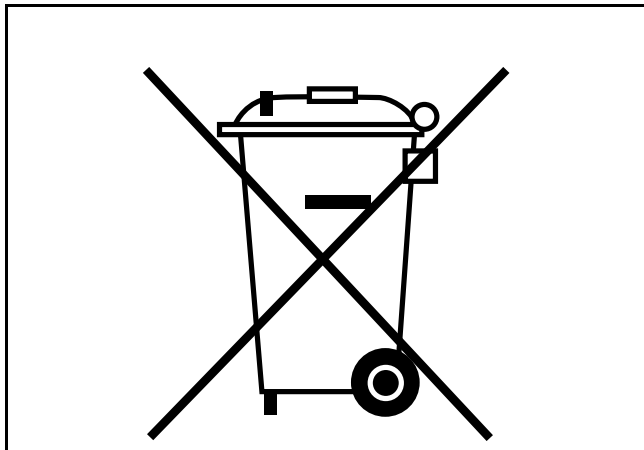
**Figure 2 Battery Cable Removal – Gasoline**

## RECYCLING LEAD-ACID BATTERIES

### **⚠ WARNING**

- **Lead-acid batteries contain lead (Pb), other metals, acids and other compounds. If improperly handled, they can contaminate both water and soil, causing environmental damage and personal injury.**

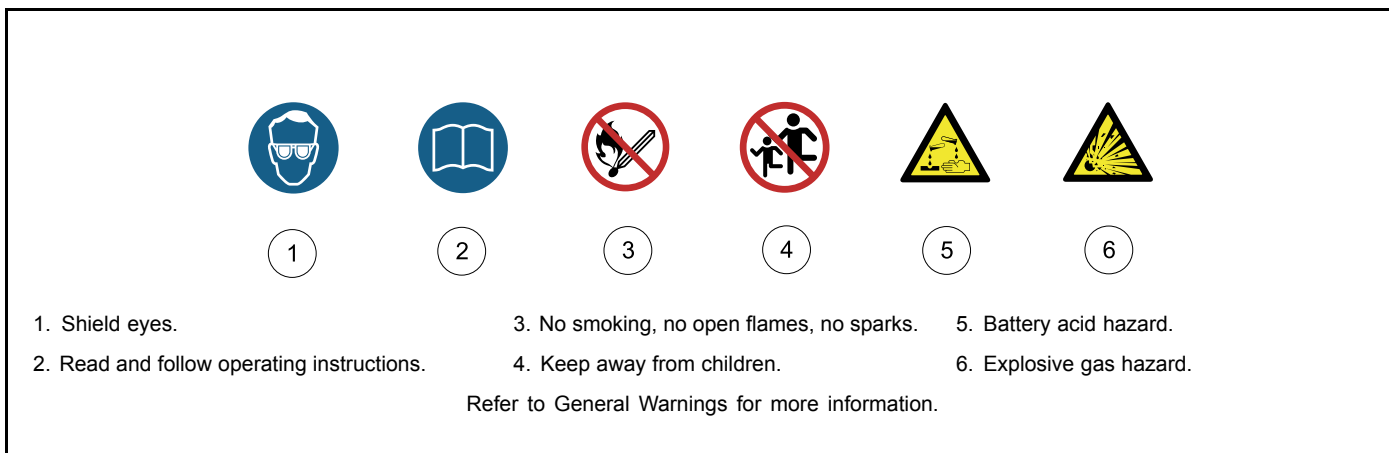
Lead-acid batteries are identified by the symbol shown below and should be properly recycled (**Figure 3**). They cannot be disposed as municipal waste and must be collected separately. Responsibility for environmental protection must be shared, not only by the manufacturers of the batteries, but by people who use the batteries as well. Please contact your nearest Club Car dealer or distributor for information on how to properly recycle your batteries.



<sup>1403</sup> **Figure 3 Dispose of Lead-acid Batteries Properly**

## INTERNATIONAL SAFETY SYMBOLS ON BATTERIES

Anyone using, repairing, or servicing the vehicle must understand and heed the safety symbols on the vehicle battery or batteries.



<sup>1642</sup> **Figure 4 International Safety Symbols on Batteries**

## GENERAL INFORMATION

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These Precedent Golf Cars are available only with gasoline power. Throughout this manual, important features unique to each model are highlighted. We urge the owner/operator to read and understand this manual, and to pay special attention to the features specific to his/her vehicle(s).

## MODEL IDENTIFICATION

The serial number of each vehicle is printed on a bar code decal mounted either below the passenger side cup holder or above the accelerator or brake pedal (Example: PH0901-583947) **(Figure 5)**.

The two letters (1) at the beginning of the serial number indicate the vehicle model. The following four digits (2) indicate the model year and production week during which the vehicle was built. The six digits (3) following the hyphen represent the unique sequential number assigned to each vehicle built within a given model year. **See following NOTE.**

**NOTE:** Have the vehicle serial number available when ordering parts or making inquiries.

**Build Code:** The build code (4) is a five-digit number that appears on the vehicle serial number decal. The build code exists to enable the user to identify the correct owner's manual for a vehicle. This owner's manual is valid for the build code range indicated on the back cover of this owner's manual.



1400

**Figure 5 Serial Number Decal**

## SAFETY COMMITTEE

If the golf car is to be rented or is part of a fleet, we strongly recommend that a safety committee be appointed. One of the main concerns of this committee should be the safe operation of the golf cars. This should include at a minimum:

- Where golf cars should be driven.
- Ensuring that proper warnings of driving hazards are displayed and visible.
- Who should and who should not drive golf cars.
- Instructing first time drivers.
- Maintaining golf cars in a safe driving condition.
- How various rules are to be enforced.

The safety committee should include all these items and such others as the committee feels necessary or appropriate.

## CONTROLS AND INDICATORS – GASOLINE VEHICLES

See General Warnings on page 9.

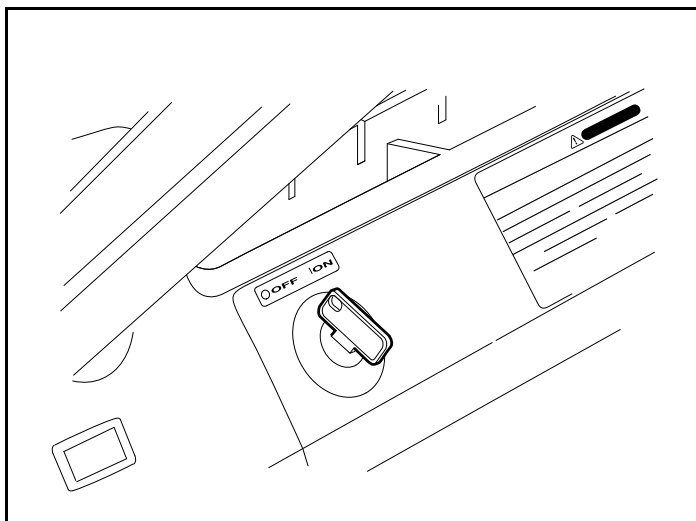
### **⚠ WARNING**

- If renting or loaning the vehicle, make sure the driver is familiar with all controls and operating procedures before allowing the vehicle to be driven.
- Do not shift the Forward/Reverse handle while the vehicle is moving. To avoid injury to an unsuspecting passenger or damage to the vehicle, always bring the vehicle to a full stop before shifting the Forward/Reverse handle.
- Release the accelerator pedal and then press the brake pedal firmly until the vehicle stops. To avoid unintentionally starting or rolling the vehicle, set the park brake, place the Forward/Reverse handle in the NEUTRAL position, turn the key switch to the OFF position, and remove the key.
- Do not tamper with the governor. Doing so will void the warranty, as well as damage the engine and other components, and could result in property damage, personal injury, or death due to unsafe speed.

### KEY SWITCH

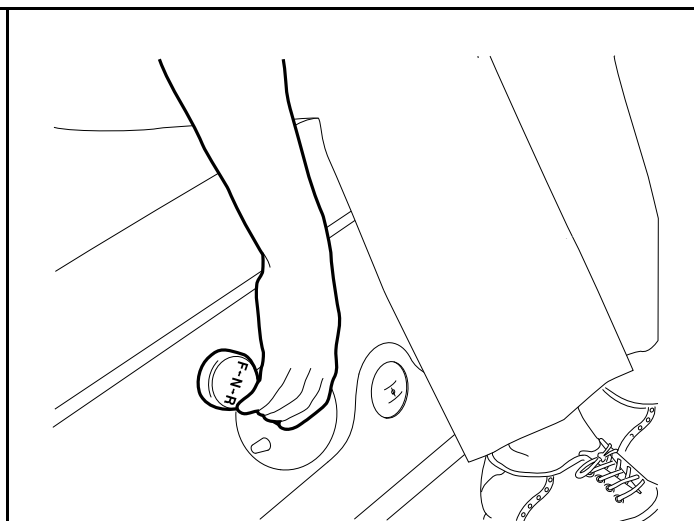
The key switch is mounted on the dash to the right of the steering column (**Figure 6**). It has two positions, OFF and ON, which are clearly labeled. See following **NOTE**.

**NOTE:** The key can be removed only when the key switch is in the OFF position.



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Figure 6 Key Switch



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Figure 7 Forward/Reverse Handle

### FORWARD/REVERSE CONTROL

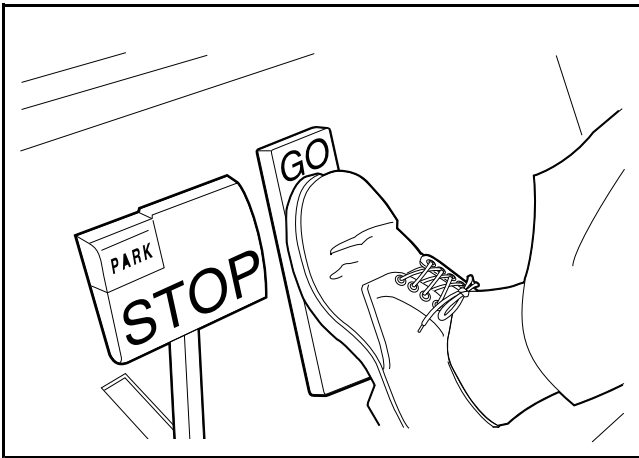
The Forward/Reverse handle is located on the seat support panel, below and to the right of the driver's right knee (**Figure 7**). The handle has three distinct positions: F (FORWARD), N (NEUTRAL), and R (REVERSE). Rotate the handle towards the driver (FORWARD) to operate the vehicle in the forward direction, or towards the passenger (REVERSE) to operate the vehicle in reverse. When the handle is in the straight up position, (NEUTRAL), the vehicle will not operate. The engine will stop if it is shifted to this position during operation. Club Car vehicles operate at



reduced speed in reverse. The reverse buzzer will sound as a warning when the Forward/Reverse handle is in the REVERSE position.

## ACCELERATOR PEDAL

The accelerator pedal is the pedal on the right, with the word GO molded into it (**Figure 8**). The operation of the accelerator pedal differs from that of an automobile. When the key switch is in the ON position, and the Forward/Reverse handle is in either the FORWARD or REVERSE position, pressing the accelerator pedal will automatically release the park brake and start the vehicle moving in the direction selected (forward or reverse). As the accelerator pedal is pressed, speed will increase until full speed is reached. When the accelerator is released, power will be cut off and the motor will stop running.

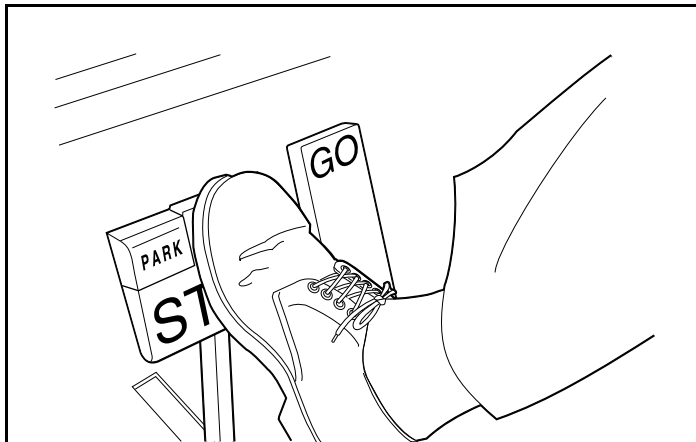


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**Figure 8 Accelerator Pedal**

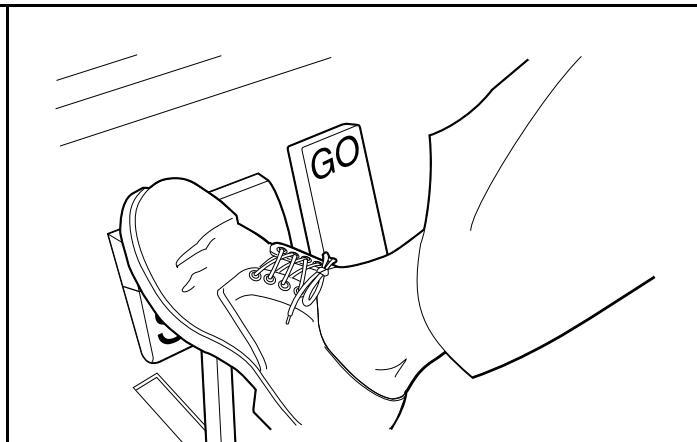
## BRAKE PEDAL

The brake pedal is the large pedal on the left with the word STOP molded into it. To slow or stop the vehicle, press the brake pedal with your foot (**Figure 9**).



78

Figure 9 Brake Pedal



79

Figure 10 Park Brake Pedal

## PARK BRAKE PEDAL

The park brake pedal is the small raised portion in the upper left corner of the brake pedal. It has the word PARK molded into it. To set the park brake, press the brake pedal firmly and tilt the park brake portion of the pedal forward with your foot (**Figure 10**). See following **WARNING** and **NOTE**.

### **▲ WARNING**

- The park brake will release automatically when either the accelerator or brake pedal is pressed. The park brake has multiple locking positions and should be firmly pressed and locked to prevent the vehicle from rolling.

**NOTE: Vehicles equipped with lights:** After the park brake is engaged, the brake lights will remain illuminated for up to four minutes.

## NEUTRAL LOCKOUT

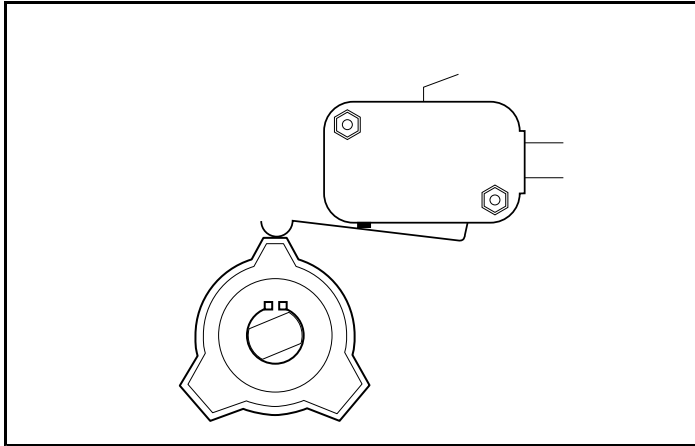
For the convenience of the trained technician, there is a neutral lockout cam located on the back of the Forward/Reverse shifter. If the neutral lockout cam is pulled out approximately 3/8 inch (10 mm) and then rotated one-half turn until it snaps into place, the cam will be in the MAINTENANCE position (**Figure 11**). This will allow the technician to operate the engine in neutral for certain maintenance procedures. With the cam in this position, the vehicle will not operate if the Forward/Reverse handle is placed in either the FORWARD or REVERSE position.

To put the cam back into the OPERATE position, pull the cam out approximately 3/8 inch (10 mm) and rotate it one-half turn until it snaps into place (**Figure 12**). See following **WARNING** and **NOTE**.

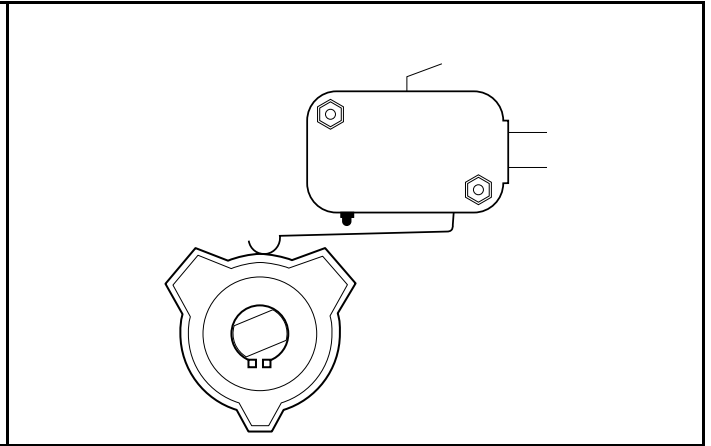
### **▲ WARNING**

- With the cam in the MAINTENANCE position and the engine running, the vehicle may move suddenly if the Forward/Reverse handle is shifted or accidentally bumped. To prevent this, chock the front and rear wheels and firmly set the park brake before servicing or leaving the vehicle.

**NOTE:** Be sure to return the cam to the OPERATE position after servicing the vehicle, or it will not operate with the Forward/Reverse handle in either the FORWARD or REVERSE position.



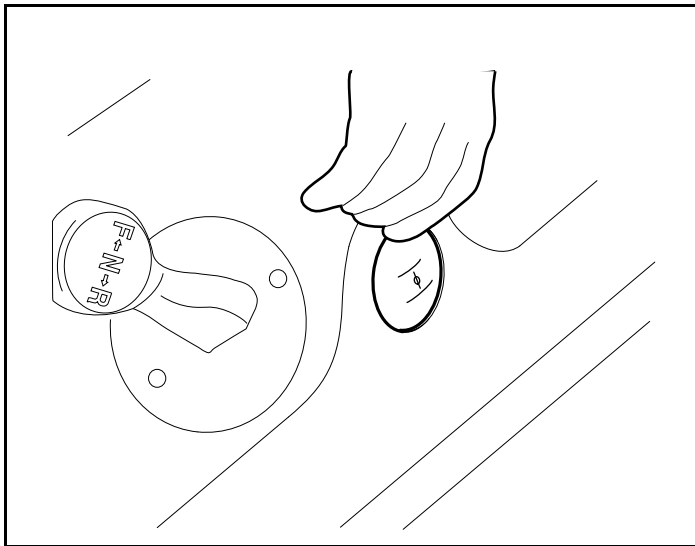
60 **Figure 11 Neutral Lockout – Maintenance Position**



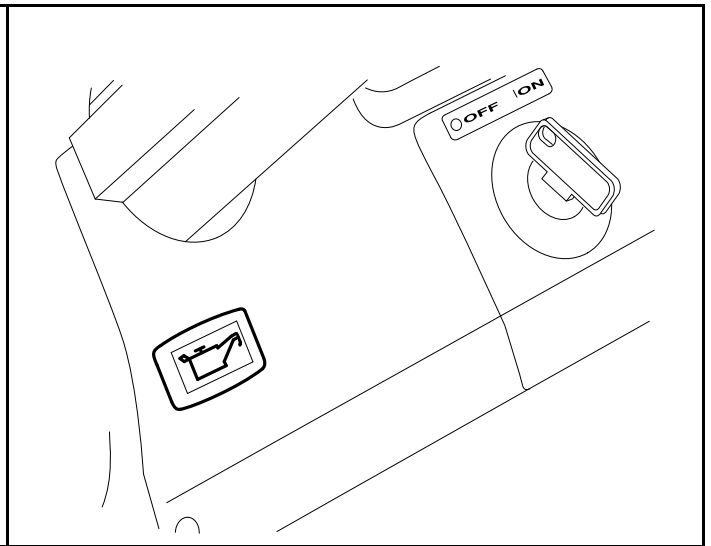
61 **Figure 12 Neutral Lockout – Operate Position**

## CHOKE

The choke is located on the seat support panel below and to the right of the driver's right knee (**Figure 13**). If the vehicle is hard to start in cool or cold temperatures, simply push in the choke cover to activate it. Hold it during start up and release the choke cover after the engine starts and runs smoothly.



62 **Figure 13 Choke**



63 **Figure 14 Low Oil Warning Light**

## LOW OIL WARNING LIGHT

The gasoline golf car is equipped with a low oil warning light, located on the dash panel just below the steering column (**Figure 14**). If the warning light comes on, oil should be checked and added to the engine as necessary before

continuing to use the vehicle. The vehicle should never be driven with the low oil warning light remaining on. If the warning light goes on and off, you may proceed, but oil should be added at the first opportunity. If the oil level is correct and the warning light stays on, have a trained technician check the vehicle. **See following CAUTION.**

## **CAUTION**

- **Failure to add oil immediately when the low oil warning light stays on may result in permanent engine damage.**

## **PRE-OPERATION AND DAILY SAFETY CHECKLIST**

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Each Club Car vehicle has been thoroughly inspected and adjusted at the factory; however, upon receiving your new vehicle(s), you should become familiar with its controls, indicators, and operation. Carefully inspect each vehicle to ensure that it is in proper working condition before accepting delivery.

Use the following checklist as a guide to inspect the vehicle. This checklist should be used daily to ensure that the vehicle is in proper working condition and in conjunction with the Performance Inspection on page 18, and the Periodic Service Schedule on page 25. Any problems should be corrected by a Club Car distributor/dealer or a trained technician.

Any vehicle not functioning correctly should be removed from use until it is properly repaired. This will prevent further damage to the vehicle and avoid the possibility of injury due to unsafe conditions.

- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts, and screws are tight.
- **Safety and information decals:** Check to ensure that all safety and information decals are in place. **See Safety Decal and Feature Identification on page 4.**
- **Tires:** Check for proper tire pressure. Visually inspect tires for wear, damage, and proper inflation on a daily basis. **See Vehicle Specifications on page 36.**
- **Performance Inspection:** Inspect as instructed. **See Performance Inspection on page 18.**
- **Battery:** Check electrolyte to ensure it is at the proper level (**Figure 19, Page 30**). Check battery posts. Wires should be tight and free of corrosion and battery should be fully charged.
- **Engine:** Check for proper engine oil level. **See Engine Oil – Gasoline Vehicles on page 30.**
- **Fuel:** Check fuel level. **See Fueling Instructions – Gasoline Vehicles on page 33.** Check fuel tank, lines, cap, pump, fuel filters, and carburetor for fuel leakage.
- **Exhaust system:** Check for leaks.

## **⚠ WARNING**

- **Be sure the plastic has been removed from the seat bottom before operating the vehicle. Failure to do so may result in a fire, property damage, personal injury, or death.**

## **PERFORMANCE INSPECTION**

After you have familiarized yourself with the vehicle controls and have read and understood the driving instructions, take the vehicle for a test drive.

Use the following checklist in conjunction with the Daily Pre-Operation and Safety Checklist as a guide to inspect the vehicle and check daily for proper operation. Any problems should be corrected by a Club Car distributor/dealer or a trained technician.

- **Forward/Reverse switch:** Check for proper operation. **See Controls and Indicators – Gasoline Vehicles on page 14.**
- **Brakes:** 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.
- **Park brake:** When latched, the park brake should lock the wheels and hold the vehicle stationary (on an incline of 20% or less). It should release when either the accelerator or brake pedal is pressed.
- **Reverse buzzer:** The reverse buzzer will sound as a warning when the Forward/Reverse handle or switch is in the REVERSE position.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel.
- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle's ride and performance. Have a Club Car distributor/dealer or a trained technician investigate anything unusual.
- **Accelerator:** With the key switch in the ON position and the Forward/Reverse switch in the FORWARD position, as the accelerator pedal is pressed, the engine should start and the vehicle should accelerate smoothly to full speed. When the pedal is released it should return to the original position. All Club Car vehicles operate at reduced speed in reverse.
- **Governor:** Check maximum speed of the vehicle. The vehicle should operate at 12-15 mph (19-24 km/h) on a level surface.

## DRIVING INSTRUCTIONS

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### **WARNING**

- Only licensed drivers should be allowed to drive the vehicle.
- If renting or loaning the vehicle, make sure the driver is familiar with all controls and operating procedures before allowing the vehicle to be driven.
- No more than two persons per bench seat should be on the vehicle at one time. Do not allow passenger to ride in the bag well.
- The vehicle is not specially equipped for handicapped persons:
  - Be sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle.
  - Be sure all passengers are capable of securing themselves in a vehicle before allowing them to ride in one.
- For night use, the vehicle must be equipped with headlights and taillights.
- Stop the vehicle before shifting the Forward/Reverse switch. Failure to do so may result in injury to an unsuspecting passenger and (or) damage to the vehicle.
- To help avoid being struck, do not stand in front of or behind the vehicle.
- Operate the vehicle from the driver seat only.
- To help prevent falls from the vehicle, remain seated in a moving vehicle and hold on to hand holds or handrails at all times. Driver should keep both hands on the steering wheel when the vehicle is in motion.
- To help prevent the possibility of serious injury, keep your entire body inside the vehicle.
- Do not leave children unattended on vehicle.

WARNING CONTINUED ON NEXT PAGE

## **WARNING**

- To help prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 20% incline.
- To help avoid possible injury to an inattentive passenger and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.
- To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet grass or rough terrain.
- Do not use the vehicle on public roads. It is not designed or intended for street use and should not be licensed for use on public roads.
- Obey all local rules concerning golf cars.
- The vehicle should be driven in only specified areas by trained drivers.
- Do not drive while under the influence of alcohol, drugs, or medications.
- To prevent overturning the vehicle, drive slowly in turns.
- Use brakes to reduce speed when coasting downhill.
- This vehicle is not intended to be used where risk of falling objects exists. If your vehicle will be used in such an environment, contact your local dealer.
- Do not drive the vehicle under tree limbs, bridges, tunnels, or other objects that are less than 80 inches (203 cm) from the ground.

No one should drive the vehicle without first being instructed in the proper operation and use of the vehicle's controls. An experienced operator should accompany each first-time driver on a test drive before allowing him/her to operate the vehicle alone.

To ensure safe operation of the vehicle, follow exactly and in order, all of the following procedures. Read and understand all instructions prior to driving the vehicle.

## **STARTING THE VEHICLE**

1. Study and understand controls.
2. Make sure everyone is seated and holding onto seat handles or handrails.
3. Read safety warnings located on dash and (or) above pedals.
4. Make sure wheels are turned in desired direction.
5. Turn the key to the ON position and make sure nothing is in your path.
6. Select direction by placing Forward/Reverse handle or switch in desired position (F = forward or R = reverse). A buzzer will sound as a warning when the Forward/Reverse handle or switch is in the REVERSE position.
7. Slowly press accelerator pedal. The park brake will release automatically and the vehicle will start to move. As the accelerator pedal is pressed, speed will increase until full speed is reached. **See following WARNING.**

## **WARNING**

- Operator must control vehicle speed when going downhill.

### **Gasoline Vehicles:**

- Do not shift the vehicle out of forward while going downhill. If you do, you will not be able to shift into reverse or back into forward until stopped.
- Press the brake pedal as necessary and partially press the accelerator when descending a hill. With the accelerator pedal partially pressed, the governor will cause the engine to assist the brakes in controlling downhill speed.

**NOTE:** If the Forward/Reverse handle is shifted into the NEUTRAL position, power will be cut off and the engine will stop running.

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## STOPPING THE VEHICLE

### **⚠ WARNING**

- Driving through water may affect the brakes. After driving through water, check effectiveness of the brakes by gently pressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to press the brake pedal until the brakes dry out and normal performance returns.

### **⚠ CAUTION**

- When stopped on a hill, use the brake pedal to hold your position. Do not use the accelerator pedal to hold position.

To stop the vehicle, release the accelerator pedal and press the brake pedal with your right foot until the vehicle comes to a complete stop.

## PARKING AND LEAVING THE VEHICLE

1. After stopping the vehicle, firmly press the park brake pedal until it locks. This will prevent the vehicle from rolling. See following NOTE.

**NOTE: Vehicles equipped with lights:** After the park brake is engaged, the brake lights will remain illuminated for up to four minutes.

2. Turn the key switch to the OFF position and place the Forward/Reverse handle or switch in the NEUTRAL position. Remove the key when the vehicle is not in use. For gasoline vehicles, also turn off the fuel shut-off valve (Figure 15).

## TOWING

### **⚠ WARNING**

- Do not tow the vehicle on public streets or highways.
- Use only approved Club Car tow bars.
- Turn the key switch to OFF and place the Forward/Reverse handle or switch in the NEUTRAL position before towing the vehicle.
- Extreme caution should be used when towing any vehicle.
- Do not exceed 5 mph (8 km/h) towing speed.
- Do not allow people in the vehicles being towed.
- Avoid sudden starts, sudden stops, and tight turns when towing.
- Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.
- Do not tow more than one Club Car vehicle with another Club Car vehicle. If more than one vehicle must be towed, an adequately powered vehicle (tractor or full sized truck) properly fitted, with a tow hitch height of 11 inches (28 cm) should be used. Only heavy-duty tow bars should be used for multi-vehicle towing. Never tow more than five vehicles at one time.
- Gasoline vehicles only: Turn the fuel shut-off valve to closed (OFF) position (Figure 15).

A light duty tow bar is available for break-down towing and single vehicle towing. A heavy duty tow bar and an onboard tow bar are available for multi-vehicle towing. Observe all of the previous WARNING statements when towing.

## TRANSPORTING ON A TRAILER

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### **⚠ WARNING**

- For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.
- Do not tow a Club Car vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.
- The vehicle to be towed should be tied securely to the trailer, with the Forward/Reverse handle or switch in the NEUTRAL position, the key switch the OFF position, and the park brake firmly pressed and locked.
- Do not allow people in the trailer or vehicle being towed.
- Avoid sudden starts, sudden stops, and tight turns when towing.
- Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.
- When towing on a trailer, normal road speed of the tow vehicle should be reduced.
- Because of the added length of the trailer, use caution when making turns.
- Remove the vehicle windshield and secure the seat bottom before transporting on a trailer.
- Gasoline vehicles only: Turn the fuel shut-off valve to the closed (OFF) position (Figure 15).

If the vehicle must be transported over long distances or on public highways, it should be transported on an approved trailer that has the approved load rating of 1200 lb. (544 kg) per vehicle being transported.

*NOTE: A two-car trailer should be rated at  $2 \times 1200 = 2400$  lb. ( $2 \times 544 = 1088$  kg).*

## STORAGE – GASOLINE VEHICLE

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See General Warnings on page 9.

### **⚠ DANGER**

- Do not attempt to drain fuel when the engine is hot or while it is running.
- Be sure to clean up any spilled gasoline before operating the vehicle.
- Store fuel in an approved fuel container only. Store in a well-ventilated area away from sparks, open flames, heaters, or heat sources.
- Keep fuel out of the reach of children.
- Do not siphon fuel from the vehicle.

### **⚠ WARNING**

- Turn the key switch to the OFF position, remove the key, and leave the Forward/Reverse handle in the NEUTRAL position during storage. This is to prevent unintentionally starting the vehicle or a fire hazard.
- Turn the fuel shut-off valve to closed (OFF) position (Figure 15).

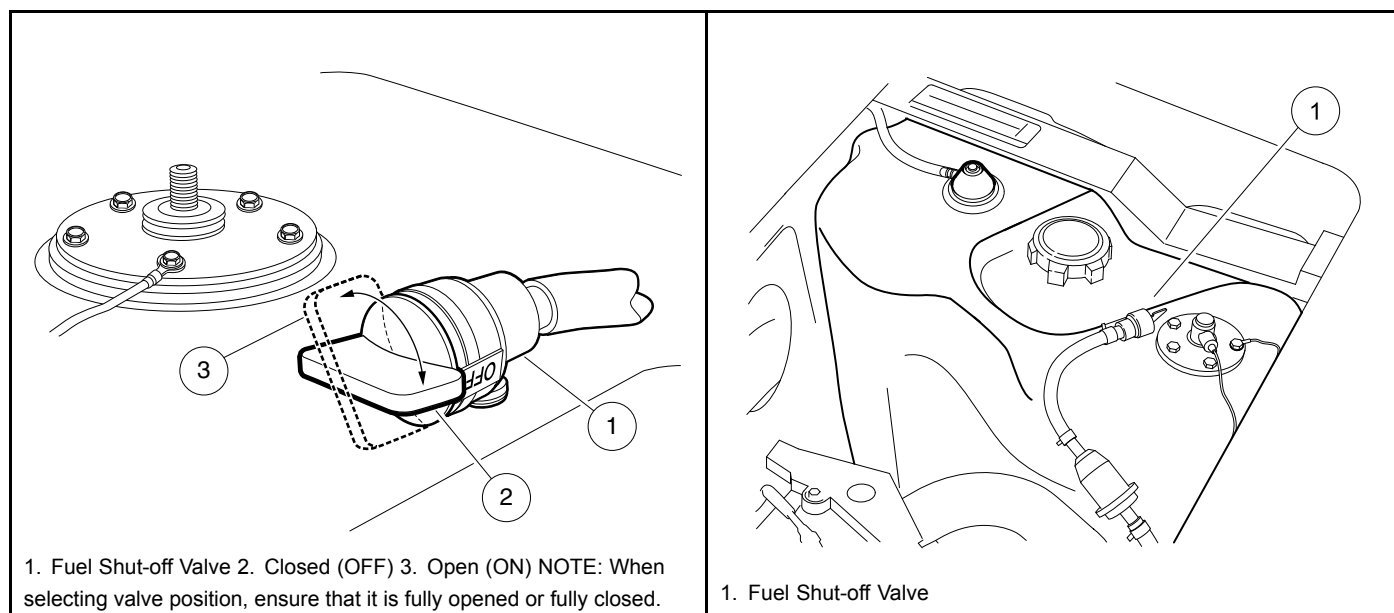


## **⚠ CAUTION**

- Batteries in a low state of charge will freeze at low temperatures.

## **PREPARING THE GASOLINE VEHICLE FOR EXTENDED STORAGE**

1. Store vehicle in a cool, dry place. This will minimize battery self-discharge. If the battery appears to be weak, have it charged by a trained technician. Use an automotive-type 12-volt battery charger rated at 10 amps or less.
2. Drain carburetor and seal the fuel tank.
  - 2.1. Place the Forward/Reverse handle in the NEUTRAL position and the neutral lockout cam in the MAINTENANCE position. Turn the fuel shut-off valve to the closed (OFF) position (**Figure 15**) and run the engine until fuel remaining in the carburetor and fuel lines is depleted and the engine stalls. Return the neutral lockout cam to the OPERATE position.
  - 2.2. Loosen, but do not remove, the carburetor drain screw and drain fuel remaining in bowl into a small, clean container, then pour the fuel from the container into vehicle fuel tank. Tighten the carburetor drain screw.
  - 2.3. Disconnect fuel vent line from fuel tank vent nipple.
  - 2.4. Plug the fuel tank vent nipple so that it is air tight. We recommend using a slip-on vinyl cap.
3. Disconnect battery and spark plug wire(s). **See Disconnecting the Battery – Gasoline Vehicles on page 11.**
4. Battery should be clean and free of corrosion. Wash top and terminals of battery with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse solution off battery. Do not allow this solution to enter the battery. Let the terminals dry and then coat them with Battery Terminal Protector Spray (CC P/N 1014305).
5. To protect the engine, remove spark plug and pour 1/2 ounce (14.2 mL) of SAE 10 weight oil into the engine through the spark plug hole. Rotate engine crankshaft by hand several times and then install the spark plug.
6. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 36.**
7. Perform semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 28.**
8. Thoroughly clean front body, rear body, seats, engine compartment, and underside of vehicle.
9. Do not engage the park brake. Chock the wheels to prevent the vehicle from rolling.



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**Figure 15 Fuel Shut-off Valve**

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**Figure 16 Fuel Tank**

## RETURNING THE STORED GASOLINE VEHICLE TO SERVICE

1. Restore the fuel systems to operation (**Figure 16**).
  - 1.1. Remove the plug from the fuel tank vent.
  - 1.2. Connect the vent tube to the fuel tank vent.
2. Connect battery and spark plug wire(s). **See Connecting the Battery – Gasoline Vehicles on page 11.**
3. Completely open the fuel shut-off valve (1) (**Figure 15**). Make sure the valve is fully open. A partially closed fuel shut-off valve combined with the use of the choke can result in a fouled spark plug and engine failure.
4. Place the Forward/Reverse handle in the NEUTRAL position and the neutral lockout cam in the MAINTENANCE position. Crank the engine until fuel is pumped into the carburetor and fuel lines and the engine starts. Turn the engine off and return the neutral lockout cam to the OPERATE position. **See following NOTE.**

**NOTE:** Due to the oil added to the engine in preparation for storage, engine may smoke excessively for a short time when it is run for the first time after storage.

5. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 36.**
6. Perform the Pre-Operation and Daily Safety Checklist on page 18.

## MAINTENANCE

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**See General Warnings on page 9.**

To ensure trouble-free vehicle performance, it is very important to follow an established preventive maintenance program. Regular and consistent vehicle maintenance can prevent vehicle downtime and expensive repairs that can result from neglect. Use the Pre-Operation and Daily Safety Checklist beginning on page 18, the Performance Inspection, and the following Periodic Service Schedules and Periodic Lubrication Schedules to keep the vehicle in proper working condition.

Any vehicle not functioning correctly should be removed from use until it is properly repaired. This will prevent further damage to the vehicle and avoid the possibility of injury due to unsafe conditions.

Contact your local Club Car distributor/dealer to perform all repairs and semiannual and annual periodic service.

### **⚠ WARNING**

- If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.
- Only trained technicians should service or repair the vehicle or battery charger. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.
- Moving parts: Do not attempt to service gasoline vehicle while the engine is running.
- Hot! Do not attempt to service hot engine or exhaust system. Failure to heed this warning could result in severe burns.
- Turn the fuel shut-off valve to the closed (OFF) position (**Figure 15**).
- To avoid unintentionally starting the vehicle, disconnect battery and spark plug wire(s). **See Disconnecting the Battery – Gasoline Vehicles on page 11.**
- Frame ground – Do not allow tools or other metal objects to contact frame when disconnecting batteries or other electrical wiring. Never allow a positive wire to touch the vehicle frame, engine, or other metal component.

## PERIODIC SERVICE SCHEDULE

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### **WARNING**

- Service, repairs, and adjustments must be made per instructions in the maintenance and service manual.

**NOTE:** *If the vehicle is constantly subjected to heavy use or severe operating conditions, the preventive maintenance procedure should be performed more often than recommended in the periodic service and lubrication schedules.*

*Both the Periodic Service Schedule and Periodic Lubrication Schedule must be followed to keep vehicle in optimum operating condition.*

PERIODIC SERVICE SCHEDULE – GASOLINE VEHICLES		
REGULAR INTERVAL	SERVICE	
Daily service by owner	Pre-Operation and Daily Safety Checklist	See Pre-Operation and Daily Safety Checklist on page 18.
	Performance Inspection	See Performance Inspection on page 18.
Monthly service by owner or trained technician	Engine	Check engine oil level; change if necessary. Properly dispose of used oil. See Periodic Lubrication Schedule on page 28.
		Check engine cooling air intake; clean if necessary. Visually inspect the unshrouded area around engine exhaust for grass and debris, and clean if necessary.
	Tires	Check air pressure and adjust as necessary. See Vehicle Specifications on page 36.
	General vehicle	Wash engine compartment and underside of vehicle. Do not wash engine when hot.
Semiannual service by trained technician only (every 50 hours of operation or every 100 rounds of golf)	Battery	Clean terminals and wash dirt from casing; Apply Battery Terminal Protector Spray (CC P/N 1014305) to battery terminals; check electrolyte level. See Battery – Gasoline Vehicles on page 29.
	Front wheel alignment and camber	Check and adjust if necessary. See Section 7 – Steering and Front Suspension in the appropriate maintenance and service manual.
	Electrical wiring and connections	Check for tightness and damage; replace if necessary.
	Brake system	Check brake shoes; replace if necessary. See Section 6 – Wheel Brake Assemblies in the appropriate maintenance and service manual.
Lubricate brake system per Lubrication Schedule. See Section 6 – Wheel Brake Assemblies in the appropriate maintenance and service manual.		
		Check brake cables for damage; replace if necessary.

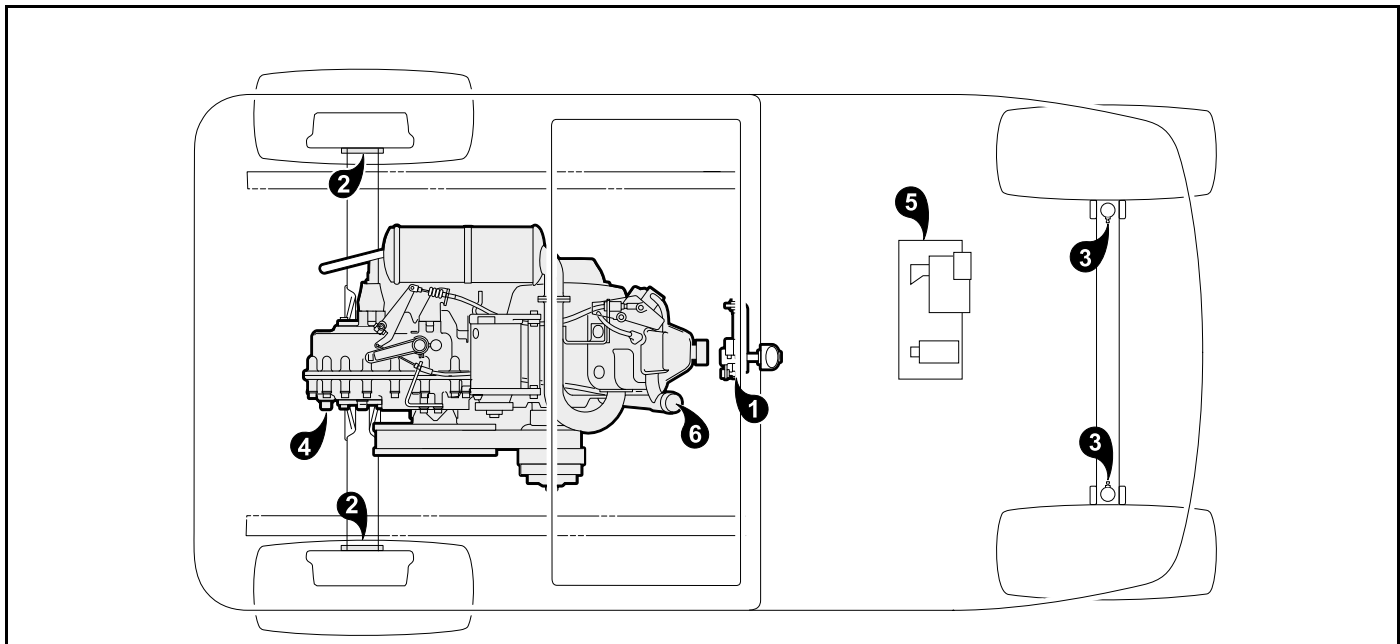
PERIODIC SERVICE SCHEDULE – GASOLINE VEHICLES		
REGULAR INTERVAL	SERVICE	
Annual service by trained technician only (every 100 hours of operation or every 200 rounds of golf)	Engine	Check for leaks around gaskets, fill plugs, etc.
		Inspect, clean and regap spark plug; replace if necessary.
	Engine air intake system	Check air filter element; replace if necessary.
		Check clamps for tightness; check hose for cracks.
	Pedal group	Lubricate all rotating joints. <b>See Periodic Lubrication Schedule on page 28.</b>
General vehicle	Check for loose hardware; tighten if necessary. Refer to the appropriate maintenance and service manual.	
Two year service by trained technician only (every 200 hours of operation or every 400 rounds of golf)	Fuel filters	Replace. Dispose of used filters properly.

** WARNING**

- If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.

## PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE – GASOLINE VEHICLES			
REGULAR INTERVAL	SERVICE	LUBRICATION POINTS	RECOMMENDED LUBRICANT
Semiannually by owner or trained technician (every 50 hours of operation or every 100 rounds of golf)	Shifter cable pivots	1	Dry Moly Lube (CC P/N 1012151)
	Brake system, per maintenance and service manual.	2	Dry Moly Lube (CC P/N 1012151), white lithium grease NLGI #2
	Front suspension (two fittings)	3	Chassis Lube - EP NLGI Grade 2
Annually by trained technician only (every 100 hours of operation or every 200 rounds of golf)	Check/fill unitized transaxle to plug level	4	27 oz. (0.8 liter) 80-90 WT. API Class GL-3 or 80-90 WT. AGMA Class EP Gear Lube
	Pedal group (as required)	5	Dupont™ Performance Dry Multi-Use Lubricant
First change 100 hours – additional change every 200 hours of operation (or every 400 rounds of golf), or annually, whichever comes first	Change engine oil and oil filter (dispose of properly)	6	32 oz. (0.95 liter) without filter; 38 oz. (1.12 liters) with filter



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Figure 17 Lubrication Points – Gasoline Vehicles

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## BATTERY – GASOLINE VEHICLES

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See General Warnings on page 9.

### **DANGER**

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Tools, wires, and metal objects can cause sparks when shorted across a battery.**
- **Follow all instructions carefully when working with batteries.**
- **Charge battery in a well-ventilated area only.**
- **Battery – Poison! Contains acid! Causes severe burns. Avoid contact with skin, eyes, or clothing.**  
Antidotes:
  - **External: Flush with water. Call a physician immediately.**
  - **Internal: Drink large quantities of milk or water followed with milk of magnesia or vegetable oil. Call a physician immediately.**
  - **Eyes: Flush with water for 15 minutes. Call a physician immediately.**

### **WARNING**

- **Do not jump start a dead battery using another battery and jumper cables.**

The battery in the Club Car gasoline vehicle is a 12-volt, low maintenance battery that requires infrequent watering (**Figure 18**).

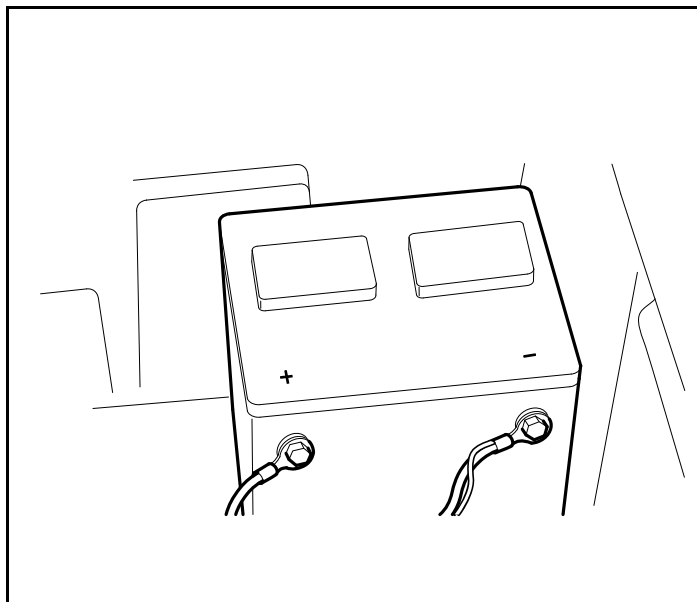
Any corrosion around the positive (+) or negative (–) terminals should be washed off with a solution of baking soda and water (1 cup (237 mL) per gallon (3.8 L) of water). Rinse solution off the battery. Do not allow this solution to enter battery. Be sure terminals are tight. Let the terminals dry and then spray them with Battery Terminal Protector Spray (CC P/N 1014305). **See Connecting the Battery – Gasoline Vehicles on page 11. See preceding and following WARNINGS.**

### **WARNING**

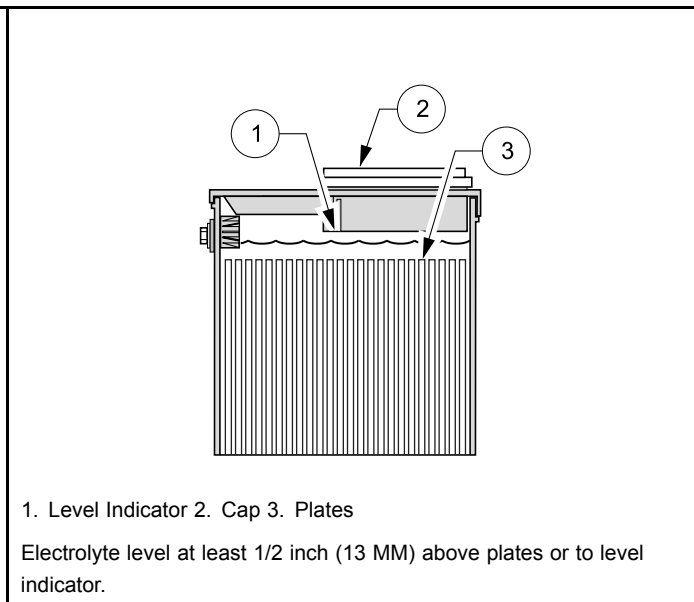
- **If battery wire terminals are damaged or corroded, replace or clean them as necessary. Failure to do so may cause them to overheat during operation and could result in fire, property damage, or personal injury.**

Be sure battery clamp is properly tightened. Tighten to 144 in-lb (16 N·m). A loose battery clamp may allow the battery to become damaged from vibration or jarring.

If battery appears weak, have it charged by a trained technician. The battery should never be left discharged any longer than absolutely necessary (do not leave discharged overnight).



72 **Figure 18 Gasoline Vehicle Battery**



22 **Figure 19 Electrolyte Level for Battery**

## ENGINE OIL – GASOLINE VEHICLES

### ENGINE OIL LEVEL CHECK

1. Remove the oil level dipstick from the oil filler tube, and wipe oil off dipstick (1) (**Figure 20**). **See following CAUTION.**

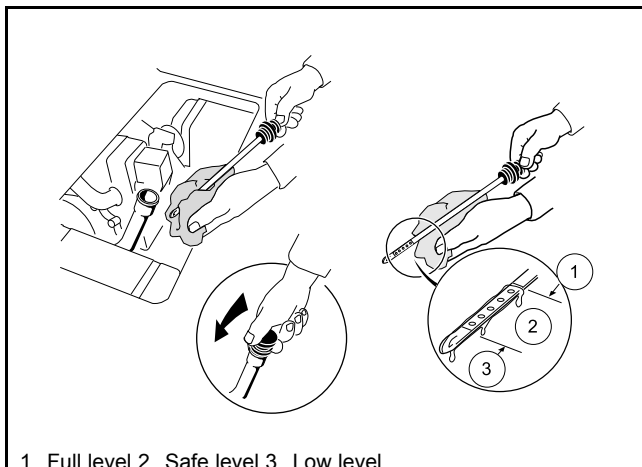
#### **CAUTION**

- **Do not remove dipstick while engine is running.**
2. Check oil by fully inserting the dipstick into the oil filler tube (2) and immediately removing it.
  3. If the oil level is at or below the low level mark on the dipstick gauge, add oil until the level is between low and full levels (safe level) (3).
  4. Insert the dipstick into the oil filler tube. **See following NOTE.**

**NOTE:** Properly recycle or dispose of used oil in accordance with the environmental laws and regulations for your area.

Even though the low oil warning light on the dash should warn you if your oil becomes low, engine oil level should be checked monthly. Vehicle should be on a level surface when checking oil. Do not overfill with oil.





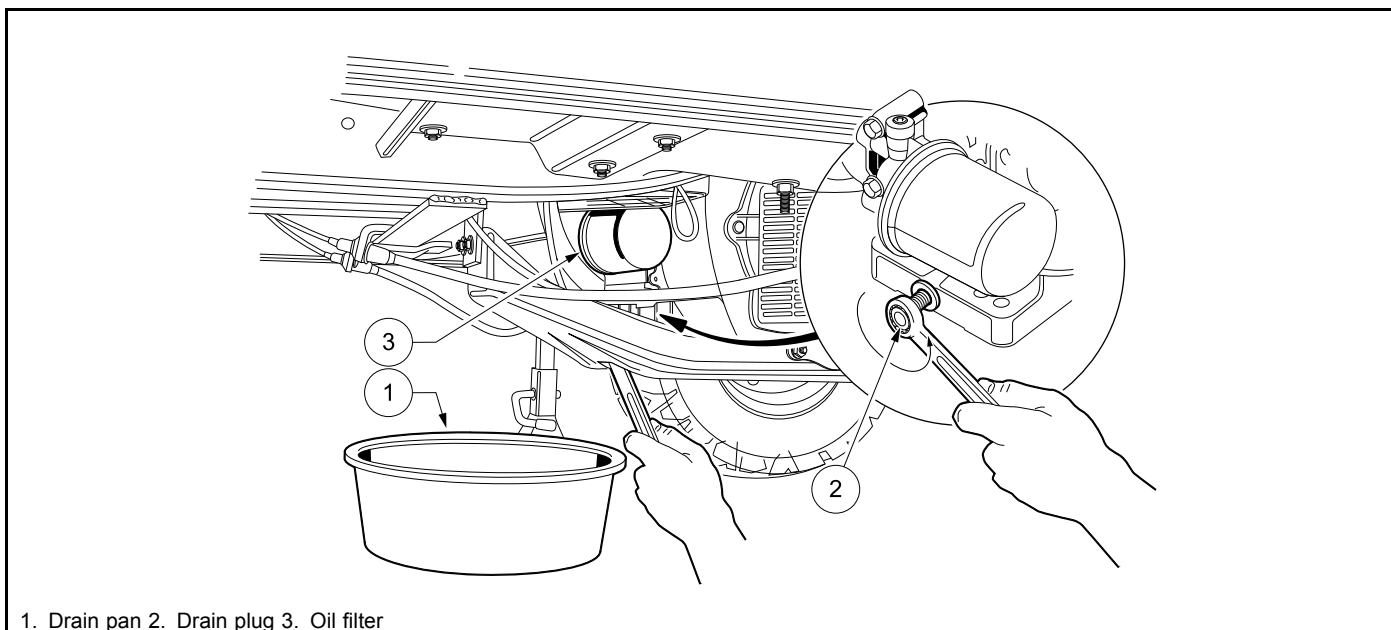
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**Figure 20 Engine Oil Level Check**

## ENGINE OIL AND FILTER CHANGE

Engine oil and oil filter should be changed after the first 100 hours of operation. After that, they should be changed every 200 hours of operation or annually, whichever comes first.

1. Turn the key switch to the OFF position, then remove the key. Place the Forward/Reverse handle in the NEUTRAL position. Chock the front wheels.
2. Access the engine compartment.
3. Disconnect battery and spark plug wire(s). **See Disconnecting the Battery – Gasoline Vehicles on page 11.**
4. Position a pan designed for oil changes under the front drain plug (**Figure 21**).



1. Drain pan 2. Drain plug 3. Oil filter

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**Figure 21 Engine Oil Drain Plug and Pan**

5. Use a 14 mm socket or wrench to remove the drain plug, turning it counterclockwise, and allow the engine oil to drain into the pan. **See following WARNING.**

### **⚠ WARNING**

- **Do not attempt to change engine oil when the engine is hot or even warm. Engine oil can cause skin burns.**
  - **Wear safety glasses or approved eye protection when servicing the vehicle. Wear rubber gloves when handling oil drain plug, oil filter, and oil drain pan.**
6. Clean the oil drain plug threads with solvent to remove oil and oil residue. Make sure that the compression washer remains on the drain plug.
  7. Use a 14 mm socket or wrench and replace the front oil drain plug, turning it clockwise, and tighten to 18 ft-lb (24.4 N·m).
  8. Relocate the oil drain pan to a position under the engine oil filter (**Figure 21**).
  9. Remove the engine oil filter, turning it counterclockwise, allowing the residual oil in the filter port and filter to drain into the oil drain pan (**Figure 22**). **See following NOTE.**

**NOTE:** An oil drip guard can be used to prevent excess oil from dripping into the engine base plate. Use an empty quart (one liter) container and cut the bottom off at an angle, then slide the open area of the container up and under the oil filter prior to removing. Position the port of the plastic container so oil will be directed into the oil pan. Or, make a drip guard by folding a piece of cardboard, thin metal, or plastic under the oil filter forming a channel to direct the filter port oil into the drain pan.

Dispose of used oil according to the environmental laws and regulations for your area.



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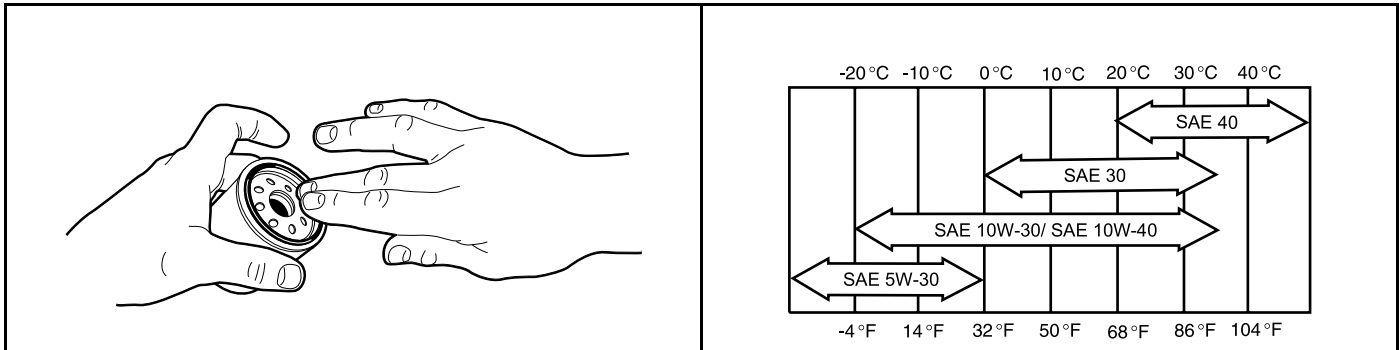
**Figure 22 Remove Engine Oil Filter**

10. Use a clean rag and wipe the oil filter mounting bracket surface clean where the oil filter gasket seats.
11. Coat new oil filter gasket with clean engine oil and install the oil filter onto the engine oil filter port (**Figure 23**).

**NOTE:** Use only Club Car oil filters (CC P/N 1016467) designed for this engine.

12. Hand tighten 2/3 to 3/4 turn after filter gasket contacts mounting surface.
13. Remove the dipstick and add engine oil into the dipstick port. Use a funnel or pour spout to direct the oil into the dipstick port. With filter change, the engine requires 38 ounces (1.12 liters) of oil per change. Refer to oil viscosity guidelines for selection of oil grade (**Figure 24**). Replace the dipstick.
14. Connect battery and spark plug wire(s). **See Connecting the Battery – Gasoline Vehicles on page 11.**

15. With the Forward/Reverse handle in the NEUTRAL position, run engine for 3 minutes and check for leaks. Observe both the drain plug and the oil filter from under the vehicle and watch for oil leaks. If filter leaks, tighten additional 1/4 turn and retest, if oil drain plug leaks, re-torque and retest.
16. Remove the dip stick and check the engine oil as a final step. Replace the dip stick.



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Figure 23 Coat Oil Filter Rubber Seal

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Figure 24 Oil Viscosity Chart

## FUELING INSTRUCTIONS – GASOLINE VEHICLES

See General Warnings on page 9.

### **⚠ DANGER**

- Turn the key switch to the OFF position before fueling.
- Do not pour fuel into the fuel tank when the engine is hot or while it is running.
- Be sure the fuel tank ground wire, located next to the fuel shut-off valve, is properly connected before fueling the vehicle.
- To avoid electric arc caused by static electricity, the fuel storage/pumping device must be grounded. If the pump is not grounded, the vehicle must be grounded to the pump before and during the fueling operation.
- If the vehicle has an all-weather enclosure installed, be sure the fuel tank is properly vented as shown (Figure 16, Page 23).
- To avoid the possibility of fire, clean up any spilled fuel before operating the vehicle.

### **⚠ CAUTION**

- To allow for expansion, do not fill higher than 2.54 cm (one inch) from the top of the fuel tank. Avoid spilling fuel.

**NOTE:** Whenever possible, avoid using oxygenated fuels and fuels that are blended with alcohol. Vehicles to be stored for extended periods should be prepared for storage as instructed. See **Preparing the Gasoline Vehicle for Extended Storage** on page 23.

1. Turn the key switch to the OFF position.
2. Lift and remove seat bottom.
3. The fuel tank is located on driver side of vehicle. Remove fuel cap and fill the fuel tank with fresh unleaded gasoline only. See preceding **CAUTION**.

4. Replace fuel cap on tank. Ensure that cap is tightened securely.
5. Replace seat bottom.

## CLEANING THE VEHICLE

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Club Car Precedent vehicles are equipped with hand-washable front and rear bodies. Use only commercially available automotive cleaners with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate.

The manufacturer does not recommend any type of pressure washing or steam cleaning. Such a process will expose electrical components to moisture. Moisture entering electrical components can result in water damage and subsequent component failure.

Use non-abrasive wax products. Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains. **See following CAUTION.**

### **CAUTION**

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- Use of leveling or rubbing compounds will permanently dull finish of vehicle.
- Do not apply wax products to the black plastic material of the front and rear underbody, the front bumper, or the textured area of the rear beauty panel marked "NO STEP." Wax will cause these surfaces to become discolored.

The seats of the vehicle will last longer with proper cleaning. Use a solution of 10% liquid soap and warm water applied with a soft cloth. For imbedded dirt, a soft bristle brush may be used. For heavy soiling, difficult stains or scratches, blemishes, or other body damage, see the appropriate maintenance and service manual.

*NOTE: Dispose of waste water properly.*

## ACCESSORIES

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There is a complete line of accessory equipment available from Club Car and our dealers/distributors. You can obtain the name and phone number of your closest Club Car contact by visiting our web site at [www.clubcar.com](http://www.clubcar.com) and clicking the "Dealer Locator" link.

Care should be taken that these accessories are properly installed by trained technicians, and that they are used in the manner for which they were designed. **See following WARNING.**

### **⚠ WARNING**

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- Windshields and weather-proof enclosures will not protect occupants from flying objects (golf balls, etc.).

## SUBSEQUENT OWNER REGISTRATION

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In the event a vehicle is bought as a used vehicle, we strongly urge the new owner to register the vehicle with Club Car. This will enable us to contact you if the need arises. Please send your name, address, and serial number(s) of the vehicle(s) to Club Car, LLC, P.O. Box 204658, Augusta, Georgia 30917-4658, Attention: Vehicle Registration.

## PRECEDENT FOUR-PASSENGER VEHICLE

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The Precedent four-passenger vehicle is designed to provide a smooth and comfortable ride for four passengers and is offered in a gasoline power configurations. This owner's manual should be read thoroughly prior to operating the vehicle.

The Precedent four-passenger vehicle should be driven and maintained as stated in this owner's manual with the following additions:

### **WARNING**

- Vehicle should be driven at slower speeds when four persons are in the vehicle.
- Passengers should hold on to hand holds or hand rails at all times. See page 7. Driver should keep both hands on the steering wheel while vehicle is moving.
- Do not leave children unattended on the rear seat while vehicle is moving.
- No more than four persons should be on the vehicle at one time.

### MAINTENANCE

Refer to pages 25 through 28 for Periodic Service and Lubrication Schedules. **See following NOTE.**

**NOTE:** *If the vehicle is constantly hauling heavy loads, the preventive maintenance procedures should be performed more often than recommended in the service and lubrication schedules.*

## VEHICLE SPECIFICATIONS

SPECIFICATIONS	TWO-PASSENGER GASOLINE VEHICLE	FOUR-PASSENGER GASOLINE VEHICLE
<b>POWER SOURCE</b>		
<b>Engine:</b> 4-cycle OHV, 351 cc, 11.5 maximum HP@3600 RPM (per SAE J 1940/1349), single-cylinder, air-cooled, with pressure lubrication system	.	.
<b>Fuel system:</b> Side-draft carburetor with float bowl, fixed jets, fuel filters, and impulse fuel pump	.	.
<b>Governor:</b> Automatic ground-speed sensing, internally geared in unitized transaxle	.	.
<b>Ignition:</b> Transistor electronic ignition with electronic RPM limiter	.	.
<b>Unitized transaxle:</b> Fully synchronized forward and reverse with neutral and reduced speed reverse (11.8:1 forward, 17.1:1 reverse)	.	.
<b>Torque converter:</b> Automatic, variable-speed, dry type	.	.
<b>Electrical system:</b> 12 volt, 500 cca at 0 °F (-17.8 °C), 650 at 32 °F (0 °C). 105-minute reserve capacity and 35-amp charging capacity	.	.
<b>STEERING/SUSPENSION/BRAKES</b>		
<b>Steering:</b> Self-adjusting rack and pinion	.	.
<b>Suspension:</b> Front and rear tapered mono-leaf springs with dual hydraulic shocks	.	.
<b>Brakes:</b> Dual rear wheel self-adjusting brakes with cast iron drums and single brake pedal with automatic-release park brake	.	.
<b>BODY/CHASSIS</b>		
<b>Frame/Chassis:</b> Aluminum and composite	.	.
<b>Front and rear body:</b> Dupont Surlyn© Reflections	.	.
<b>Body finish:</b> High-gloss molded-in color	.	.
<b>Tires:</b> 18 x 8.5 – 8 tubeless, 4 ply rated	.	.
<b>DIMENSIONS/WEIGHT</b>		
<b>Overall length</b>	91.5 in. (232 cm)	104 in. (264 cm)
<b>Overall width</b>	47.25 in. (120 cm)	47.25 in. (120 cm)
<b>Overall height (with canopy)</b>	68.5 in. (174 cm)	71 in. (180 cm)
<b>Overall height (at steering wheel)</b>	48.0 in. (122 cm)	48.0 in. (122 cm)
<b>Wheelbase</b>	65.5 in. (166 cm)	65.5 in. (166 cm)
<b>Ground clearance</b>	4.5 in. (11 cm)	4.5 in. (11 cm)
<b>Front wheel tread</b>	34.5 (88 cm)	34.5 (88 cm)
<b>Rear wheel tread</b>	38.6 in. (98 cm)	38.6 in. (98 cm)
<b>Weight (standard gasoline vehicle with canopy, with battery, without fuel)</b>	651 lb. (295 kg)	768 lb. (348 kg)
<b>Forward speed</b>		
<b>Curb clearance circle (diameter)</b>	17 ft - 4 in. (528 cm)	17 ft - 4 in. (528 cm)
<b>Standard seating capacity</b>	2	4

SPECIFICATIONS	TWO-PASSENGER GASOLINE VEHICLE	FOUR-PASSENGER GASOLINE VEHICLE
<b>LIQUID CAPACITIES</b>		
<b>Engine crankcase</b> (without filter)	32 oz. (.95 liter)	32 oz. (0.95 liter)
<b>Engine crankcase</b> (with filter)	38 oz. (1.12 liters)	38 oz. (1.12 liters)
<b>Unitized transaxle</b>	27 oz. (0.8 liter)	27 oz. (0.8 liter)
<b>Fuel tank</b>	6.7 gallons (25.4 liters)	6.7 gallons (25.4 liters)
<b>TIRE PRESSURE</b>		
<b>Front and rear</b>	12-14 psi (0.83-0.96 bars)	18-20 psi (1.24-1.38 bars)
<b>NOISE AND VIBRATION</b>		
<b>Drive-by noise level to operator</b> Test method: EN 12053:2001	70.9 dBA Uncertainty: 2 dBA	70.9 dBA Uncertainty: 2 dBA
<b>Vibration at driver's seat</b> Test method: EN 13059:2002	0.8 m/s <sup>2</sup> Uncertainty: 0.096 m/s <sup>2</sup>	0.8 m/s <sup>2</sup> Uncertainty: 0.096 m/s <sup>2</sup>

## WARRANTIES

### CLUB CAR® LIMITED ONE YEAR POWERTRAIN WARRANTY FOR CONVERTED GAS PRECEDENT GOLF CAR

**WARRANTY:** CLUB CAR, LLC, (CLUB CAR) hereby warrants the Powertrain of converted gas Precedent golf car purchased from CLUB CAR or an authorized distributor, dealer, or agent shall be free from defects in material and workmanship under normal use and service for the period as stated in years below, as terms are defined herein, and subject to the provisions, limitations and exclusions contained in this warranty.

	Con- verted Gas
<b>POWERTRAIN</b> defined as Gasoline Engine, Gasoline Transaxle, Starter Generator, Air Intake, Exhaust System, and Torque Converter (Drive and Driven).	1

IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO CLUB CAR AT THE TIME OF THE ORIGINAL RETAIL SALE, PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

**EXCLUSIONS:**

Excluded from any CLUB CAR warranty is damage to a golf car or component resulting from a cause other than a defect including poor maintenance, neglect, abuse, accident & collision, maintenance adjustments, unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, nonapproved alteration, and acts of god. Also excluded from any CLUB CAR warranty are all fuses, filters, decals (except safety decals), lubricants, routine wear items such as the charger plug and receptacle, brake shoes, belts, brushes, bushings, drive buttons, cosmetic deterioration, and items which deteriorate, fade or fail due to exposure or ordinary wear and tear.

Transportation expenses for warranty services are also excluded from this warranty

**VOIDING OF WARRANTY:**

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE GOLF CAR IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE CAR TO CAUSE IT TO PERFORM OUTSIDE CLUB CAR SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE CAR INVOLVED SHOWS INDICATIONS THAT REASONABLE OR NECESSARY MAINTENANCE AS OUTLINED IN THE OWNER'S MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

**SOLE REMEDY:**

CLUB CAR's liability under this limited warranty, or in any action whether based upon warranty, contract, negligence, strict product liability or otherwise, shall be the repair or replacement, at CLUB CAR's option, of the golf car or component thereof that CLUB CAR deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new golf car or factory-reconditioned vehicle or component thereof that is identical or reasonably equivalent to the warranted product or component at no cost to the purchaser. Repair shall mean remedying a defect in the golf car or component thereof at no cost to the purchaser during the applicable limited warranty period. If CLUB CAR elects to repair the golf car, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of CLUB CAR.

**DISCLAIMER:**

**THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE SOLE REMEDY OF THE REPLACEMENT OR REPAIR OF THE**



**DEFECTIVE GOLF CAR OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.**

In the event that another pre-printed warranty document and/or certificate offered by or through Club Car at the time of sale of this vehicle (each an "Additional Warranty Document") is deemed to conflict with the limitations or exclusions contained herein, the limitations and exclusions contained herein shall continue to apply with respect to both this limited warranty statement and, to the maximum extent permitted by law, to each Additional Warranty Document.

**NO CONSEQUENTIAL DAMAGES:**

**IN NO EVENT SHALL CLUB CAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE GOLF CAR, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.**

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitation of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

**INFORMATION:**

For further information contact WARRANTY SERVICES, CLUB CAR, LLC, P.O. Box 204658, Augusta, Georgia 30917-4658, U.S.A., 706-863-3000.

**WARNING:**

Any modification or alteration of any golf car beyond factory specifications, including those that affect the weight distribution, stability, or speed of the golf car, can cause serious personal injury or death.

## **CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT**

### **YOUR WARRANTY RIGHTS AND OBLIGATIONS:**

The California Air Resources Board ("CARB") and Club Car, LLC ("CLUB CAR") are pleased to explain the emission control system warranty on your 2009-2010 vehicle engine (the "emission warranty"). In California, new small off-road engines ("SORE") must be designed, built and equipped to meet the State's stringent anti-smog standards. CLUB CAR shall warrant the emission control system on the vehicle engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, the catalytic converter and related hoses, belts, connectors and other emission assemblies or components.

Where a warrantable condition exists, as defined herein, CLUB CAR will repair your vehicle engine at no cost to you including diagnosis, parts and labor.

### **MANUFACTURER'S WARRANTY COVERAGE:**

This emission control system is warranted for two years from the vehicles' date of purchase. If any emission-related part on your CLUB CAR SORE is defective, the part will be repaired or replaced by CLUB CAR.

### **OWNER'S WARRANTY RESPONSIBILITIES:**

- As the vehicle engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. CLUB CAR recommends that you retain all receipts covering maintenance on your vehicle engine, but CLUB CAR cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

- As the vehicle engine owner, you should however be aware that CLUB CAR may deny you warranty coverage if vehicle engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

- You are responsible for presenting vehicle engine to a CLUB CAR distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact WARRANTY SERVICES, CLUB CAR, LLC, P.O. Box 204658, Augusta, Georgia 30917-4658, U.S.A., 1-706-863-3000.

### **CLUB CAR EXPLANATION OF EMISSION CONTROL WARRANTY:**

#### **1. WARRANTY:**

CLUB CAR warrants to the ultimate purchaser and each subsequent purchaser that the SORE and related emissions equipment is designed, built and equipped so as to conform with all applicable California environmental emission regulations; and free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in CLUB CAR's application for certification with CARB. The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser or first placed into service. The warranty period is two years from the date of purchase.

#### **2. COVERAGE:**

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

(1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by CLUB CAR according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the original warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining original warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by CLUB CAR according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station\* at no charge to the owner.

(5) Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.

(6) The engine or equipment owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station\*.

(7) CLUB CAR is liable for damages to other engine or equipment components proximately caused by a covered failure under warranty of any warranted part.

(8) Throughout the engine or equipment warranty period stated above, CLUB CAR will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of CLUB CAR.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. CLUB CAR will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

\*CLUB CAR, its authorized dealers, or a service agency approved by CLUB CAR.

#### **ITEMS COVERED BY THIS WARRANTY:**

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if CLUB CAR demonstrates that the engine or equipment has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

#### **SYSTEMS COVERED PARTS DESCRIPTION**

Fuel Metering Carburetor assembly, fuel injection pump, fuel injection nozzle, fuel regulator Exhaust Catalytic Converter, Exhaust Manifold Air Induction Air filter housing, air filter\*, crankcase breather tube Ignition Flywheel magneto, ignition pulse generator, ignition coil assembly, ignition control module, spark plug cap, spark plug\* Positive Crankcase Ventilation (PCV) System PCV valve, oil filler cap Evaporative System Fuel Tank, Fuel Cap, Fuel Lines, Fuel Line Fittings, Clamps, Pressure Relief Valves, Purge Valves, Vapor Hoses, Carbon Canister, Canister Mounting Brackets, Carbon Canister Purge Port Connector Misc. Parts Belts, hosing, tubing, fittings, seals, gaskets, clamps, and switches associated with the above systems.

Emission-related parts will vary between vehicles; therefore, certain vehicles may not include all of the listed parts or may include equivalent parts.

#### **3. VOIDING OF WARRANTY:**

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE CLUB CAR SPECIFICATIONS.

#### **4. HOW TO MAKE A WARRANTY CLAIM:**

To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized CLUB CAR dealer or send the defective component, freight prepaid, to WARRANTY SERVICES, CLUB CAR, LLC, 4125 Washington Road, Evans, Georgia 30809, U.S.A., 706-863-3000.

## EMISSION CONTROL INFORMATION

### Fuel Information

THIS VEHICLE IS CERTIFIED TO OPERATE ON UNLEADED REGULAR GRADE GASOLINE ONLY. A minimum of 87 octane of the anti-knock index is recommended. The anti-knock index is posted on service station pumps in the U.S.A.

### Emission Control Information

To protect the environment in which we all live, Club Car has incorporated crankcase emission (1) and exhaust emission (2) control systems (EM) in compliance with applicable regulations of the U.S. Environmental Protection Agency and California Air Resources Board.

#### 1. Crankcase Emission Control System

A sealed-type crankcase emission control system is used to eliminate blow-by gases. The blow-by gases are led to the breather chamber through the crankcase. Then, it is led to the air cleaner.

Oil is separated from the gases while passing through the inside of the breather chamber from the crankcase, and then returned back to the bottom of the crankcase.

#### 2. Exhaust Emission Control System

The exhaust emission control system applied to this engine consists of a carburetor and an ignition system having optimum ignition timing characteristics.

The carburetors have been calibrated to provide lean air/fuel mixture characteristics and optimum fuel economy with a suitable air cleaner and exhaust system.

#### Maintenance and Warranty

Proper maintenance is necessary to ensure that your engine will continue to have low emission levels. Those items identified by the Periodic Maintenance Chart are necessary to ensure compliance with the applicable standards.

The Club Car Limited Emission Control System Warranty requires that you return your engine to an authorized Club Car Dealer for remedy under warranty. Please read the warranty carefully, and keep it valid by complying with the owner's obligations it contains.

#### Tampering with Emission Control System Prohibited

California State law prohibits the following

acts or the causing thereof: (1) the removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new engine for the purposes of emission control prior to its sale or delivery to the ultimate purchaser or while it is in use, or (2) the use of the engine after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

Do not tamper with the original emission related parts:

- Carburetor and internal parts
- Spark plugs
- Magneto or electronic ignition system
- Fuel filter element
- Air cleaner element
- Crankcase
- Cylinder head
- Breather chamber and internal parts
- Intake pipe and tube

## FUEL AND OIL RECOMMENDATIONS

### Fuel

Use only clean, fresh, unleaded regular grade gasoline.

### Octane Rating

The octane rating of a gasoline is a measure of its resistance to "knocking". Use of a minimum of 87 octane of the anti-knock index is recommended. The anti-knock index is posted on service station pumps in the U.S.A.

#### NOTE

- If "knocking or pinging" occurs, use a different brand of gasoline or higher octane rating.

### CAUTION

- Do not mix oil with gasoline.

### Oxygenated Fuel

If you use oxygenated fuel (either ethanol or MTBE added to gasoline), be sure it is unleaded and meets the minimum octane rating requirement.

The following are the EPA approved percentages of fuel oxygenates.

ETHANOL: (Ethyl or Grain Alcohol) You may use gasoline containing up to 10% ethanol by volume.

MTBE: (Methyl Tertiary Butyl Ether) You may use gasoline containing up to 15% MTBE by volume.

METHANOL: (Methanol or Wood Alcohol) 5% by volume.

You may use gasoline containing up to 5% methanol by volume, as long as it also contains cosolvents and corrosion inhibitors to protect the fuel system. Gasoline containing more than 5% methanol by volume may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of your fuel system.

### WARNING

- Gasoline is extremely flammable and can be explosive under certain conditions. Turn the engine switch OFF. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Never fill the tank so the fuel level rises into the filler neck. If the tank is overfilled, heat may cause the fuel to expand and overflow through the vent in the fuel tank.

### Engine Oil

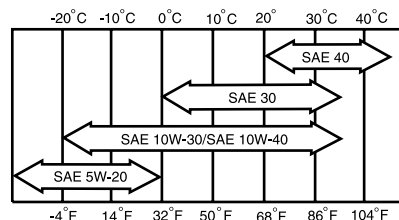
The following engine oils are recommended. API Service Classification: SC, SD, SE, SF, SG, or SH.

### WARNING

- After refueling, make sure the tank cap is closed securely.
- If gasoline is spilled on the fuel tank wipe it off immediately.

### Oil Viscosity

Choose the viscosity according to the temperature as follows:



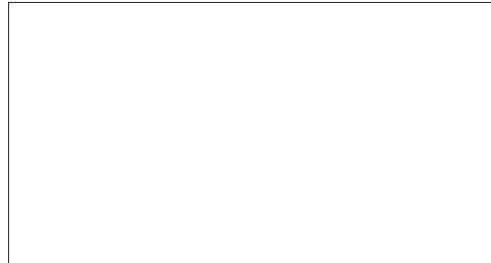
#### NOTE

- Using multi-grade oils (5W-20, 10W-30, and 10W-40) will increase oil consumption. Check oil level more frequently when using them.









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This manual is valid for vehicles with build codes between 55137 and the one indicated at the top of this page.



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