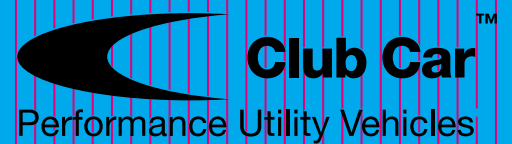


# Pioneer

900



2002 OWNER'S MANUAL



# 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

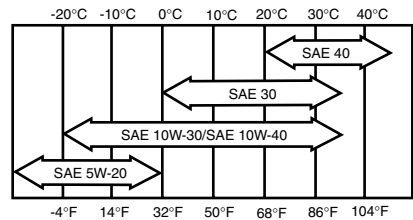
The following engine oils are recommended. API Service Classification: SC, SD, SE, SF, SG, or SH.

## 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.

## WARNING

- THE ENGINE EXHAUST FROM THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.

## NOTICE

---

The Pioneer Vehicle Limited Warranty appears on the last pages of this manual. No other warranties, express or implied, are contained herein. Your authorized representative checked this 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.

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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.



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This manual effective July 23, 2001.

## FOREWORD

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Thank you for choosing Club Car. You have chosen the finest utility vehicle on the market; the vehicle most widely recognized as the industry leader in vehicle efficiency and long-lasting value. Please protect your investment and ensure that your Club Car 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, 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 Club Car vehicle needs repairs or service, we recommend that your local authorized Club Car representative perform them. For the name and address of the Club Car representative 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. Your local authorized Club Car representative can also provide technical advice, parts, and service manuals.

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

# 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 Club Car. 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.

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## SAFETY DETAILS

### **⚠ 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.

If any of the operation or warning 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 Pioneer 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 indicates hazards or unsafe practices that could result in minor personal injury or product or property damage.

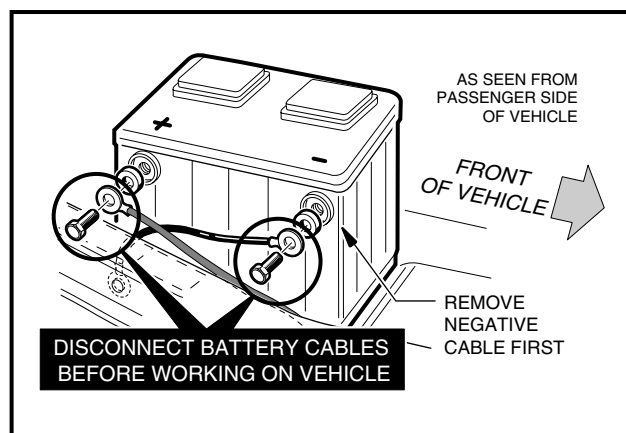


Figure 1 Battery Cable Removal



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## GENERAL WARNINGS

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The safety precautions listed must be followed whenever the vehicle is being operated, repaired, or serviced. Vehicle feature identification information is also included beginning on page 8. Other specific WARNING statements appear throughout this manual and on the vehicle.

### **DANGER**

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

### **WARNING**

- **When stopping and leaving the vehicle:**
  - Turn the key switch to OFF and remove the key.
  - Place the Forward/Reverse handle in NEUTRAL.
  - Engage the park brake.
- **Only trained technicians should repair or service the vehicle. Anyone doing even simple repairs or service should follow the procedures exactly as stated in this manual, and follow all DANGER, WARNING, and CAUTION precautions listed in this manual as well as those affixed to the vehicle.**
- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working with batteries.**
- **Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance or severe personal injury.**
- **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.**
- **Follow all procedures listed in this manual for loading and unloading the vehicle. Do not exceed vehicle-rated weight capacity.**
- **Prior to servicing the vehicle:**
  - Turn the key switch to OFF and remove the key.
  - Place the Forward/Reverse handle in NEUTRAL.
  - Chock the wheels.
  - Disconnect the battery cables, negative (–) cable first (Figure 1, Page 6).
  - Disconnect the spark plug wire from the spark plug.
- **Use insulated tools when working around battery or electrical connections.**
- **Frame ground – Do not allow tools or other metal objects to contact frame when disconnecting battery or other electrical wiring. Never allow a positive wire to touch the vehicle frame, engine, or other metal component.**

# PIONEER 900

**⚠ WARNING**

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

- Before using vehicle, read operating instructions.
- Remain seated and hold on to seat handle while moving.
- Do not start vehicle until all occupants are seated.
- Two (2) persons per seat maximum.
- Operate from driver side only and not on public roads.
- Keep entire body inside vehicle while moving.
- Drive slowly in turns and straight up and down slopes.
- Do not leave children unattended on vehicle.
- Never operate under the influence of alcohol or drugs.
- Use brakes to reduce speed when coasting downhill.
- Never stand in front of or behind vehicle.

CCI 1019608-01

**DRIVER/PASSENGER  
WARNING DECAL**

**OPERATING INSTRUCTIONS**

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

**TO START ENGINE**

- Place shift lever in "N" - Neutral position.
- Depress brake pedal.
- Turn key switch to "START" position and release.

**TO OPERATE VEHICLE**

- Make sure wheels are turned in desired direction.
- Be sure nothing is in your path.
- While vehicle is stopped, and engine is at idle, select vehicle direction by placing shift lever or switch in desired position.
- F - Forward N - Neutral R - Reverse (Buzzer will sound)
- Park brake will release when accelerator pedal is pushed.
- Slowly push accelerator pedal to increase speed.
- Engine must be at idle before moving shift lever.

**TO STOP VEHICLE**

- Release accelerator pedal and push brake pedal.
- After stopping, firmly push park brake until it locks.
- Turn key to "OFF" position, remove key and place shift lever in straight up neutral position when not in use.

CCI 101693201

**OPERATING INSTRUCTIONS**

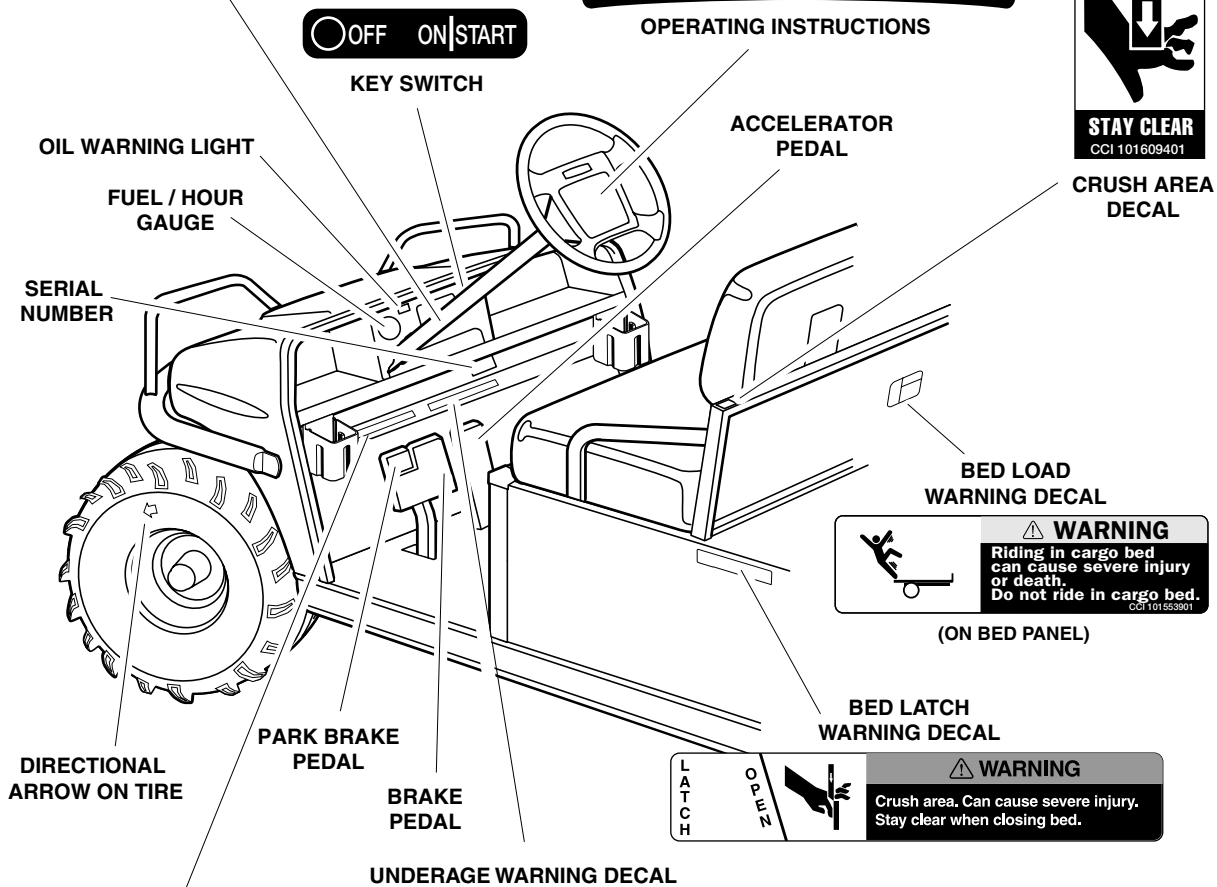
**⚠ WARNING**

**CRUSH AREA**

**STAY CLEAR**

CCI 101609401

**CRUSH AREA  
DECAL**



**⚠ WARNING**

Riding in cargo bed can cause severe injury or death. Do not ride in cargo bed.

CCI 101653901

**BED LOAD  
WARNING DECAL  
(ON BED PANEL)**

**⚠ WARNING**

Crush area. Can cause severe injury. Stay clear when closing bed.

**UNDERAGE WARNING DECAL**

**⚠ WARNING**

**UNDER 16**

**YOUNG DRIVERS INCREASE CHANCE OF DEATH**

- Young drivers may not be able to control vehicle.
- No drivers younger than 16 years old.

CCI 102075801

**VEHICLE LOADING DECAL**

<p><b>VEHICLE LOADING</b></p> <p>Read Owner's Manual and warnings on dash.</p>	<ul style="list-style-type: none"> <li>• Vehicle rated capacity - 900 lbs. on level surface only. Weight to include passengers, cargo bed load, and gross trailer weight. See Owner's Manual.</li> <li>• Maximum cargo load - 500 lbs. Weight to include cargo bed load and gross trailer weight.</li> <li>• Maximum trailer hitch tongue weight - 150 lbs.</li> </ul>	<ul style="list-style-type: none"> <li>• Cargo should be evenly spread over the floor of the cargo bed as far forward as possible and secured.</li> <li>• For vehicle stability, when fully loaded, drive slowly and avoid stopping on or backing down steep hills.</li> <li>• Avoid top heavy loads. See Owner's Manual.</li> <li>• When driving on uneven terrain or down steep hills, reduce speed and load.</li> </ul> <p>CCI 102006701</p>
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# PIONEER 900



**WARNING**

- GASOLINE EXPLOSION / FIRE.
- CAN CAUSE SEVERE INJURY OR DEATH.
- NO SMOKING, SPARKS, OR OPEN FLAME.
- STOP ENGINE. ALLOW TO COOL BEFORE REFUELING.
- TURN FUEL VALVE (  ) ON DURING OPERATION.
- TURN FUEL VALVE (  ) OFF DURING STORAGE OR TRANSPORT. CCI 101547601

**GASOLINE WARNING DECAL**  
(ON FRAME)

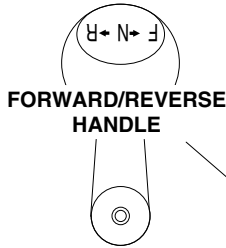


**WARNING**

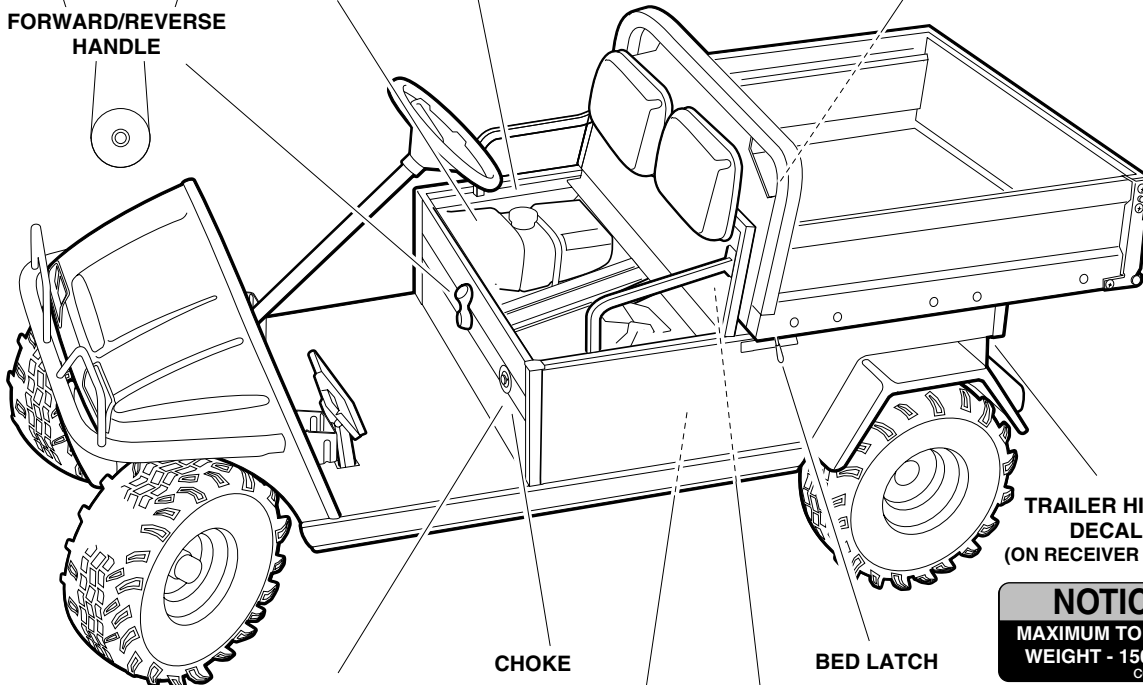
**Rotating Parts**

CCI 102234001

**ROTATING PARTS DECAL**  
(TOP OF PASSENGER SIDE FENDER)



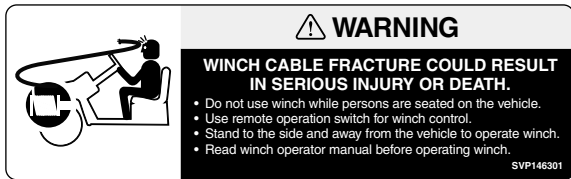
**FUEL SHUT-OFF VALVE**




**NOTICE**

**MAXIMUM TONGUE WEIGHT - 150 lbs.**

CCI 1011553



**WARNING**

**WINCH CABLE FRACTURE COULD RESULT IN SERIOUS INJURY OR DEATH.**

- Do not use winch while persons are seated on the vehicle.
- Use remote operation switch for winch control.
- Stand to the side and away from the vehicle to operate winch.
- Read winch operator manual before operating winch.

SVP146301

(ON SEAT SUPPORT PANEL)

**ROTATING PARTS AND HOT MANIFOLD DECAL**  
(ON STARTER/GENERATOR AND ENGINE)



**WARNING**

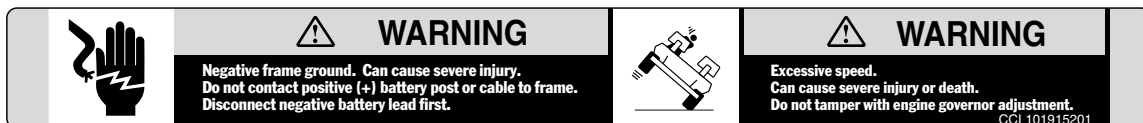
**CAN CAUSE SEVERE INJURY**

**Rotating parts**

**HOT manifold & muffler**

**KEEP CLEAR** CCI 101960501

**FRAME GROUND AND GOVERNOR WARNING DECAL**  
(ON FRAME)



**WARNING**

**Negative frame ground. Can cause severe injury. Do not contact positive (+) battery post or cable to frame. Disconnect negative battery lead first.**

**WARNING**

**Excessive speed. Can cause severe injury or death. Do not tamper with engine governor adjustment.**

CCI 101915201

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## GENERAL INFORMATION

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Throughout this manual, important vehicle information and features are highlighted. We urge the owner/operator to read and understand this manual.

---

## MODEL IDENTIFICATION

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The serial number of each Pioneer vehicle is printed on a bar code decal mounted on the frame directly above the accelerator pedal (Example: AE0201-123456) (**Figure 2, Page 10**). There is also a second serial number decal mounted on the front body frame behind the center dash panel. The center dash panel must be removed to view this decal. **See following NOTE.**

**NOTE:** Always have the vehicle serial number at hand when ordering parts or making inquiries.

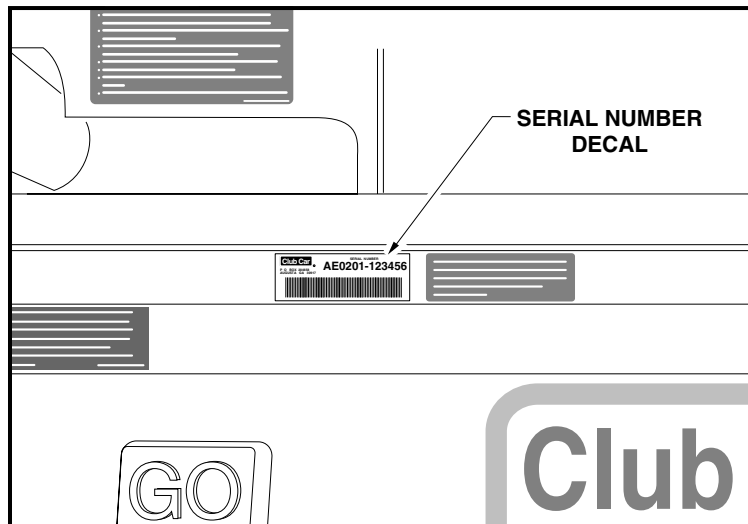


Figure 2 Serial Number Decal

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## CONTROLS AND INDICATORS

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Read **DANGER** and **WARNING** on page 7.

### **⚠ WARNING**

- Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.
- 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 speeds.
- Do not modify or change the vehicle in any way that might affect its stability or handling, or increase maximum vehicle speed beyond factory specifications. Property damage, personal injury, or death could result.
- Do not shift the Forward/Reverse handle while the vehicle is in motion.

- Stop the vehicle before shifting the Forward/Reverse handle. Engine must be at idle before shifting the Forward/Reverse handle. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.
- Release the accelerator pedal and then depress the brake pedal firmly until the vehicle stops. To avoid unintentionally starting or rolling the vehicle, set the park brake, turn the key switch to OFF, and remove the key when leaving the vehicle.

## KEY SWITCH

The key switch is mounted on the dash to the right of the steering column (**Figure 3, Page 11**). It has three positions, OFF, ON, and START, which are clearly labeled. To start the vehicle, place the Forward/Reverse handle in the NEUTRAL position and turn the key past the ON position to the START position and hold until the engine is running smoothly. Release the key and it will return to the ON position and the engine should idle. The engine will continue to idle until the key is turned to the OFF position. **See following WARNING, CAUTION and NOTE.**

### **⚠ WARNING**

- Moving parts! Keep clear of the engine compartment while the engine is running.

### **⚠ CAUTION**

- Do not “rev” the engine for long periods of time while the Forward/Reverse handle is in the NEUTRAL position. Failure to heed this caution could result in damage to the unitized transaxle.
- Do not shift the Forward/Reverse handle while the accelerator pedal is pressed. Shift the handle only when the vehicle is at a complete stop. Failure to heed this caution could result in damage to the unitized transaxle.

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

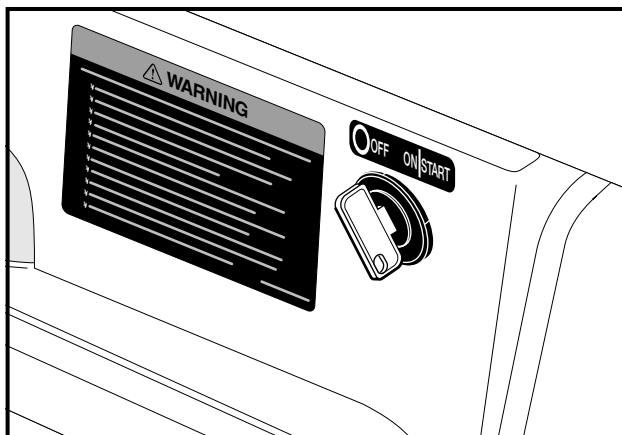


Figure 3 Key Switch

## FORWARD/REVERSE CONTROL

The Forward/Reverse handle is located on the seat support panel (**Figure 4, Page 12**). 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. The engine can be started only when the handle is in the straight up position (NEUTRAL). The engine must be at idle before shifting the Forward/Reverse handle. **See WARNING and CAUTION on page 10.**

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

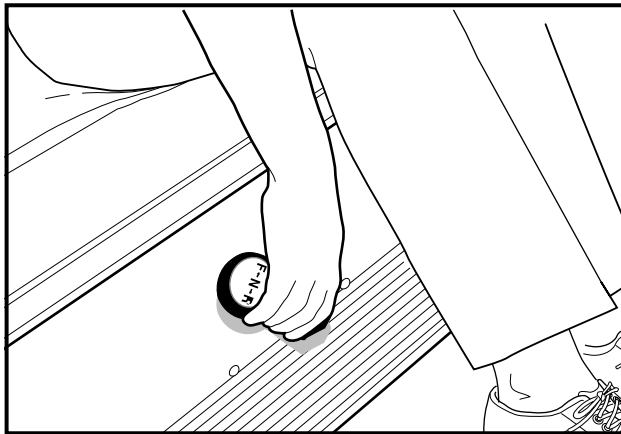


Figure 4 Forward/Reverse Handle



Figure 5 Accelerator and Brake Pedals

## ACCELERATOR PEDAL

The accelerator pedal is the pedal on the right, with the word **GO** molded into it (**Figure 5, Page 12**).

With the engine running and the Forward/Reverse handle in the FORWARD or REVERSE position, vehicle speed will increase as the accelerator pedal is depressed. When the accelerator pedal is released, it will return to the original position and the engine will drop back to idle. **See WARNING and CAUTION on page 10.**

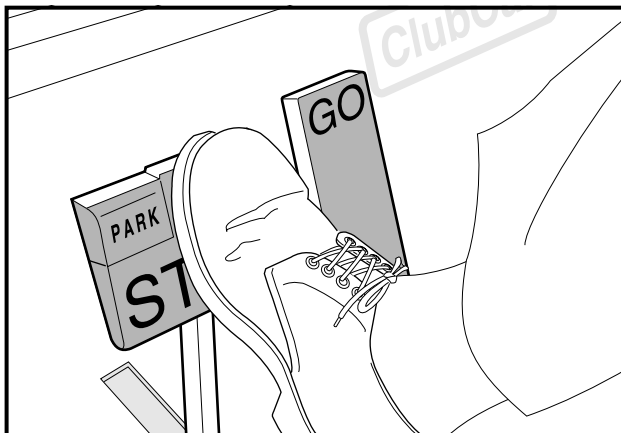


Figure 6 Brake Pedal

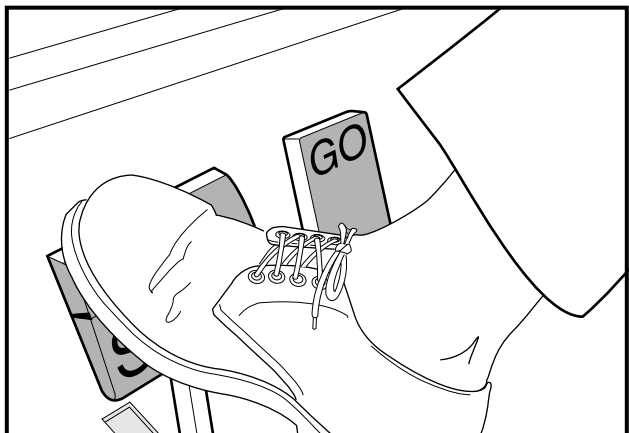


Figure 7 Park Brake Pedal

## BRAKE PEDAL

The brake pedal is the large pedal on the left with the word STOP molded into it (**Figure 5, Page 12**). To slow or stop the vehicle, depress the brake pedal (**Figure 6, Page 12**).

## 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 and the words PARK BRAKE marked on top of it (**Figure 6, Page 12**). To set the park brake, depress the brake pedal firmly and tilt the park brake portion of the pedal forward (**Figure 7, Page 12**).

### **▲ WARNING**

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

## CHOCKE

The choke is located on the seat support panel below and to the left of the driver's left knee (**Figure 8, Page 13**). If the vehicle is hard to start in cool or cold temperatures, activate choke: depress the accelerator pedal halfway to the floor, then pull the choke handle out to activate. Release the handle when the engine begins to run smoothly.

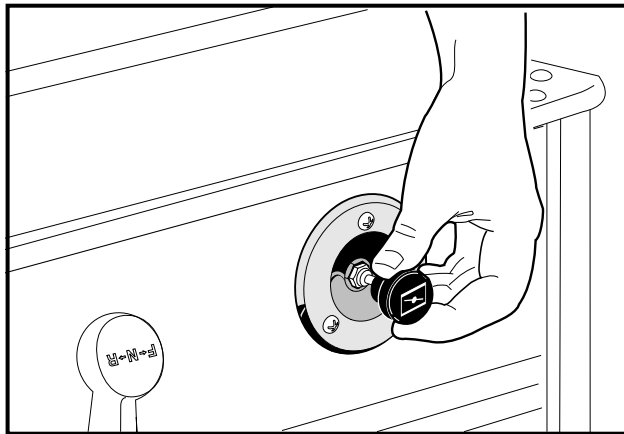


Figure 8 Choke

## OIL LIGHT

The Pioneer 900 is equipped with a low oil warning light, located on the dash panel just above the steering column (**Figure 9, Page 14**). If the oil 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 when the oil warning light remains on. If the oil warning light goes on and off, the vehicle may be driven, but oil should be added at the first opportunity. If the oil level is correct and the light stays on, have a trained technician check the vehicle. **See following CAUTION.**

### **▲ CAUTION**

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

## FUEL/HOUR GAUGE

The Pioneer 900 is equipped with a fuel/hour gauge, located on the dash panel (**Figure 9, Page 14**). The fuel gauge allows the operator to monitor the fuel level in the vehicle. The hour gauge should be used by the trained technician in order to track vehicle usage and determine when periodic service procedures are required. **See Periodic Service Schedule on page 24.**

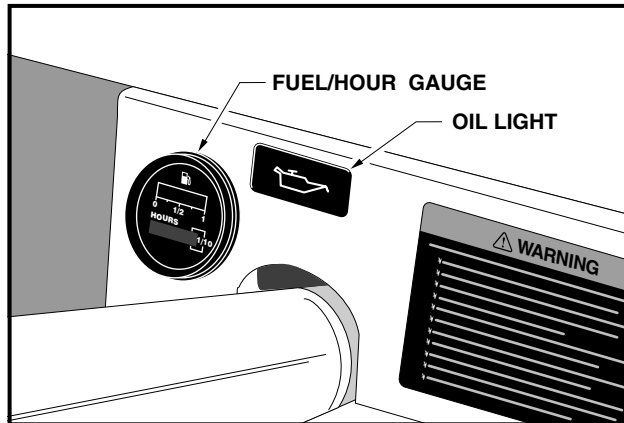


Figure 9 Fuel/Hour Gauge and Oil Light

## HEADLIGHT CONTROL

The headlight control is located on the front dash between the fuel/hour gauge and steering column. Pull the headlight control knob out to turn headlights on and push the knob in to turn headlights off.

**NOTE:** Using the headlights for extended periods of time without the engine running, or with the engine idling will discharge the battery.

## PRE-OPERATION AND DAILY SAFETY CHECKLIST

Each Pioneer 900 vehicle is thoroughly inspected and adjusted at the factory. However, upon receiving your new vehicle, you should become familiar with its controls and operation. Carefully inspect the vehicle to be satisfied that it is in proper working condition before accepting delivery.

Use the following checklist as a guide to inspect your new vehicle. This checklist should also be used daily to ensure vehicle is in proper working condition and in conjunction with the Periodic Service Schedule on page 24. Any problems should be corrected by your Pioneer distributor/dealer or a trained technician only.

- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts and screws are tight. Check all hose clamps for tight fit as well as the starter belt for tightness.
- **Warning decals:** Check to ensure that all warning and operation decals are in place. **See pages 8 and 9.**
- **Tires:** Check for proper tire pressure. **See Vehicle Specifications on page 32.** Visually inspect tires for wear, damage, and proper inflation on a daily basis.
- **Battery:** Before using vehicle for the first time, check electrolyte to ensure it is at the proper level (**Figure 20, Page 29**). 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 on page 27.**



- **Fuel:** Check fuel level. **See Fueling Instructions on page 28.** Check fuel tank, lines, cap, pump, fuel filters, and carburetor for fuel leakage on a daily basis.
- **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 as a guide to inspect your new vehicle and check daily for proper operation. Any problems should be corrected only by your Pioneer distributor/dealer or a trained technician.

- **Forward/Reverse shifter:** Check for proper operation. **See Controls and Indicators on page 10.**
- **Brakes:** Be sure the brakes function properly. When brake pedal is fully depressed under moderate pressure, it should not go more than halfway to the floor, and vehicle should come to a smooth, straight stop. If the brake pedal goes more than halfway to the floor or if the vehicle swerves or fails to stop, have the brake system checked and adjusted as required. Brake adjustment must be maintained so the brake pedal cannot be depressed to the floor under any circumstance.
- **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 depressed.
- **Reverse buzzer:** The reverse buzzer will sound as a warning when the Forward/Reverse handle is in REVERSE.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel.
- **Accelerator:** After starting the engine with the key switch and placing the Forward/Reverse handle in FORWARD, the vehicle should accelerate smoothly to full speed as the accelerator pedal is depressed. When the pedal is released it should return to the original position and the engine should idle. Pioneer vehicles operate at reduced speed in REVERSE.
- **Governor:** Check maximum speed of the vehicle. It should operate at 17 - 19 mph (27 - 31 km/h) on a level surface.
- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle's ride and performance. Have a Pioneer distributor/dealer or a trained technician investigate anything unusual.

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## DRIVING INSTRUCTIONS

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### **WARNING**

- Only licensed drivers should be allowed to drive this vehicle.
- Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.
- No one under the age of 16 years should be allowed to drive the vehicle.
- No more than two people should be on the vehicle at one time.
- Do not allow riders in the cargo bed.
- For night use, the vehicle must be equipped with headlights, taillights, and reflectors.
- The vehicle is not specially equipped for handicapped persons:
  - Be sure all passengers are capable of securing themselves in a moving Pioneer vehicle before allowing them to ride in one.
  - Be sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle.
- Stop the vehicle before shifting the Forward/Reverse handle. Engine must be at idle before shifting Forward/Reverse handle. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.
- To avoid being struck, do not stand in front of or behind the vehicle.
- Do not leave children unattended on vehicle.
- Operate the vehicle from the driver seat only.
- To prevent falls from the vehicle, remain seated and hold on to seat handles at all times. Driver should keep both hands on the steering wheel when the vehicle is in motion.
- To prevent the possibility of serious injury, keep entire body inside the vehicle.
- To prevent overturning the vehicle, drive slowly in turns.
- To prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 20% incline.
- Avoid stopping a loaded vehicle on a hill. If a loaded vehicle must be stopped on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could result in overturning the vehicle.
- To avoid possible injury to inattentive passengers and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.
- To 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 neither designed nor intended for street use and should not be licensed for use on public roads.
- The vehicle should be driven in only specified areas by trained drivers.
- Do not drive while under the influence of alcohol, drugs, or medications.
- Use brakes to reduce speed when coasting downhill.
- Never attempt jumps.

No one should drive the vehicle without first being instructed in the proper operation and use of vehicle controls. An experienced operator should accompany each first-time driver on a test drive before allowing the driver 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. Read safety warnings on dash and vehicle loading information located above pedals.
2. Be sure load, if any, is secure.
3. Study and understand controls.
4. Be sure passenger is seated and holding on to armrest. Driver should have both hands on the steering wheel.
5. Make sure wheels are turned in desired direction and nothing is in your path.
6. Make sure the Forward/Reverse handle is in the NEUTRAL position.
7. Depress and hold the brake pedal.
8. Turn the key all the way to the START position and hold, activating the choke as necessary, until the engine is running smoothly. The engine will idle in neutral.
9. While keeping the brake pedal engaged, select direction of travel by placing shift handle in desired position (F = forward or R = reverse). Engine must be at idle before moving the shift handle. A buzzer will sound as a warning when the Forward/Reverse handle is in REVERSE.
10. Release the brake pedal completely, and then slowly depress the accelerator pedal. The park brake will release automatically and the vehicle will start to move. As the accelerator is depressed, speed will increase until full speed is reached. **See following WARNING.**

### **WARNING**

- Operator must control vehicle speed when going downhill.
- Never 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.
- Depress the brake pedal as necessary and depress the accelerator pedal partially when descending a hill. With the accelerator pedal partially depressed, the governor will cause the engine to assist the brakes in controlling downhill speed.

## STOPPING THE VEHICLE

### **WARNING**

- Driving through water may affect the brakes. After driving through water, check effectiveness of the brakes by gently depressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to depress 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 stop the vehicle, release the accelerator pedal and depress the brake pedal until the vehicle comes to a complete stop.

## PARKING AND LEAVING THE VEHICLE

1. After stopping the vehicle, firmly depress park brake pedal until it locks. **Make sure it is fully engaged.** This will prevent the vehicle from rolling.
2. Turn the key switch to OFF and place the Forward/Reverse handle in the NEUTRAL position. Remove the key and turn the fuel shut-off valve to closed (OFF) position when the vehicle is not in use (**Figure 12, Page 23**). See also **Figure 18, Page 28**.

## BED LATCH

Read **DANGER** and **WARNING** on page 7.

The vehicle is equipped with a bed latch on the driver side of the vehicle (**Figure 10, Page 18**) and an automatically engaging prop rod (**Figure 11, Page 18**). To lift the bed, pull the latch handle toward the rear of the vehicle and lift the bed. To close the bed, disengage the prop rod and gently lower the bed until the bed latch engages. **DO NOT** drop the bed. See following **WARNING** and **NOTE**.

### **⚠ WARNING**

- Keep hands clear of crush area between bed and seat back support.

**NOTE:** The vehicle is equipped with an automatically engaging prop rod (**Figure 11, Page 18**), unless equipped with the hydraulic or electric bed lift accessory.

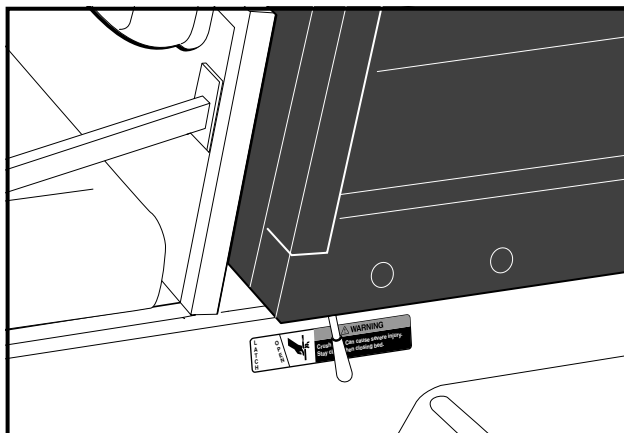


Figure 10 Bed Latch

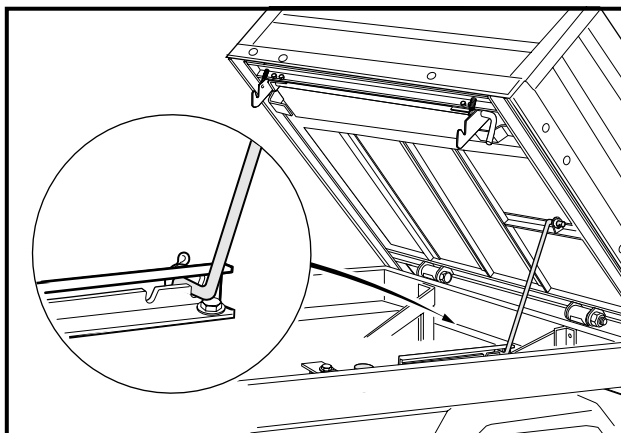


Figure 11 Prop Rod

## PROP ROD

Read **DANGER** and **WARNING** on page 7.

The vehicle is equipped with an automatically engaging prop rod and prop rod track on the driver side of the rear body (**Figure 11, Page 18**). When pulling the bed latch handle and lifting the bed, the prop rod will come to rest in one of the notches in the prop rod track. See following **DANGER** and **WARNING**.

## **DANGER**

- Use caution when working under bed. Be sure prop rod is secure. Otherwise the bed will fall, resulting in severe personal injury or death.

## **WARNING**

- Do not disengage prop rod until all persons are clear of cargo bed area.
- Do not drop tilt bed; lower gently and keep entire body clear. Failure to follow these instructions could result in severe injury.
- Keep hands clear of crush area between bed and seat back support.

To lower the bed, lift the bed so that the prop rod is no longer supported in one of the track notches. Push the prop rod toward the front of the vehicle to free it from the track notch and gently lower the bed. Do not drop the bed.

## **LOADING AND UNLOADING**

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### **WARNING**

- Firmly engage the park brake before loading the vehicle.
- Do not allow riders in the cargo bed.
- Vehicle load and speed must be reduced when driving up or down slopes or on uneven terrain.
- Do not exceed the rated capacity of the vehicle. Rated capacity is for level surfaces only.
- Overloading can affect vehicle handling or cause component failure, resulting in loss of control of vehicle and possible severe personal injury.
- Reduce speed and avoid sudden stops when backing up. Failure to do so may cause the vehicle to overturn or flip over backwards.
- Do not load the tailgate. The tailgate should be in the upright position and latched securely while the vehicle is in motion.
- To avoid shifting the vehicle load and possibly overturning the vehicle, avoid sudden starts, sudden stops, and abrupt turns. The cargo's center of gravity may affect the handling, steering and braking of the vehicle
- To prevent cargo from shifting and possibly injuring a passenger or affecting the vehicle's handling, make sure cargo is well secured.
- Avoid top-heavy loads. The center of gravity of a load should never exceed 15 inches (38 cm) above the bottom of the cargo bed.
- Always unload cargo bed before raising vehicle with a lift, hoist, or jack.
- The cargo's center of gravity may affect the handling, steering and braking of the vehicle.
- Avoid stopping on a hill when loaded. If you must stop on a hill, avoid sudden starts, or rolling backwards and stopping suddenly. Failure to heed this warning may cause vehicle to overturn, possibly resulting in severe personal injury.

Center and secure cargo as far forward as possible in the cargo bed. Do not overload the vehicle. **See the following chart for vehicle capacities.**

	Pioneer 900
<b>Maximum payload capacity</b> (Cargo bed load and gross trailer weight)	500 lb. (227 kg)
<b>Maximum vehicle capacity</b> (Cargo load, passengers, and gross trailer weight)	900 lb. (408 kg)
<b>Trailer tongue weight</b>	150 lb. (667 N)

## TOWING WITH THE VEHICLE

### **WARNING**

- Never tow a vehicle or trailer on public streets or highways.
- Normal vehicle operating speed should be reduced when towing.
- Extreme caution should be used when towing.
- Do not allow riders in the vehicle or trailer being towed.
- Total vehicle capacity, including the vehicle load rating and the gross weight of the vehicle or trailer being towed, should not exceed the weight previously specified.
- 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 vehicle to overturn, possibly resulting in severe personal injury.

Because towing another Pioneer vehicle or a trailer can have adverse effects on vehicle handling, be especially cautious when towing with a Pioneer vehicle. **See the preceding chart for vehicle capacities.**

Parking the vehicle with a trailer on a hill should be avoided. If you must park on a hill, apply the park brake and have someone chock the tires of the trailer. Slowly release the park brake to allow the chocks to absorb the load of the trailer, then firmly set the park brake.

## TRANSPORTING ON A TRAILER

### **WARNING**

- Turn fuel shut-off valve to closed (OFF) position (Figure 12, Page 23).
- Do not allow riders in the trailer 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.
- Reduce normal driving speed when transporting a vehicle or trailer.
- For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.

- Never tow a Pioneer vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.
- The vehicle to be transported should be tied securely to the trailer, with the Forward/Reverse handle in NEUTRAL, the key switch OFF, and the park brake firmly engaged.
- Because of the added length of the trailer, use caution when making turns.
- Never transport the vehicle on a trailer with a load in the vehicle cargo bed.
- Remove the vehicle windshield before transporting on a trailer.

Use an approved trailer that has a load rating of at least 2000 lb. (909 kg) per vehicle being transported.

**NOTE:** For example, a two-car trailer should be rated at  $2 \times 2000 \text{ lb.} = 4000 \text{ lb.}$  ( $2 \times 909 = 1818 \text{ kg}$ ).

If the vehicle must be transported over long distances or on public highways, it should be transported on an approved trailer observing all the warning precautions.

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## STORAGE

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Read **DANGER** and **WARNING** on page 7.

### **DANGER**

- Never attempt to drain gasoline when the engine is hot or while it is running.
- Be sure to clean up any spilled gasoline before operating the vehicle.
- Store gasoline in an approved gasoline container only. Store in a well-ventilated area away from sparks, open flames, heaters or heat sources.
- Keep gasoline out of the reach of children.
- Do not siphon gasoline from the vehicle.

### **WARNING**

- Turn the key switch OFF, 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 fuel shut-off valve to closed (OFF) position (Figure 12, Page 23).
- Do not attempt to charge frozen batteries or batteries with bulged cases. Discard the battery. Frozen batteries can explode.

### **CAUTION**

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

## PREPARING THE VEHICLE FOR EXTENDED STORAGE

1. Unload the vehicle so that tires are supporting only the weight of the vehicle.
2. Batteries should be clean and free of corrosion. Wash tops and terminals of batteries with a solution of baking soda and water (1 cup (237mL) baking soda per 1 gallon (3.8 L) of water). Rinse solution off batteries. Do not allow this solution to enter the batteries. Be sure terminals are tight. Let the terminals dry and then coat them with Battery Terminal Protector Spray (CCI 1014305).

3. 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.
4. Drain carburetor and seal the fuel tank.
  - 4.1. Place the Forward/Reverse handle in the NEUTRAL position. Turn the fuel shut-off valve to the closed (OFF) position (**Figure 12, Page 23**) and run the engine until fuel remaining in the carburetor and fuel lines is depleted and the engine stalls.
  - 4.2. Loosen but do not remove the carburetor drain screw and drain fuel remaining in bowl into a small container, then pour the fuel from the container into vehicle fuel tank. Tighten the carburetor drain screw.
  - 4.3. Fill fuel tank to about 1 inch (2.5 cm) from top of fuel tank and, following manufacturer's directions, add a commercially available fuel stabilizer (such as Sta-Bil®).
  - 4.4. Disconnect fuel vent line from fuel tank vent nipple.
  - 4.5. Plug the fuel tank vent nipple so that it is air tight. We recommend using a slip-on vinyl cap.
5. Disconnect battery cables, negative (-) cable first.
6. To protect the engine, remove the spark plug and pour 1/2 ounce (14.2 mL) of SAE 10 weight oil into engine through the spark plug hole. Rotate engine crankshaft by hand several times and then install spark plug.
7. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 32.**
8. Lubricate front suspension and do all other semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 26.**
9. Thoroughly clean front body, rear body, seats, cargo bed, engine compartment, and underside of vehicle.
10. Do not engage the park brake. Chock the wheels to prevent the vehicle from rolling.

## RETURNING THE STORED VEHICLE TO SERVICE

1. Connect battery cables, positive (+) cable first.
2. Restore fuel system to operation.
  - 2.1. Remove plug from the fuel tank vent nipple and open the fuel shut-off valve (**Figure 13, Page 23**). Make sure the valve is fully open. A partially closed fuel shut-off valve (**Figure 14, Page 23**) combined with the use of the choke can result in a fouled spark plug and engine failure.
  - 2.2. Place the Forward/Reverse handle in the NEUTRAL position. Crank the engine until fuel is pumped into the carburetor and fuel lines and the engine starts. Turn the engine off. **See following NOTE.**

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

3. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 32.**
4. Perform the Pre-Operation and Daily Safety Checklist on page 14.



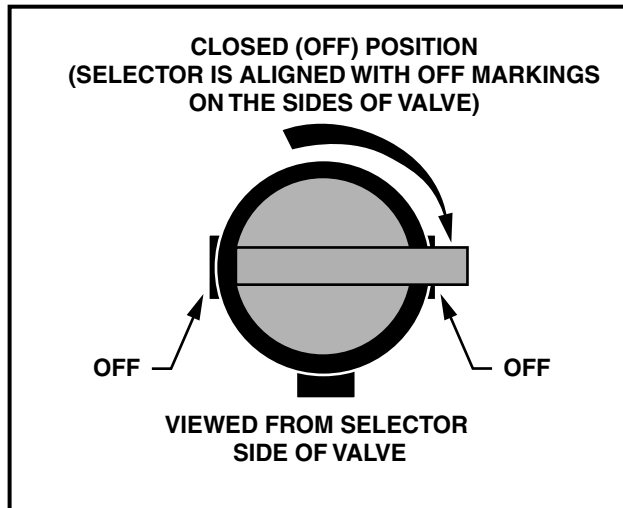


Figure 12 Fuel Shut-off Valve – Closed Position

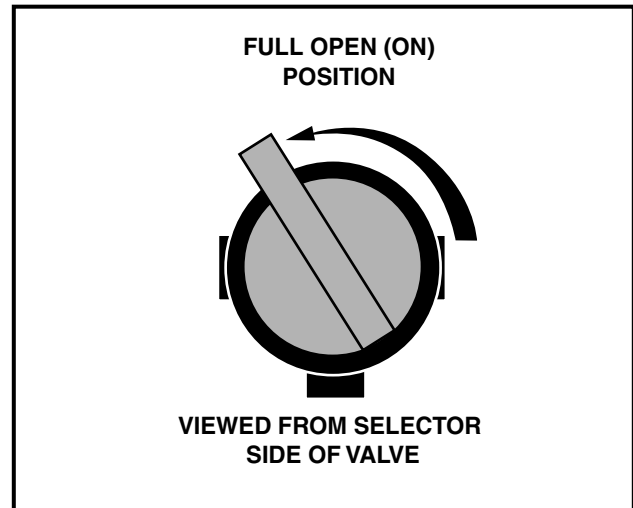


Figure 13 Fuel Shut-off Valve – Open Position

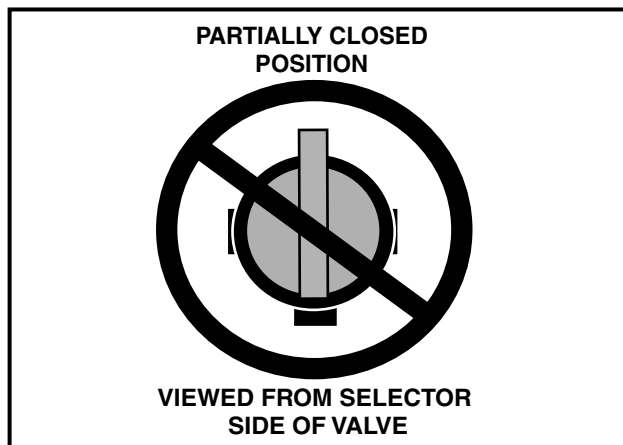


Figure 14 Incorrect Fuel Shut-off Valve Setting

## MAINTENANCE

Read **DANGER** and **WARNING** on page 7.

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 result from neglect. Use the Pre-Operation and Daily Safety Checklist on page 14 and the following Periodic Service Schedule 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 Pioneer distributor/dealer to perform all repairs and semi-annual and annual periodic service. **See following WARNING.**

## **WARNING**

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- 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.
- Do not wear loose clothing or jewelry, such as rings, watches, chains, etc., when servicing the vehicle.
- Turn key switch to OFF, remove the key, place the Forward/Reverse handle in the NEUTRAL position, and chock the wheels prior to servicing.
- Moving parts – Do not attempt to service vehicle while the engine is running.
- Do not work on vehicle powertrain or under the cargo bed when it is loaded.
- Turn fuel shut-off valve to closed (OFF) position (Figure 12, Page 23).
- Hot! Do not attempt to service hot engine or exhaust system. Attempting to do so could cause severe burns.
- Do not remove prop rod or close bed until all persons are clear of the bed area. Lower the bed gently, keeping entire body clear. Do not drop the bed. Failure to follow these instructions could result in severe personal injury.
- A hydraulic bed lift system is under pressure. Wear a face shield and use extreme caution when servicing it.

## **PERIODIC SERVICE SCHEDULE**

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Read DANGER and WARNING on page 7.

## **WARNING**

---

- Service, repairs, and adjustments must be made per instructions in the Pioneer 900 Maintenance and Service Manual.

**NOTE:** *If the vehicle is constantly subjected to heavy use or severe operating conditions, the preventive maintenance procedures should be performed more often than recommended in the Periodic Service and Lubrication Schedule.*

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

PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	SERVICE	
Monthly service by owner or trained technician	Engine	Check engine oil level; change if necessary. <b>See Periodic Lubrication Schedule on page 26.</b>
		Check engine cooling air intake; visually inspect unshrouded area around engine exhaust for grass and debris and clean if necessary.
	Tires	Check air pressure and adjust as necessary. <b>See Vehicle Specifications on page 32.</b>
	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)	Battery	Clean terminals and wash dirt from casing; check electrolyte level. <b>See Battery on page 29.</b>
	Front wheel alignment and camber	Check and adjust if necessary. <b>See Section 7 – Steering and Front Suspension in the appropriate maintenance and service manual.</b>
	Electrical wiring and connections	Check for tightness and damage.
	Brake system	Check brake shoes; replace if necessary. <b>See Section 6 – Wheel Brake Assemblies in the appropriate maintenance and service manual.</b>
		Lubricate brake slides per Lubrication Schedule. <b>See Section 6 – Wheel Brake Assemblies in the appropriate maintenance and service manual.</b>
Check brake cables for damage; replace if necessary.		
Annual service by trained technician only (every 100 hours of operation)	Engine	Check for leaks around gaskets, fill plugs, etc.
		Inspect, clean and gap spark plug; replace if necessary.
	Engine air intake system	Check air filter element; clean or replace if necessary.
		Check clamps for tightness; check hose for cracks.
General vehicle	Check for loose hardware and tighten if necessary.	
Two year service by trained technician only (every 200 hours of operation)	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			
REGULAR INTERVAL	SERVICE	PLACE*	RECOMMENDED LUBRICANT
Semiannually by owner or trained technician (every 50 hours of operation)	Brake pedal shaft bearings	1	Dry Moly Lube (CCI 1012151)
	Brake linkage and pivots	2	Dry Moly Lube (CCI 1012151)
	Accelerator push rod pivots, mounts, and shifter cable pivots	3	Dry Moly Lube (CCI 1012151)
	Front suspension (5 fittings)	4	Chassis Lube (EP NLGI Grade 2)
	Brake slides	5	Dry Moly Lube (CCI 1012151)
Annually by trained technician only (every 100 hours of operation)	Check/fill unitized transaxle to plug level	6	27 oz. (.8 liter) 80-90 WT. API Class GL-3 or 80-90 WT. AGMA Class EP Gear Lube
	Inspect front wheel bearings (Repack as necessary)	7	Chassis Lube (EP NLGI Grade 2)
First change 100 hours – additional change every 200 hours of operation or annually, whichever comes first.	Change engine oil and oil filter	8	32 oz. (.95 liter) without filter; 38 oz. (1.12 liters) with filter. See Oil Viscosity on page 27.

\*See Figure 15, Page 26.

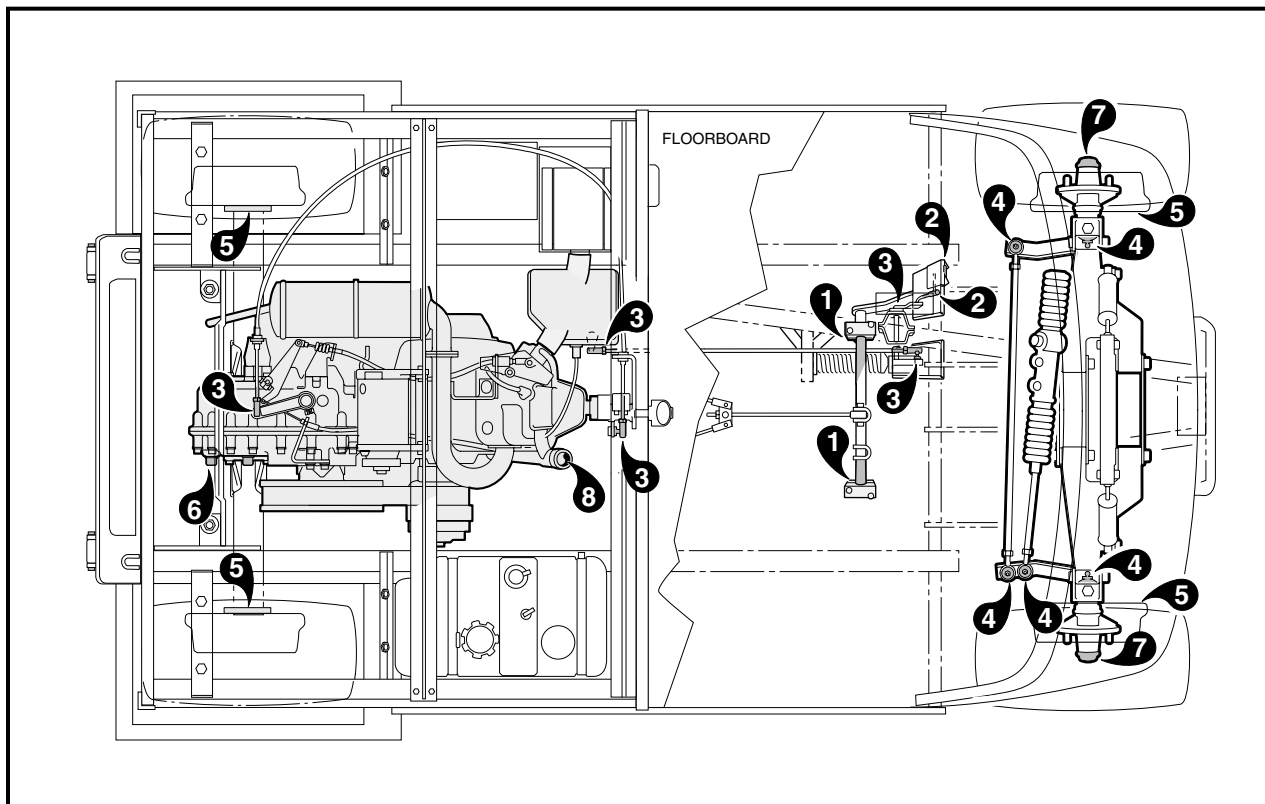


Figure 15 Lubrication Points

## ENGINE OIL

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

1. Remove the oil level dipstick from the oil filler tube and wipe oil from stick (**Figure 16, Page 27**). 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 and immediately remove it again.
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).
4. Reinsert dipstick into the oil filler tube.

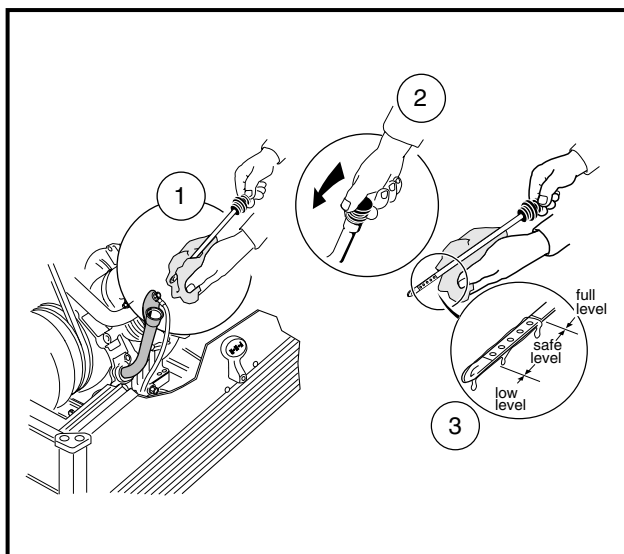


Figure 16 Engine Oil Level

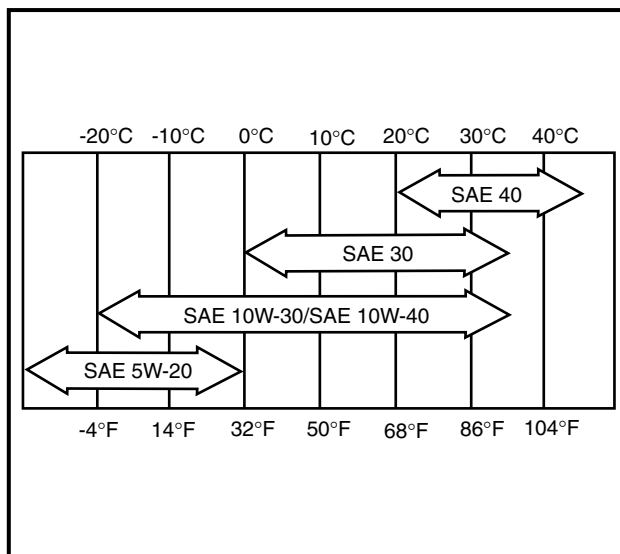


Figure 17 Oil Viscosity Chart

## OIL VISCOSITY

Choose the viscosity according to the temperature as shown in (**Figure 17, Page 27**).

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

## FUELING INSTRUCTIONS

Read **DANGER** and **WARNING** on page 7.

### **⚠ DANGER**

- Turn key switch to the OFF position before fueling.
- Never pour gasoline into the fuel tank when the engine is hot or while it is running.
- 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 gas tank is properly vented as shown (Figure 18, Page 28).
- To avoid the possibility of fire, clean up any spilled gasoline before operating the vehicle.

### **⚠ CAUTION**

- To allow for expansion, do not fill higher than one inch (2.54 cm) 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 on page 21 of this manual.

1. Lift and remove seat bottom.
2. The fuel tank is located on passenger side of vehicle. Remove fuel cap and fill the fuel tank with fresh unleaded gasoline only. **See preceding DANGER, CAUTION, and NOTE.**
3. Replace fuel cap on tank. Make sure cap is tightened securely.
4. Replace seat bottom.

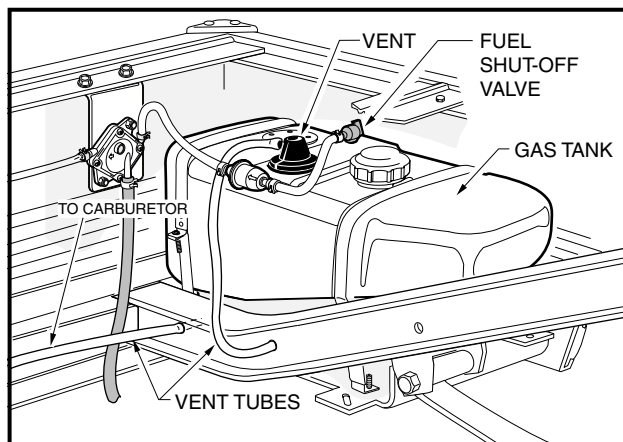


Figure 18 Fuel Tank

## BATTERY

Read **DANGER** and **WARNING** on page 7.

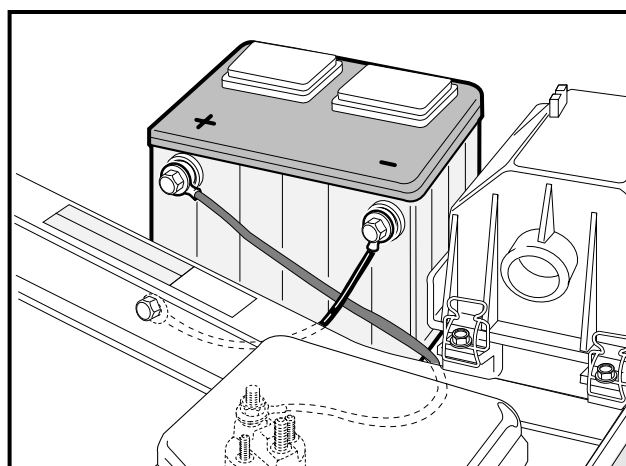
### **⚠ DANGER**

- **Battery – Explosive gases! Do not smoke! Keep sparks and flames away from vehicle and service area.**
- **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.**
- **Poison! Contains acid! Causes severe burns – Avoid contact with skin, eyes, or clothing.**  
Antidotes:
  - **External: Flush with water for 15 minutes. 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.**

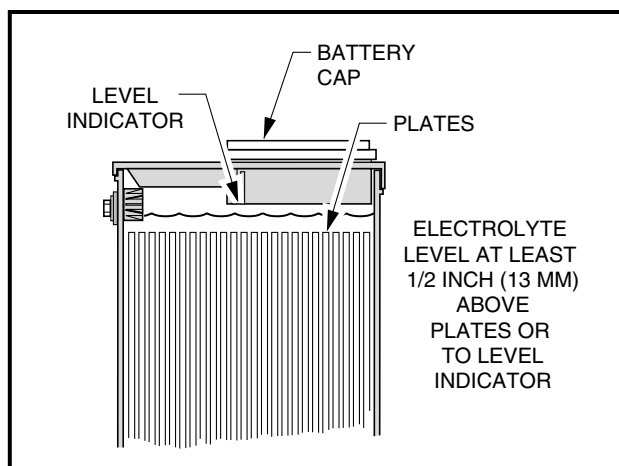
### **⚠ WARNING**

- **Do not jump start the vehicle. To charge the battery, use an automotive-type 12-volt charger rated at 10 amps or less.**

The battery in a Pioneer gasoline vehicle is a 12-volt, low-maintenance battery that requires infrequent watering (**Figure 19, Page 29**).



**Figure 19 Battery**



**Figure 20 Battery Electrolyte Level**

Any corrosion around the positive (+) or negative (-) terminals should be washed off 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 the battery. Do not allow this solution to enter the battery. Be sure terminals are tight (battery terminals should be tightened to 20 ft-lb (27.1 N·m)). Let the terminals dry and then spray them with Battery Terminal Protector Spray (CCI 1014305). **See following CAUTION.**

## **CAUTION**

- **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.**

Be sure battery clamp is properly tightened. Tighten to 12 ft-lb (16.3 N·m). A loose 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).

## **CLEANING THE VEHICLE**

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The vehicle is equipped with an ArmorFlex<sup>®</sup> front body, an all-aluminum rear body, and a powder-coated steel cargo bed. Use a commercially available automotive cleaning solution with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate. To remove oxidation or discoloration from aluminum, use a commercially available aluminum cleaner paste and fine grade (No. 00) steel wool.

Club Car 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.

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 Section 4 of the maintenance and service manual. **See following NOTE.**

***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. 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**

- **Custom cab assemblies, canopy tops, weatherproof enclosures, and windshields will not protect occupants from flying objects.**
- **If the vehicle is equipped with an electric powered or hydraulic lift bed, remove the bed before servicing the bed lift system.**



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## ACCESSORY EQUIPMENT

- Light bar with 2 halogen work lights
- Winch: rated 1500 lb. (680.4 kg), remote operated
- Nerf bars
- Turf tires
- White canopy top
- Windshield: one-piece or fold-down, tinted high-impact modified acrylic (requires canopy top)
- Cab
- Comfort cab heater
- 3-sided enclosure: white or gray (requires canopy top)
- Electric lift or hydraulic dump
- Glove box with lock
- Pintle hitch
- Aluminum tool box
- Bed mat
- Exhaust spark arrestor
- Taillights
- Turn signals
- Horn

## ELECTRIC WINCH ACCESSORY

If your vehicle is equipped with an electric winch, read and follow all manufacturer safety warnings and instructions in the winch operator manual, as well as the following WARNING and CAUTION statements. Make sure a winch warning decal is affixed to the vehicle on the seat support panel next to the receptacle for the remote operation switch. **See Vehicle Feature Identification on pages 8 and 9.**

The winch kit available from Club Car includes a remote operation switch that enables the operator to move away from the vehicle and cable. **See following WARNING and CAUTION.**

### **WARNING**

- **Before beginning a winch operation:**
  - Turn key switch OFF, put Forward/Reverse handle in NEUTRAL, and engage the park brake.
  - Do not use winch while persons are seated on the vehicle.
  - Stand to the side and away from the vehicle to operate winch.

### **CAUTION**

- Use of the winch for an extended period of time could discharge the battery. Keep winch operations as short as possible, and drive the vehicle for several minutes after the winch operation to recharge the battery.

## SUBSEQUENT OWNER REGISTRATION

In the event a vehicle is bought as a used vehicle from another individual or from a dealer, 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 of the vehicle to Club Car, Inc., P.O. Box 204658, Augusta, Georgia 30917-4658, Attention: Vehicle Registration.

## VEHICLE SPECIFICATIONS

SPECIFICATIONS	
<b>POWER SOURCE</b>	
<b>Engine:</b> 4-cycle OHV, 351 cc, 11 hp rated, 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 (11.8:1 forward, 17.1:1 reverse)	•
<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>Torque converter:</b> Automatic, variable-speed, dry type	•
<b>STEERING/SUSPENSION/BRAKES</b>	
<b>Steering:</b> Self-adjusting rack and pinion	•
<b>Suspension:</b> Front and rear multi-leaf springs with dual hydraulic shocks	•
<b>Brakes:</b> Mechanical brake cable system to manually adjusted drum brakes on each wheel Park brake releases automatically. Self-adjusting multi-latch ratchet and pawl	•
<b>BODY/CHASSIS</b>	
<b>Frame/Chassis:</b> Twin I-Beam welded aluminum	•
<b>Side and rear body:</b> All aluminum with a powder-coated steel box bed	•
<b>Front body:</b> ArmorFlex®	•
<b>Front body finish:</b> Matched paint finish over molded-in color	•
<b>Tires:</b> Heavy Duty All Terrain: tubeless, 6-ply rated Turf: tubeless, 4-ply rated	22 x 11.00 x 10 in. 23 x 10.50 x 12 in.
<b>DIMENSIONS/WEIGHT</b>	
<b>Overall length</b>	120.4 in. (305 cm)
<b>Overall width</b>	51.3 in. (130 cm)
<b>Overall height (at steering wheel)</b>	51.1 in. (129 cm)
<b>Overall height (at light bar)</b>	75.3 in. (191 cm)
<b>Wheelbase</b>	78.5 in. (199 cm)
<b>Ground clearance (under differential)</b>	6.4 in. (16 cm)
<b>Ground clearance (under foot platform)</b>	11.0 in. (27.9 cm)
<b>Front wheel tread</b>	36.5 in. (92 cm)
<b>Rear wheel tread</b>	41.3 in. (104 cm)
<b>Weight (standard vehicle with off-road tires (dry))</b>	937 lb. (425 kg)
<b>Specifications continued on next page...</b>	

<b>SPECIFICATIONS</b>	
<b>Forward speed</b>	17 - 19 mph (27 - 31 km/h)
<b>Governed RPM</b>	3100 ±30
<b>Curb clearance circle</b> (diameter)	21 ft.-8 in. (660 cm)
<b>Turning radius</b> (per SAE J 695)	130 in. (330 cm)
<b>Load bed height</b>	29.8 in. (75 cm)
<b>Load bed size</b> (box bed inside dimensions)	48.0 x 49.8 x 10.9 in. (121.9 x 126 x 28 cm) (15.3 cubic feet)
<b>Floorboard height</b>	16.0 in. (40 cm)
<b>Seat height</b> (at seat bottom)	28.0 in. (71 cm)
<b>Vehicle rated capacity</b> (level surface only)	900 lb. (408 kg)
<b>Bed load capacity</b> (level surface only)	500 lb. (227 kg)
<b>Standard seating capacity</b>	2
<b>LIQUID CAPACITIES</b>	
<b>Engine crankcase without filter</b>	32 oz. (.95 liters)
<b>Engine crankcase with filter</b>	38 oz. (1.12 liters)
<b>Unitized transaxle</b>	27 oz. (.8 liters)
<b>Fuel tank</b>	7 gallons (26.5 liters)
<b>TIRE PRESSURE</b>	
<b>Off-road tread</b>	14-18 psi (.97-1.24 Bars)
<b>Turf tread</b>	18-20 psi (1.24-1.38 Bars)

## REAR FENDER INSTALLATION

1. Unload the cargo bed.
2. Open the cargo bed and engage the prop rod.

### **⚠ WARNING**

- Use caution when working under bed. Be sure prop rod is secure. Otherwise the bed could fall, resulting in severe personal injury or death.

**NOTE:** The rear fender with the warning decal should be installed on the passenger side of the vehicle. The decal should be plainly visible when the cargo bed is raised.

3. Position a fender in the vehicle, align the hole in the fender with the slot in the frame as shown and install bolt (1), large flat washers (2), and lock nut (3) (**Figure 21**). Finger-tighten only at this time.

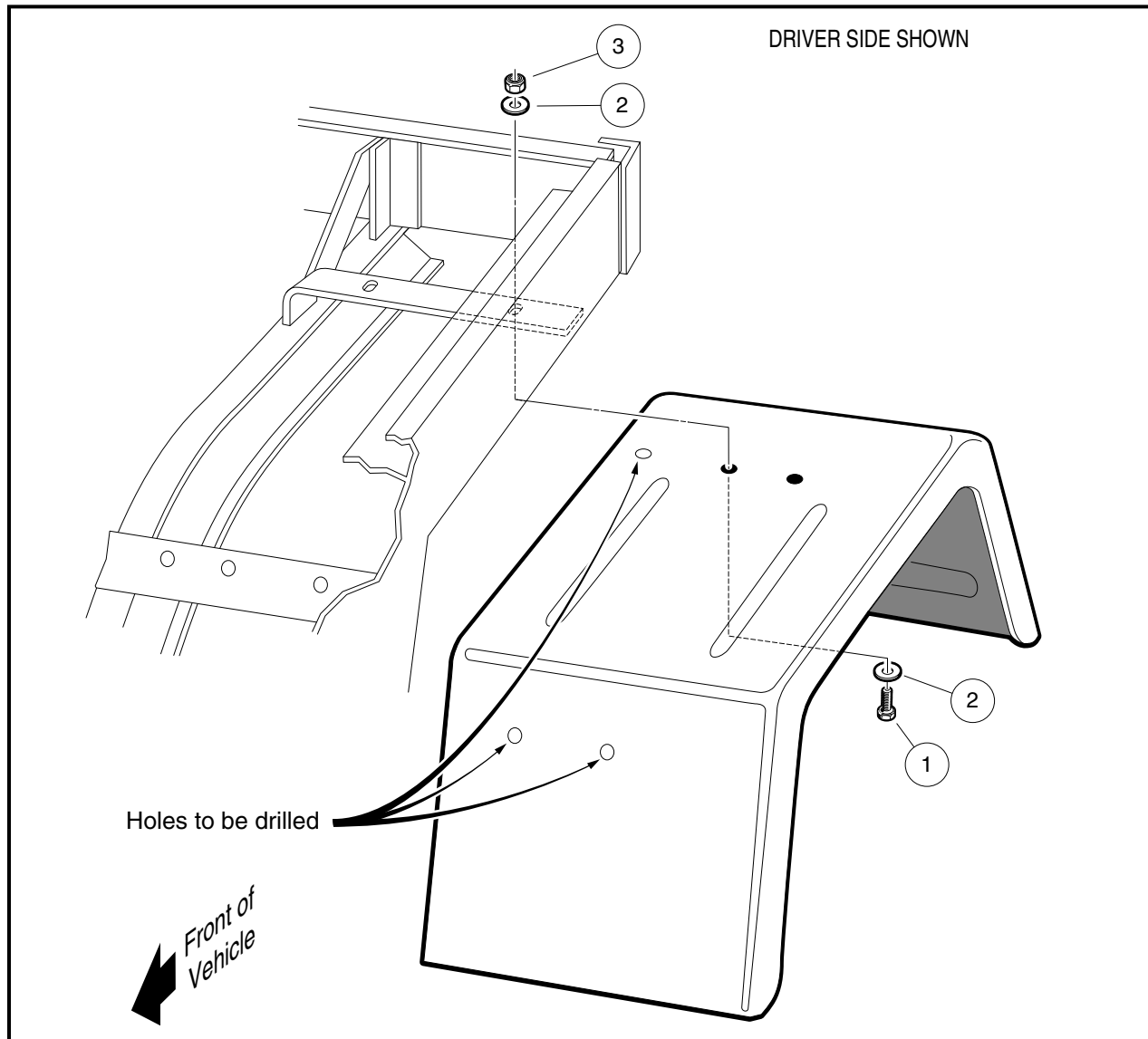
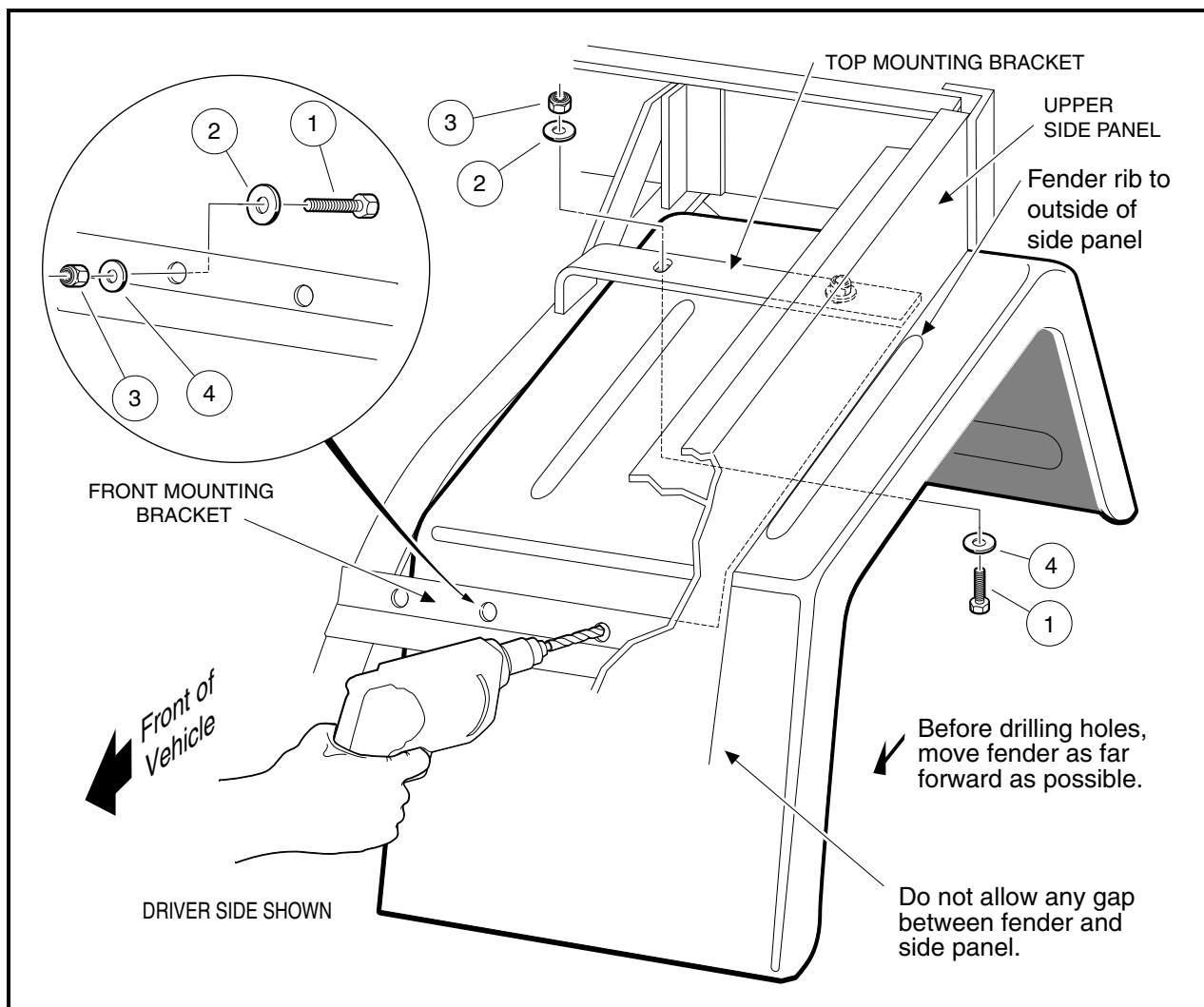


Figure 21 Install Hardware in Fender Hole

4. Make sure fender is correctly aligned in the vehicle by placing the outer fender rib to the outside of the upper side panel, and as far forward as possible, leaving no gap between the fender and side panel (**Figure 22**).
5. Drill three 5/16 inch holes through the fender: Two through the outside holes in the front mounting bracket, and one through the slotted hole in the top mounting bracket (**Figure 22**).
6. Loosely install bolts (1), large flat washers (2), small flat washers (4), and lock nuts (3) in the front mounting bracket holes.
7. Install bolt (1), small flat washer (4), large flat washer (2) and lock nut (3) in the top mounting bracket hole as shown (**Figure 22**).
8. Tighten mounting hardware at both front mounting bracket holes, then both top mounting bracket holes, to 35 in-lb (4.0 N·m).
9. Repeat steps 3-8 for the other rear fender.
10. Lower cargo bed.



**Figure 22 Drill Additional Mounting Holes**

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## WHEEL AND TIRE INSTALLATION

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**NOTE:** Upon vehicle delivery, the shipping wheel and tire assemblies must be replaced by the standard Pioneer 900 wheel and tire assemblies, which are delivered in the vehicle cargo bed.

*Do not remove the warning tag attached to the steering wheel until the shipping wheel and tire assemblies have been replaced by standard Pioneer 900 wheel and tire assemblies.*

Unlike some other vehicles, the Pioneer 900's front and rear wheels are NOT interchangeable. The rear wheels have a different offset than do the front wheels; the rear wheels must be installed with the deeper offset facing out.

A rectangular sticker on each wheel designates its correct location on the vehicle.

LF —Left Front (driver side)

RF—Right Front (passenger side)

LR—Left Rear

RR—Right Rear

Standard Pioneer 900 tires (off-road) are directional and must be installed according to the directional arrow mark on each tire, (arrow indicates forward rotation of tire) or tread performance will be severely compromised. The optional turf tire is not directional, and installation is dictated only by correct wheel position, not tire direction.

1. Slightly loosen the lug nuts on all four wheels.
2. Raise one end of the vehicle until the tires are off the ground by approximately six inches. **See following WARNING.**

### **WARNING**

- **Lift only one end of a vehicle at a time. Before lifting, set the park brake when lifting the front of the vehicle, unload the cargo bed, and chock the wheels that remain on the floor. Use a suitable lifting device (chain hoist or hydraulic floor jack) with 1000 lb. (454 kg) minimum lifting capacity. Do not use lifting device to hold vehicle in raised position. Use approved jack stands of proper weight capacity to support vehicle.**
3. Remove the lug nuts and the wheel.
  4. Install the correct wheel and tire assembly and tighten lug nuts (using a crisscross pattern) until they are snug. **Arrow indicates forward rotation of tire.**
  5. Repeat steps 3 and 4 for the other side of the vehicle.
  6. Lower the vehicle to the ground and finish tightening lug nuts (using a crisscross pattern) to 55 ft-lb (74.6 N·m).
  7. Repeat steps 2 through 6 for the other end of the vehicle.

# CLUB CAR® LIMITED TWO YEAR WARRANTY FOR 2002 PIONEER VEHICLES

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## 1. WARRANTY:

CLUB CAR, INC., ("CLUB CAR") hereby warrants to the Original Retail Purchaser that its new 2002 Model Pioneer Vehicles purchased from CLUB CAR or an authorized dealer shall be free from defects in material and workmanship under normal use and service for the periods stated below, subject to the provisions, limitations and exclusions contained in this limited warranty.

**LIMITED TWO YEAR / 2000 HOUR WARRANTY:** The engine assembly, unitized transaxle assembly, main frame assembly, hydraulic dump kit and Custom Cab assembly and doors are warranted with respect to parts and labor against defects in material and workmanship for a period of two years or 2000 hours of operation, whichever first occurs, from the date of purchase.

**LIMITED ONE YEAR / 1000 HOUR WARRANTY:** All remaining components of the vehicle not specified otherwise and all original equipment options and accessories supplied by CLUB CAR are warranted with respect to parts and labor against defects in material and workmanship for a period of one year or 1000 hours of operation, whichever first occurs, from the date of purchase.

This limited warranty covers material, workmanship and repair labor cost as to those items specifically listed above for the periods specified. Such repair labor shall be performed only by CLUB CAR, its authorized dealers, or a service agency approved by CLUB CAR.

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.

## 2. EXCLUSIONS:

Excluded from any CLUB CAR warranty are all fuses, filters, decals (except safety decals), spark plugs, light bulbs, lubricants, trim pieces, seats, routine wear items such as brake shoes, belts, brushes, bushings, engine mounts, mats and pads, maintenance adjustments, cosmetic deterioration, and items which deteriorate or fail due to exposure or ordinary wear and tear. Also excluded from any CLUB CAR warranty is damage to a vehicle or component resulting from a cause other than a defect including unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, overloading, accident, alteration, abuse or neglect.

Transportation expenses for warranty services are also excluded from this warranty.

## 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. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE 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.

## 4. 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 of the vehicle or component thereof that CLUB CAR deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new vehicle 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 vehicle or component thereof at no cost to the purchaser during the applicable limited warranty period. If CLUB CAR elects to repair the vehicle, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of CLUB CAR.

## 5. HOW TO MAKE A WARRANTY CLAIM:

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

**6. 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 REMEDY OF THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE 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, 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.**

**7. 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 VEHICLE, 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.

**8. INFORMATION:**

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

**9. WARNING:**

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









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Performance Utility Vehicles



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