



# HAMMERHEAD RANCHER LT



Owner's Manual

## WELCOME INTRODUCTION

Thank you for purchasing Hammerhead Rancher 150 Utility Vehicle (UTV). We hope you will enjoy it. Before you start to operate the vehicle, please read through this owner's manual carefully as it contains important safety and maintenance information. Failure to follow the warnings contained in this manual can result in serious injuries in juries or death

Be sure to follow the recommended maintenance schedule and service your vehicle accordingly. Preventive maintenance is extremely important to the longevity of your vehicle.

We hope you will have a pleasant experience with our product and thank you again for choosing Hammerhead Products.

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**Geason Enterprises, LLC dba Geason Powersports  
Emission Control System Warranty Statement**

**YOUR WARRANTY RIGHTS AND OBLIGATIONS**

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The U.S. Environmental Protection Agency and **Geason Enterprises, LLC dba Geason Powersports** (hereinafter "**Geason Powersports**") are pleased to explain the emission control system warranty on your 2011 Off-Road UTV. New off-road motor vehicles must be designed, built and equipped to meet U.S. EPA Federal anti-smog standards. Geason Powersports must warrant the emission control system on your vehicle for 5,000 km, or at least 30 months, whichever comes first, provided that there has been no abuse, neglect or improper maintenance of your vehicle. This UTV was designed to meet the emission standards for 10,000 km, or five years, whichever comes first.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter and engine computer, if it is equipped. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, Geason Powersports will repair your vehicle at no cost to you, including diagnosis, parts and labor.

If an emission-related part on your vehicle is defective, the part will be repaired or replaced by Geason Powersports. This is your emission control system DEFECTS WARRANTY.

**NOTICE!** Use of any Geason Powersports vehicle in any type of competitive event completely and absolutely voids this and all other warranties offered by Geason Powersports.

**OWNER'S WARRANTY RESPONSIBILITIES**

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

You are responsible for presenting your vehicle to the Geason Powersports dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the vehicle owner, you should be aware that Geason Powersports may deny your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you use your vehicle in any type of competitive event, this warranty is immediately and completely void.

If you have any questions regarding your warranty rights and responsibilities, you should contact Geason Enterprises, LLC dba Geason Powersports, 1200 Flower Mound Parkway #325, Flower Mound, TX 75028, Phone: 214-513-1700, or, the U.S. Environmental Protection Agency, 2000 Traverwood Drive, Ann Arbor, MI 48105.



Geason Enterprises, LLC dba Geason Powersports  
Limited Warranty on Emission Control System

**YOUR WARRANTY RIGHTS AND OBLIGATIONS**

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Geason Enterprises, LLC dba Geason Powersports (hereinafter "Geason Powersports") warrants that each new 2011 and later Geason Powersports off-road vehicle:

- A. is designed, built and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency; and
- B. is free from defects in material and workmanship which cause such vehicle to fail to conform to applicable regulations of the United States Environmental Protection Agency for the periods specified above.
- I. **Coverage.** Warranty defects shall be remedied during customary business hours at any authorized Geason Powersports dealer located within the United States of America in compliance with the Clean Air Act and applicable regulations of the United States Environmental Protection Agency. Any part or parts replaced under this warranty shall become the property of Geason Powersports.
- II. **Limitations** This Emission Control System Warranty shall not cover any of the following:
  - A. Repair or replacement as a result of
    - (1) accident,
    - (2) misuse,
    - (3) repairs improperly performed or replacements improperly installed,
    - (4) use of replacement parts or accessories not conforming to specifications set forth by Geason Powersports, which adversely affect performance and/or
    - (5) use in competitive racing or related events.
  - B. Inspections, replacement of parts and other services and adjustments required for required maintenance.
  - C. Any vehicle equipped with an odometer or hour meter on which the odometer mileage or hour meter reading has been changed so that actual mileage cannot be readily determined.
- III. **Limited Liability**
  - A. The liability of Geason Powersports under this Emission Control System Warranty is limited solely to the remedying of defects in material or workmanship by an authorized Geason Powersports dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the vehicle or transportation of the vehicle to or from the Geason Powersports. Geason Powersports shall not be liable for any other expenses, loss or damage, whether direct, incidental, consequential or exemplary arising in connection with the sale or use of or inability to use the Geason Powersports vehicle for any purpose. Some states do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitations may not apply to you.



**Geason Enterprises, LLC dba Geason Powersports  
Limited Warranty on Emission Control System**

- B. No express emission control system warranty is given by Geason Powersports, except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of mechanability or fitness for a particular purpose, is limited to the express emission control system warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
  
- C. No dealer is authorized to modify this Limited Emission Control System Warranty issued by Geason Powersports.

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

**V.** This warranty is in addition to the Geason Powersports limited vehicle warranty.

**VI. ADDITIONAL INFORMATION.** Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. However, Geason Powersports are not liable for these parts. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the UTV is delivered to an ultimate purchaser.

**Geason Enterprises, LLC  
dba Geason Powersports  
1200 Lakeside Parkway #325  
Flower Mound, TX 75028  
Phone: 214-513-1700  
Fax: 214-513-1711**



# Hammerhead Off-Road Warranty Policy

## Limited Warranty for Dune Buggies / UTV Only

Should warranty service be required on your unit during the warranty period, please contact your nearest authorized dealer for repairs.

### IMPORTANT!

***ALL UNITS MUST BE REGISTERED WITHIN 14 DAYS OF PURCHASE OR WARRANTY IS VOID.***

To register your product a copy of the Warranty Registration Card, Buyer Safety Agreement, and sales receipt must be forwarded to Hammerhead Off-Road. Your dealer, with your assistance, will complete and forward these items to Hammerhead Off-Road. A copy of the Warranty Registration Card and Buyer Safety Agreement is attached. It is your responsibility to confirm with your dealer within 14 days of purchase that your product has been registered. If you are unable to confirm with your dealer within 14 days of purchase that your product has been registered please contact Hammerhead Off-Road within 14 days of purchase or your warranty will be void.

### GENERAL WARRANTY POLICY

Labor Warranty is covered for the first 90 days (THREE MONTHS) from the end consumer's date of purchase. Most parts covered under your warranty, except for the frame and engine, are covered for 30 or 90 days. Not all parts are covered. Contact your dealer for details or questions about a specific part. Warranty Parts are covered according to the schedule below from the end consumer's date of purchase. **All warranty paperwork must be received within 14 days of repair.**

### WARRANTY PARTS COVERAGE

Warranty starts from the date of purchase by end consumer:

FRAME:	1 year
ENGINE:	180 days
CARBURETOR:	90 days
MUFFLER:	90 days
A-ARM, SPINDLES, AXLES:	90 days
ELECTRONICS:	90 days
BATTERY:	30 days
SPEAKERS:	30 days
SPEEDOMETER:	30 days
TIRES & WHEELS:	30 days
FENDERS:	30 days
BRAKES:	30 days
CLUTCH:	30 days
SEATS:	30 days

### WHAT PARTS ARE NOT COVERED?

**GENERAL EXCLUSION:** The warranty does not cover consumable and normal wear and tear items such as, but not limited to, throttle cables, brake cables, chains, bikini tops, fasteners, air filters, brake pads, tires, oil changes, and/or problems occurring due to a lack of scheduled maintenance or consumer abuse. Modification to the vehicle, including the use of performance parts or non-original parts, will void the warranty in its entirety, unless express written approval stating that the warranty will not be voided is obtained from Hammerhead. Defective parts are

subject to recall by Hammerhead Off-Road upon failure and are required to be held by the dealer for 30 days from the time of the initial repair date.

The warranty does not cover damage or faults caused by misuse, negligence, alterations, accidents or any abnormal use including the use of non genuine parts, renting or leasing, competition or racing. This warranty does not cover loss of use of the unit or loss of time, or inconvenience.

**NOTICE:** All warranties are voided if the vehicle has been altered for use in racing or competition, rented, used under abnormal conditions, or subject to abuse, misuse, neglect or improper maintenance. Hammerhead Off-Road is not liable for any damage claim or liability claim, personal or otherwise resulting from operation of the vehicle in any way. All warranty parts will be shipped using UPS or Fed Ex ground ONLY. If the warranty part needs to be shipped 2<sup>nd</sup> day air or shipped overnight, the ordering dealership will be responsible for all shipping fees.

**NOTICE:** Hammerhead Off-Road reserves the right to change product specifications, designs, and standard equipment without notice and without incurring obligation. These vehicles are not designed or manufactured for racing or use on rental tracks, public streets, public roads, highways, paved surfaces, or right-of-ways. Always wear an approved helmet and eye protection when riding. Always secure loose clothing and long hair. Always utilize seatbelts. Please read the operators manual before usage and go over the Buyer Safety Agreement.

## **FAQ's:**

### **1. FOR WHAT REASONS CAN MY WARRANTY CLAIM BE DISPUTED OR DENIED?**

Warranty can be denied because of an out of warranty date, the unit was not a Hammerhead Off-Road unit or the Warranty Registration Card was not submitted to Hammerhead Off-Road within 14 days of purchase. The warranty does not apply to any part, which in opinion of seller was defective because of improper maintenance, improper assembly, alterations, abuse, negligence, or accident. The warranty does not cover loss of use of the seller vehicle, loss of time, inconvenience, or any other consequential damage which includes, but is not limited to, loss or damage to person or property or any expense of returning any damaged units to the seller, distributor, or its authorized dealer. Also, see above.

### **2. DOES HAMMERHEAD OFF-ROAD OFFER AN EXTENDED WARRANTY?**

No, Hammerhead Off-Road does not offer any type of extended warranty.

### **3. IS MY KART STILL UNDER WARRANTY IF I HAVE OWNED IT FOR 1 YEAR BUT PUT ONLY 6 HOURS OF DRIVING TIME ON IT?**

Warranty is based on the exact date of purchase, not based on how many hours it has been used.

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# Hammerhead Off-Road Warranty Registration Form

## Registration Terms & Conditions:

In order to activate the warranty, please follow the instructions below:

- 1) Make a copy of the Bill of Sale
- 2) Make a copy of Pre-Delivery Checklist
- 3) Make a copy of Buyer-Safety Agreement
- 4) Fill out warranty card and send with all above documents to:

### Hammerhead Off-Road

Attn: Warranty Registration  
1200 Lakeside Parkway Ste. 325  
Flower Mound, TX 75028

Or, Fax to 214-513-1738

Or, ON-LINE at [www.hammerheadoffroad.com](http://www.hammerheadoffroad.com) under dealer's only section

Hammerhead Off-Road Warranty Registration Card	
(Must be sent in with a copy of sales receipt and Buyers Safety Agreement)	
VIN# _____	Model: _____
Dealer Name: _____	
Dealer Address: _____	
City: _____	State: _____ Zip: _____
Customer Name: _____	
Customer Address: _____	
Customer City: _____	State: _____
Customer Phone: _____	Email: _____
Date of Purchase: _____	
I Certify that all information provided is true and correct to the best of my knowledge. I understand the exceptions and limitations of the warranty coverage.	
Customer Signature: _____	Date: _____

## **Hammerhead Buyers Safety Agreement (1/2)**

- \_\_\_\_\_ Always read the owner's manual carefully before riding and follow the operating procedures described in the owner's manual.
- \_\_\_\_\_ Pay close attention to all warnings contained in the manual and on all labels.
- \_\_\_\_\_ These vehicles are designed for riders of ages 5 through 8 for 50cc, 9 through 15 for 80cc, 16 and older for 150cc, 18 and older for 250cc, 400cc, 500cc.
- \_\_\_\_\_ Both the parent and the child must fully understand everything in the owners manual before riding.
- \_\_\_\_\_ Always wear a helmet, face shield, boots, gloves, and protective clothing while riding.
- \_\_\_\_\_ Beginners should receive training from a certified instructor.
- \_\_\_\_\_ It is illegal to ride this vehicle on public roads or highways.
- \_\_\_\_\_ Do not allow your child to ride without supervision.
- \_\_\_\_\_ Do not ride under the influence of drugs or alcohol. They can affect your judgment and slow your reaction time.
- \_\_\_\_\_ Always maintain a safe distance between your vehicle and vehicles around you.
- \_\_\_\_\_ Never ride this vehicle unless it has been properly adjusted and maintained.
- \_\_\_\_\_ Never run the engine in closed areas. The exhaust gas contains poisonous carbon monoxide.
- \_\_\_\_\_ Do not touch any part of the engine, muffler, or the exhaust system during or immediately after operation of the vehicle.
- \_\_\_\_\_ Always check for obstacles before operating in a new area.
- \_\_\_\_\_ It is highly recommended that this vehicle should not be driven at night or during dark periods
- \_\_\_\_\_ Never attempt to operate over large obstacles, such as large rocks, or fallen trees.  
Always follow proper procedures when operating over obstacles as described in this manual.

## Hammerhead Buyers Safety Agreement (2/2)

- \_\_\_\_\_ Always be careful when skidding or sliding. On extremely slippery surfaces such as ice, go slow and be very cautious in order to reduce the chance of skidding or sliding out of control.
- \_\_\_\_\_ Never do wheelies, jumps or any stunts.
- \_\_\_\_\_ Never operate the vehicle in fast flowing water. Remember that wet brakes may reduce your stopping ability. Test your brakes after leaving the water. If necessary, apply those several times to let friction dry out the linings.
- \_\_\_\_\_ Always use the size and type of tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- \_\_\_\_\_ All modifications to this vehicle should be made by a qualified mechanic. Modification to the vehicle, including the use of performance parts or non-original parts, will void the warranty in its entirety, unless express written approval stating that the warranty will not be voided is obtained from Hammerhead.
- \_\_\_\_\_ When transporting the machine in another vehicle, be sure that it is kept upright and that the fuel cock is in the "off" position. Otherwise, fuel may leak out of the carburetor or the fuel tank.
- \_\_\_\_\_ Always follow the break-in-period as described in the owner's manual. Not following the break-in period will void the engine warranty.
- \_\_\_\_\_ Always clean the air filter as described in the owner's manual. Improper maintenance of the air filter will void the engine warranty.

Failure to follow all warnings and unsupervised or irresponsible operation can cause serious injury or death. **By initialing each item on the above checklist, I have indicated my complete understanding of these points, and I acknowledge my responsibilities regarding the contents. I also agree to explain the points on this checklist to anyone besides myself who will be operating the vehicle now and/or in the future.**

\_\_\_\_\_  
**Dealer's Signature**

\_\_\_\_\_  
**Buyer's Signature**

\_\_\_\_\_  
**Print Store Name**

\_\_\_\_\_  
**Print Buyer's Name**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**VIN Number**

\_\_\_\_\_  
**Model**

## IMPORTANT MANUAL INFORMATION

**Note:** The operator, passenger, parents or guardian must read, study and understand all the items contained within this owners/operators manual before operating this vehicle. Failure to follow these instructions could endanger the personal safety of the operator, passenger and any Bystanders.

**FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.**

<b>!</b>	<b>The safety alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!</b>
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<b>! WARNING</b>	<b>Failure to follow WARNING instructions <u>could result in severe injury or death</u> to the vehicle operator, a bystander or a person inspecting or repairing the vehicle.</b>
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<b>CAUTION:</b>	<b>A CAUTION indicates special precautions that must be taken to avoid damage to the vehicle.</b>
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<b>NOTE:</b>	<b>A NOTE provides key information to make procedures easier.</b>
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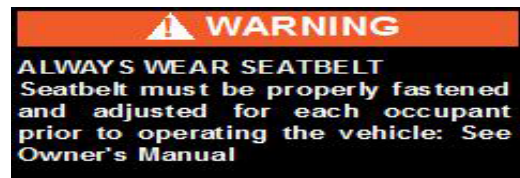
## LOCATION OF WARNING DECALS

Read and understand all of the labels on your vehicle. They contain important information for safe and proper of your vehicle. Never remove any labels from your vehicle. If a label becomes difficult to read or comes off, a replacement label is available from your dealer.

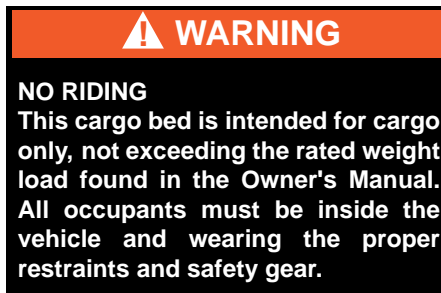
### Operator Age Limitation Warning



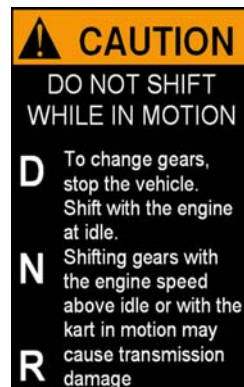
### Seat Belt Warning



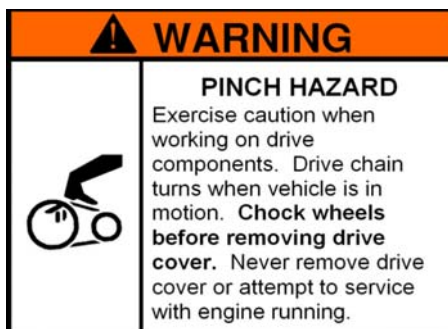
### No Riding on Cargo Bed Warning



### Gear Selection Warning



### Pinch Hazard



### Cargo Bed Limitation Warning



## Pre-Operation Warning

### **WARNING**

#### **OBSERVE THE FOLLOWING INSTRUCTIONS**

Failure to understand and follow Warnings and Instructions for the safe use and maintenance of this product may result in Death or Injury! This information is contained in the Warning Labels, Owner's Manuals & Supplements, Safety Video, and Engine Manual supplied with the product. Make sure that you understand and follow all Warnings and Instructions in this material.

- Always wear a D.O.T. - approved motorcycle helmet, eye protection, and protective clothing.
- Check tire pressures before operating. Refer to Owner's Manual for proper operating pressure.
- Do NOT operate the vehicle without the brush bars securely in place.
- Keep all covers and shields properly installed.
- Throttle and brake controls must work properly and freely before starting the vehicle.
- Operator must be seated, safety belt must be fastened, and brake applied before operating the vehicle.
- Never operate at speeds too fast for your skills or the conditions.
- Never attempt jumps or other stunts.
- Never ride after consuming alcohol, drugs, or other intoxicants.

## SAFETY INFORMATION

This off-highway utility vehicle handles differently from other vehicles including cars and ATVs. Where INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and labels carefully and follow the operating procedures described.
- This vehicle is designed to carry the driver and one passenger. Never carry passengers in the cargo bed.
- Always be sure the driver and passenger are wearing seat belts.
- Never give a ride to a passenger who is too small to reach and hold the handgrip on the enclosure.
- Always avoid operating the vehicle on any paved surfaces, including sidewalks, driveways, parking Lots, and streets.
- Never operate this vehicle in any public street, road, or highway, even a dirt or gravel one.
- Never operate this vehicle without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (goggles or a face shield), gloves, over-the-ankle boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this vehicle.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility, operating conditions, and your experience.
- Never attempt jumps or other stunts.
- Always inspect your vehicle each time you use it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.

- Always keep hands, arms, feet, and legs inside the vehicle at all times during operation. Keep your feet on the floorboard. Never hold onto the enclosure except when using the handgrip inside the enclosure. Otherwise, your hand could be injured if it is caught between the enclosure and an obstacle outside the vehicle.
- Always keep both hands on the steering wheel when driving.
- Never wrap your thumbs and fingers around the steering wheel. This is particularly important when driving in rough terrain. The front wheels will move right and left as they respond to the terrain, and this movement will be felt in the steering wheel. A sudden jolt could wrench the steering wheel around, and your thumbs or fingers could be injured if they are in the way of the steering wheel spokes.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when driving the vehicle.
- Never operate on excessively rough, slippery, or loose terrain until you have learned and practiced the skills necessary to control the vehicle on such terrain. Always be especially cautious on these kinds of terrain.
- Never turn at excessive speed. Practice turning at slow speeds before attempting to turn at faster speeds. Do not attempt turns on steep inclines.
- Never operate the vehicle on hills that are too steep for it or for your abilities. Go straight up and down hills where possible. Maximum slope angle:15°
- Never operate on hills that are slippery or ones where you will not be able to see far enough ahead of you. Never go over the top of a hill at speed if you cannot see what is on the other side.
- Always follow proper procedures for going uphill. If you lose momentum and cannot continue up a hill, back down the hill with the engine in reverse gear. Use engine braking to help you go slowly. If necessary, use the brakes gradually to help you go slowly.
- Always check terrain carefully before going down hills. Go as slowly as possible. Never go down a hill at high speed.

- Always check for obstacles before operating in a new area.
- Never operate the vehicle in fast flowing water or water deeper than the floorboards on this model. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Do not brake abruptly when carrying loads in the cargo bed.
- Always use the size and type of tire specified in this manual.
- Always maintain proper tire pressure as described in this manual.

Never exceed the stated load capacity. Cargo should be as far forward in the bed as possible, and distributed evenly from side to side. Be sure cargo is secured so that it cannot move around during operation. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

## DESCRIPTION AND VEHICLE IDENTIFICATION

### Side View



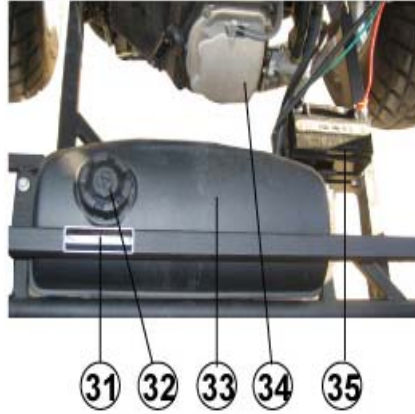
1. Head lights	2. Front ABS Plastic Bumper
3. Front Tire	4. Brush Guards
5. Side Mirrors	6. ABS Plastic Top
7. Transmission Shifter	8. Steering Wheel
9. Cup Holder	10. Parking Brake
11. Seat Bottom (fold to access gas tank)	12. Seatbelts
13. Dump Bed Handle	14. Dump Bed
15. Dump Bed Latch	16. Tail Gate
17. Rear Shock (adjustable)	18. Dump Bed Lever (to open dump bed)
19. Rear Fender	20. Rear Tires

### Inside View



21. Shifter Lever (F/N/R)	22. LCD Indicator (Speedometer, Turn
23. Glove Compartment	24. Brake Pedal
25. Throttle Pedal	26. Key Ignition
27. Hazard Warning Lights	28. Head Lights
29. Horn / Turn Signals	30. Auxiliary12V Plug

### Under the Seat



31. Vehicle Identification Plate	32. Gas Tank Cap
33. Gas Tank (unleaded gas only)	34. Engine
35. Battery	

### Rear View



37. Taillights (Running Lights and Brake	38. Rear Axle
39. Electrical Box	40. Air Filter Assembly
41. Rear Brake System	42. Adjustable Rear Shocks

## CONTROL FUNCTIONS



### Main Switch

Functions of respective switch position are as follows:

#### OFF:

All electrical circuits are switch off. The key can be removed in this position.

#### ON:


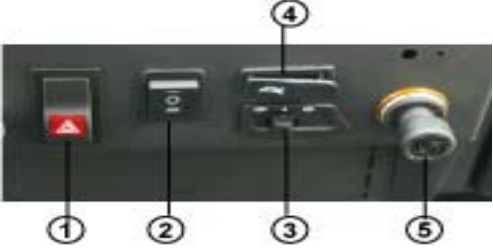
All electrical circuits are supplied with power, and the headlights and taillights comes on when the light switch is on.

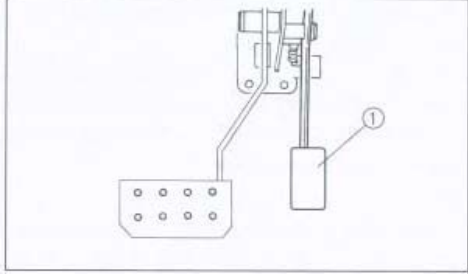
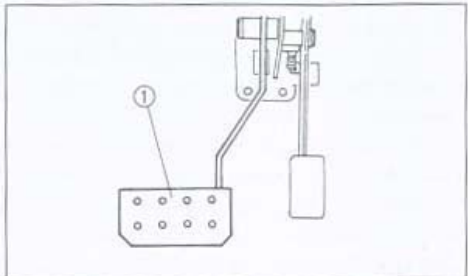

#### Ignition:

The electric starter is engaged by turning and holding the key in this position. Release the key when the engine starts.

### CAUTION:

- Do not operate the electric starter continuously for more than 5 seconds, or starter damage could occur. Wait at least 5 seconds between each operation of the electric starter to let it cool.
- Do not turn the key to the "START" position with the engine running, or damage to the electric starter can result
- See Starting instructions prior to starting the engine.

 <p>The image shows a close-up of a vehicle's instrument cluster. A digital display in the center shows '15 mph' and '0021' below it. Six numbered callouts point to specific features: 1 points to the speed display, 2 to the left turn indicator, 3 to the headlight indicator, 4 to the parking brake indicator, 5 to the right turn indicator, and 6 to the odometer display.</p>	<p><b>Indicator and warning lights.</b></p> <ol style="list-style-type: none"> <li>1. Speed indicator in MPH.</li> <li>2. Left turning light indicator</li> <li>3. Headlight Indicator</li> <li>4. Parking Brake Indicator</li> <li>5. Right turning light indicator</li> <li>6. Mileage odometer (miles)</li> </ol>
 <p>The image shows a close-up of a vehicle's control panel. Five numbered callouts point to specific controls: 1 points to the hazard lights switch, 2 to the headlight switch, 3 to the turning light switch, 4 to the horn, and 5 to the auxiliary power plug.</p>	<p><b>Control Panel</b></p> <ol style="list-style-type: none"> <li>1. Hazard Lights Switch</li> <li>2. Headlight switch (High/Low Beam)</li> <li>3. Turning Light switch</li> <li>4. Horn</li> <li>5. Auxiliary Power Plug (12 Volts)</li> </ol> <p>Caution: Do not use the headlights with the engine turned off for an extended period of time. The battery may discharge to the point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.</p>

 <p>1. Accelerator Pedal</p>	<p><b>Accelerator Pedal</b></p> <p>Press the accelerator pedal down to increase engine speed. Spring pressure returns the pedal to the rest position when released. Always check that the accelerator pedal returns normally before starting the engine.</p>
 <p>1. Brake Pedal</p>	<p><b>Brake Pedal</b></p> <p>Press the brake pedal to slow or stop the vehicle. This vehicle is equipped with front and rear disc brakes press the brake pedal will apply pressure on each brake disc.</p>
 <p>1. Parking Brake Lever</p>	<p><b>Parking Brake Lever</b></p> <p>The parking brake lever is located in between the driver seat and passenger seat.. It will help hold the vehicle from moving while parked.</p> <p>To set the parking brake, press the release button and pull up on the lever. To release the parking brake, press the release button and release the lever. Spring pressure helps return the lever to the released position. Be sure to fully release the parking brake before starting out. Failure to do so may result in poor performance and premature wearing of the rear brake and Drive Belt.</p>



1. Drive selector (Forward, Neutral, Reverse)

#### **Drive Select Lever**

The drive select lever is used to shift your vehicle into Forward, Neutral and Reverse position. (D,N,R). Always STOP the vehicle completely before select into a different drive.

NOTE: Sometimes it may be difficult to select into the drive that is because the gears might be locked up in the transmission. Try to move the vehicle with your weight to unlock the gears.

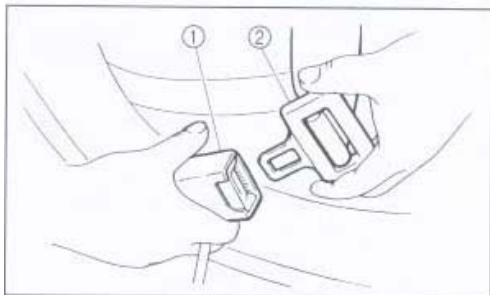


1. Fuel tank cap

#### **Fuel tank cap**

The Fuel tank is located underneath the vehicle's seat bottom. Pull vehicle's seat bottom up to reveal the fuel tank. Remove the fuel tank cap by turning it counterclockwise.

Warning: Only use unleaded grade gasoline

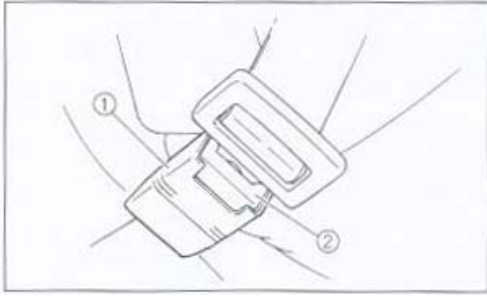


1. Buckle
2. Latch Plate

#### **Seat Belts**

This vehicle is equipped with three-point seat belts for both the operator and passenger. Always wear the seat belt while riding the vehicle.

1. Hold the latch plate as you pull the belt across your lap and chest. Make sure the belt is not twisted and is not caught on any portion of the vehicle, your clothing, or any equipment you are carrying.
2. Push the latch plate into the buckle until it clicks. Pull up on the latch plate to make sure it is secure.
3. Put the lap portion of the belt low on your



1. Buckle
2. Release Button

hips. Push down on the buckle end of the belt as you pull up on the shoulder part so the belt is snug across your hips.

4. Position the shoulder belt over your shoulder and across your chest. The shoulder belt should fit against your chest. If it is loose, pull the belt out all the way and then let it retract.
5. To release the buckle, firmly press the release button.

**WARNING**

**POTENTIAL HAZARD**

**Not wear the seatbelt, and wear the seat belt improperly.**

**WHAT CAN HAPPEN**

**There is increased risk of being killed or seriously injured in an accident.**

**HOW TO AVOID THE HAZARD**

**Always wear your seat belt when riding in the vehicle. Be sure the seat belt is close-fitting across your hips and chest and is latched securely.**



**Glove Compartment**

To protect from damages, do not put metal products, like tools or sharply edged products directly in the glove compartment. If they must be stored, wrap them in appropriate cushion materials.



**Cargo Bed**

Cargo bed weight capacity is 250 Lbs.

To open the tailgate, you need to unlatch two tailgate latches on either side of the tailgate.

Do not put any extra weight on the tailgate as it might break the latches. Weight capacity is 30 Lbs.

- 1. Cargo Bed Release
- 2. Bed Handles
- 3. Tailgate Latch
- 4. Tailgate



**Cargo Bed Release**

To Lift

Push the cargo bed release lever down, and then slowly lift up the cargo bed until it stops.

To Lower

Lower the cargo bed slowly to its original position by pressing on the side of the bed handles. Be sure it is locked into the place. The maximum

- 1. Cargo Bed Release

<p>2. Bed Handles</p> <p>3. Tailgate Latch</p> <p>4. Tailgate</p>	<p>load capacity is 250 Lbs.</p>
---	----------------------------------

**! WARNING**

**POTENTIAL HAZARD**

**Pinch Points**

**WHAT CAN HAPPEN**

You or someone else could be pinched between the cargo bed and the frame when the bed is being lowered.

**HOW TO AVOID THE HAZARD**

Before closing the bed, be sure others are standing away from the vehicle. Keep hands and fingers away from the pinch points between the bed and the frame.

**! WARNING**

**POTENTIAL HAZARD**

**Overloading the cargo bed**

**WHAT CAN HAPPEN**

Could cause changes in vehicle handling which could lead to an accident

**HOW TO AVOID THE HAZARD**

Never exceed the stated maximum load limit for the cargo bed.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo. Allow greater distance for braking.

**! WARNING**

**POTENTIAL HAZARD**

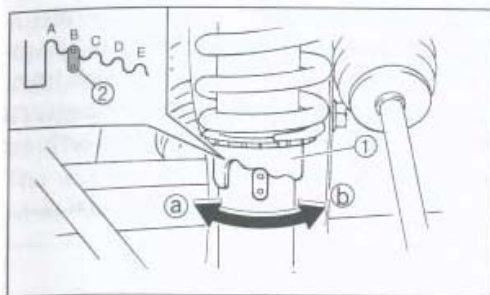
Carrying a passenger in the cargo bed.

**WHAT CAN HAPPEN**

The passenger could fall, be thrown out, or be struck by objects in the cargo bed.

**HOW TO AVOID THE HAZARD**

Never carry a passenger in the cargo bed. The cargo bed is designed to carry cargo only.



1. Spring preloaded adjusting ring
2. Position indicator

**Rear shock absorber adjustment**

The spring preload can be adjusted to suit the operating conditions.

You can reduce preload for a softer ride, or increase preload if frequent bottoming occurs.

Adjust the spring preload as follows.

- To increase the spring preload, turn the adjusting ring in direction of "A".
- To decrease the spring preload, turn the adjusting ring in direction "B"

**!WARNING**

**Frequent or severe bottoming can cause increased wear or damage to the vehicle.**

## PRE-OPERATING CHECKS

Before using this Vehicle, check the following Items:

ITEM	ROUTINE
Brakes	Check operation, free play, fluid level and fluid leakage. Fill with DOT 4 brake fluid if necessary.
Parking Brake	Check for proper operation, condition and free play
Fuel	Check fuel level. Fill with fuel if necessary.
Engine Oil	Check oil Level  Fill with oil if necessary.
Coolant reservoir	Check coolant level.  Fill with coolant if necessary
Final Gear Oil	Check for leakage
Accelerator Pedal	Check for proper accelerator pedal operation.
Seat belts	Check for proper operation and belt wear.
Steering	Check for proper operations.
Fitting and fasteners	Check all fittings and fasteners.
Lights and switches	Check for proper operation.
Wheels and tires	Check tire pressure, wear and damage.
Axle Boots	Check for damage.

### ! WARNING

**POTENTIAL HAZARD:**

**Failure to inspect the vehicle before operating. Failure to properly maintain the vehicle.**

**WHAT CAN HAPPEN:**

**Increase the possibility of an accident or equipment damage.**

**HOW TO AVOID THE HAZARD:**

**Always inspect your vehicle each time you use it to make sure vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.**

**BRAKE PEDAL**

Check for correct brake pedal free play. If the brake pedal free play is incorrect, have a dealer adjust it. Check the operation of the brake pedal. It should move smoothly and there should be a firm feeling when the brake are applied. If not, have the vehicle inspected by a dealer.

**Brake Fluid Level**

Check the brake fluid level. Add fluid if necessary.

Recommended Brake Fluid: DOT 4.

**Brake Fluid Leakage**

Check to see if any brake fluid is leaking out of the pipe joints or the brake fluid reservoir. Apply the brakes firmly for one minute. IF there is any leakage, have the vehicle inspected by a dealer.

**Brake Operation**

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brake system.

**! WARNING**

**POTENTIAL HAZARD:**

Driving with improperly operating brakes.

**WHAT CAN HAPPEN:**

You could lose braking ability, which could lead to an accident.

**HOW TO AVOID THE HAZARD:**

Always check the brakes at the start of every ride. Do not operate the vehicle if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have the vehicle inspected by a dealer.

**Fuel**

Make sure there is sufficient gasoline in the tank.

Recommended fuel: Unleaded Gasoline ONLY

Fuel Tank Capacity: 10L or 2.6 US Gallon

Your engine has been designed to use regular unleaded gasoline with a pump octane number of  $([R+M]/2)$  86 or higher, or research octane number of 91 or higher. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel. Unleaded fuel will give you longer spark plug life and reduced maintenance cost.

**! WARNING**

**POTENTIAL HAZARD:**

Improper case when refueling.

**WHAT CAN HAPPEN:**

Fuel can spill, which can cause a fire and severe injury.

Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun.

**HOW TO AVOID THE HAZARD:**

**Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely.**

## **Engine Oil**

Make sure the engine oil is at the specified level. Add oil as necessary.

### CAUTION:

- Make sure that no foreign material enters the crankcase.

## **Accelerator Pedal**

Check to see that the accelerator pedal operates correctly. It must operate smoothly and fully spring back to the idle position when released. Have a dealer repair as necessary for the proper operation.

## **Seat belts**

Make sure that both seat belts are not frayed or damaged.

The seat belt must move smoothly when pulled out and retract on its own when released. The latch plate should click securely into the buckle and release when the release button is pushed firmly. Wash off any dirt or mud which could affect operation. Have a dealer repair as necessary for proper operations.

## **Steering**

Park on level ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noise, or a rough feeling. Have a dealer repair as necessary for proper operation.

## **Fittings and fasteners**

Always check the tightness of chassis fittings and fasteners before a ride. Take a vehicle to a dealer or refer to the service manual for correct tightening torque.

## **Lights**

Check the headlights and tail/brake lights to make sure they are in working condition. Repair as necessary for proper operation.

## **Switches**

Check the operation of all switches. Have a dealer repair as necessary for proper operation.

## **Tires**

### **! WARNING**

#### **POTENTIAL HAZARD:**

Operating this vehicle with improper tire, or with improper or uneven tire pressure.

#### **WHAT CAN HAPPEN:**

Use of improper tires on this vehicle, or operation of this vehicle with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident.

#### **HOW TO AVOID THE HAZARD:**

**1. Use Proper Tires:**

Front Tire: 20 x 8 - 8

Rear Tire: 22 x 11 - 10

**2. The tires should be set to the recommended pressure.**

Front 15 PSI

Rear 15 PSI

## OPERATION

### **! WARNING**

#### **POTENTIAL HAZARD:**

Operating vehicle without being familiar with all controls

#### **WHAT CAN HAPPEN:**

Loss of control, which could cause an accident or injury.

#### **HOW TO AVOID THE HAZARD:**

Read the Owners manual carefully. If there is a control or function you do not understand, ask your dealer.

### **Start a cold engine**

1. Apply the brake.
2. Shift the drive select lever into the neutral position.

#### NOTE:

- When the drive select lever is in the neutral position.
- The engine can be started in any gear if the brake is applied. However, it is recommended to shift into neutral before starting the engine.
- 3. With your foot off the accelerator pedal, start the engine by turning the key to "START" position.

**NOTE:** If the engine fails to start, release the key, and then try starting again. Wait a few seconds before the next attempt. Each cranking could be as short as possible to preserve battery. Do not crank the engine more than 5 seconds on each attempt.

4. See the "Engine Brake In" section prior to operating the engine for the first time.

## Warming Up

To get the maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine! To see whether or not the engine is warm, check if it responds to the throttle normally with the starter (choke) turned off.

**Caution:** Before shifting, you must stop the vehicle and take your foot off the accelerator pedal, otherwise the transmission may be damaged.

### 1. Drive Select Lever



#### Shifting: Neutral to High and High to Low

1. Stop the vehicle. Keep your foot off the accelerator pedal.
2. Apply the brakes, then shift by moving the drive select lever along the shift guide.
3. Release the brakes and press the accelerator pedal gradually.

**NOTE:** Make sure the drive select lever is completely in the shifted position.

#### Shifting: Neutral to Reverse

1. Stop the vehicle. Keep your foot off the accelerator pedal.
2. Apply the brake pedal.
3. Shift from neutral to reverse or vice versa by moving the drive select lever along the shift guide.
4. Check behind for people or obstacles, then release the brake pedal.
5. Press the accelerator pedal gradually and continue to watch your rear view while

backing.

**! WARNING**

**POTENTIAL HAZARD:**

Improperly operating in reverse

**WHAT CAN HAPPEN:**

You could hit an obstacle or person standing behind you, resulting in serious injury.

**HOW TO AVOID THE HAZARD:**

When you shift into reverse, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly.

**Parking**

When parking, stop the engine and shift the drive select lever into the neutral position. Apply the parking brake to help prevent the vehicle from rolling.

**Parking on a slope**

**! WARNING**

**POTENTIAL HAZARD:**

Parking on a hill or other incline.

**WHAT CAN HAPPEN:**

The vehicle could roll out of control, increasing the chance of an accident.

**HOW TO AVOID THE HAZARD:**

Avoid parking on hills or other inclines. If you must park on an incline, apply the parking brake, and block the front and rear wheels with rocks or other objects. Do not park the vehicle at all on hills that are so steep you could not walk up them easily.

1. Bring the vehicle to stop by applying the brakes.
2. Stop the engine.
3. With the brake applies, set parking brake by pulling up the parking brake lever.

## DRIVING YOUR VEHICLE

### Getting to know your vehicle

This off-highway utility vehicle will handle and maneuver differently from an ordinary passenger car or other vehicle.

Before you begin to use your vehicle, be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information and warning labels on the vehicle. Please also read all caution and warning labels on your vehicle.

This vehicle is designed for the operator and one passenger. The driver and passenger must always wear a seat belt. Never carry passengers in the cargo bed.

The total weight of operator, passenger, accessories, cargo, trailer tongue weight, and the vehicle itself must not exceed 340 kg (750 lb). Carrying a passenger and cargo can affect vehicle handling.

The driver and passenger must always wear a seat belt and an approved motorcycle helmet. Also wear eye protection and protective clothing, including over-the-ankle boots, gloves, long-sleeved shirt or jacket, and long pants. Keep hands and feet inside the vehicle at all times.

### Going Uphill

Do not attempt to climb hills until you have mastered basic maneuvers on flat ground. Use proper driving techniques to avoid overturns on hills and slopes. Drive straight up hills, and avoid slopes. Avoid crossing the side of a hill, which increases your chance of rollover. Practice first on gentle slopes before attempting steeper hills. Always check the terrain carefully before attempting any hill. Use common sense and avoid hills that are too steep for you to climb.

Maximum slope angle: 15 Degrees
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Choose carefully which hills you attempt to climb. Avoid hills with slippery surfaces or ones where you will not be able to see far enough ahead of you.

## **Going Down Hill**

Check the terrain carefully before going down a hill. When possible, choose a path that lets you drive your vehicle straight downhill. Avoid sharp angles that could allow the vehicle to pitch or roll over. Carefully choose your path and drive no faster than you will be able to react to obstacles that may appear.

## **Riding over Rough Terrain**

Operating over rough terrain should be done with caution. Look for obstacles that could cause damage to the vehicle or could lead to a rollover or accident. Avoid jumping the vehicle as injury, loss of control, and damage to the vehicle could occur.

## **Tip over warnings and recovery**

This vehicle CAN be rolled over in case of reckless driving, going too fast, jumping or making sharp turn.

### **! WARNING**

#### **POTENTIAL HAZARD:**

**Driving recklessly, going too fast, jumping vehicle or sharp turns.**

#### **WHAT CAN HAPPEN:**

**The vehicle could tip over and fall on driver or operators body parts. Injuries may lead to disfigurements and maimed bodies.**

#### **HOW TO AVOID THE HAZARD:**

**Avoid driving recklessly, going too fast, jumping vehicle or make sharp turns. IN CASE OF TURN OVER, keep all limbs inside the vehicle. DO NOT extend any body parts outside of the vehicle. Wait until the vehicle stops rolling, get out of the vehicle and call for HELP.**

## PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. Safety is an obligation of the vehicle owner. The most important points of vehicle inspection, adjustment and lubrication are explained on the following pages.

### **! WARNING**

#### **POTENTIAL HAZARD:**

**Servicing an engine while its running**

#### **WHAT CAN HAPPEN:**

**Moving Parts can catch clothing or parts of the body, causing injury.**

**Electrical components can cause shocks or can start fires.**

#### **HOW TO AVOID THE HAZARD:**

**Turn off the engine when performing maintenance unless otherwise specified. Have a dealer perform service if you are not familiar with vehicle services.**

**PERIODIC MAINTENANCE / LUBRICATION**

ITEM	ROUTINE	Which ever Comes First	INITIAL			EVERY		
			Month	1	3	6	6	12
			KM	320	1200	2400	2400	4800
			(MI)	(200)	(750)	(1500)	(1500)	(3000)
			Hours	20	75	150	150	300
Valves	Check valves clearance adjust if necessary		YES		YES	YES	YES	
Spark Plug	Check condition  Adjust gap and clean  Replace if necessary		YES	YES	YES	YES	YES	
Air Filter(engine and air intake duct)	Clean  Replace if necessary							
Carburetor	Check idle speed/starter operation  Adjust if necessary			YES	YES	YES	YES	
Crankcase breather system	Check breather hose for cracks or damage  Replace if necessary				YES	YES	YES	
Exhaust System	Check for leakage  Replace gasket if necessary  Tighten if necessary				YES	YES	YES	
Sparks Arrester	Clean				YES	YES	YES	

Fuel Line	Check fuel hose for cracks or damage  Replace if necessary			YES	YES	YES
Engine Oil	Replace (warm engine before draining)	YES		YES	YES	YES
Engine Oil Filter cartridge	Replace	YES		YES		YES
Final Gear Oil	Check oil level / oil leakage	YES				YES
Front Brake	Check operation / brake pad wear / fluid leakage  Correct if necessary. Replace pads if worn to the limit.	YES	YES	YES	YES	YES

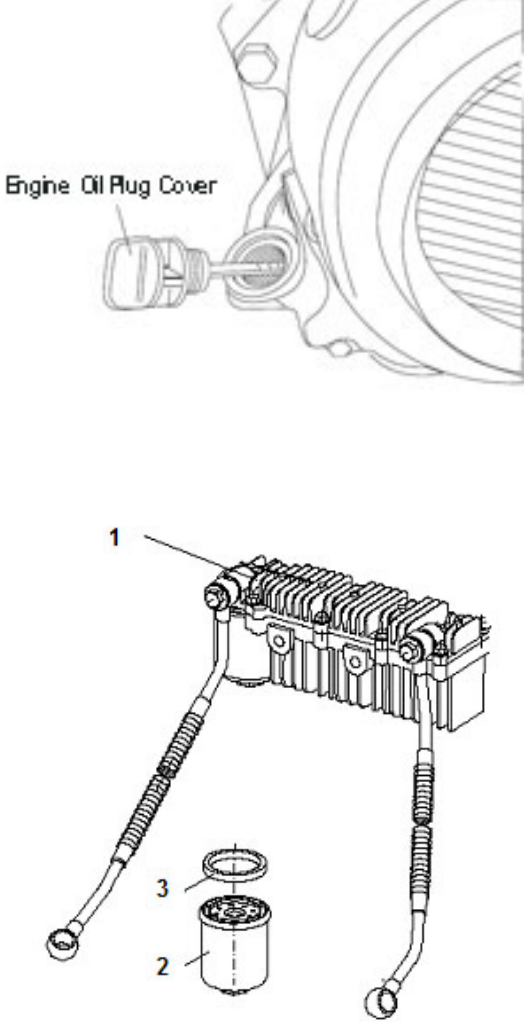
ITEM	ROUTINE	Which ever Comes First	INITIAL			EVERY		
			Month	1	3	6	6	12
			KM	320	1200	2400	2400	4800
			(MI)	(200)	(750)	(1500)	(1500)	(3000)
			Hours	20	75	150	150	300
Rear Brake	Check operation / brake pad wear / fluid leakage  Correct if necessary. Replace pads if worn to the limit.	YES	YES	YES	YES	YES		
Accelerator Pedal	Check operation and free play	YES	YES	YES	YES	YES		
V-Belt	Check operation  Repair for wear, cracks, of damage	YES			YES	YES		

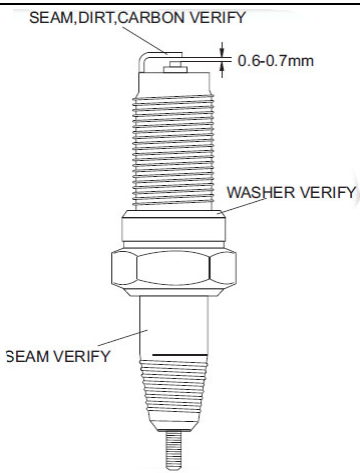
Wheels	Check balance/damage/run out.	YES		YES	YES	YES
Wheels bearing	Check bearing assemblies for looseness/damage  Replace if damaged.	YES		YES	YES	YES
Front and Rear Suspension	Check operation and for leakage  Correct if necessary			YES		YES
Steering System	Check operation and for looseness/replace if necessary.	YES	YES	YES	YES	YES
Engine Mount	Check for cracks or damage  Check bolts tightness			YES	YES	YES
Fittings and Fasteners	Check all chassis fittings and fasteners  Correct of necessary	YES	YES	YES	YES	YES

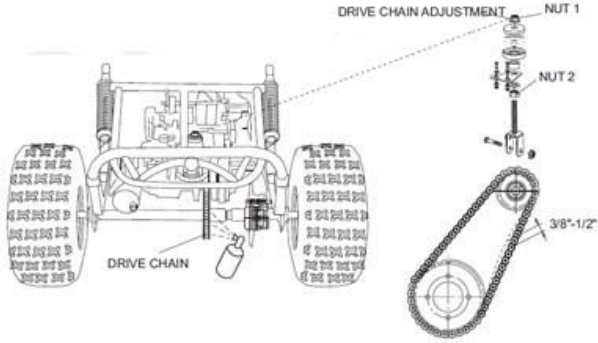
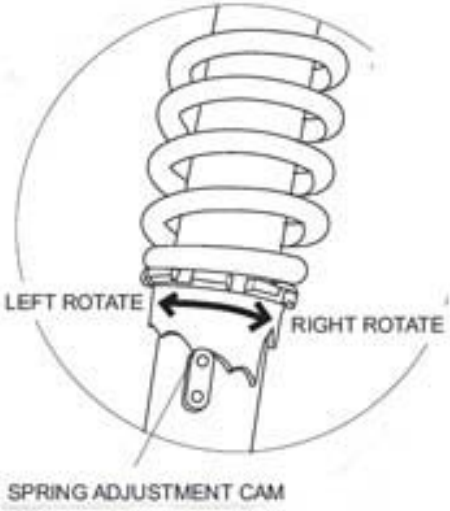
Items may require special tools, data and technical skills may require a dealer to perform the service.

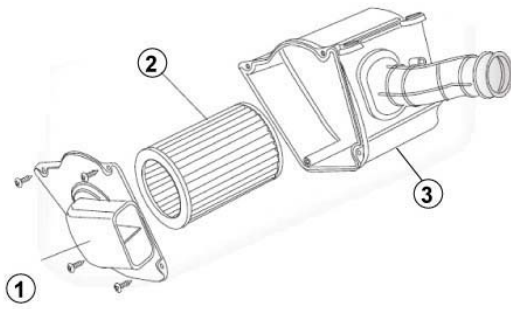
## Engine Oil and Oil Filter Cartridge

The Engine oil level should be checked before each operation. In addition, the oil must be changed and oil filter cartridge replaced at the intervals specified in the periodic maintenance and lubrication chart.

 <p>The diagram consists of two parts. The top part shows a close-up of the engine oil plug cover, which is a cylindrical cap with a handle, being inserted into a hole in the engine block. The bottom part shows a perspective view of the engine's oil cooler, which is a rectangular unit with multiple cooling fins. Two hoses are connected to the cooler. Below the cooler, there is a cylindrical oil filter and a small circular oil filter gasket. The components are numbered: 1 points to the oil cooler, 2 points to the oil filter, and 3 points to the oil filter gasket.</p> <ol style="list-style-type: none"><li>1. Oil Cooler</li><li>2. Oil Filter</li><li>3. Oil Filter Gasket</li></ol>	<h3>Service Engine Crankcase Oil</h3> <p><b>This vehicle comes with external oil cooler for the engine. Make sure to replace the oil cooler with authentic filter from your dealer.</b></p> <p>You must change the oil in the crankcase after the first 5 hours of operating of your new engine and after 10 hours of use thereafter. This will ensure proper lubrication of the internal parts and prevent costly repairs due to excessive wear.</p> <ol style="list-style-type: none"><li>1) Remove the screen cap drain plug located forward of the engine oil fill plug on the bottom right side of the engine. Upon removal of the plug, a filter screen will be visible. Elevating the front of the vehicle slightly will help drain all of the oil out.</li><li>2) Empty all of the oil into a suitable container.</li><li>3) Remove and clean the oil screen</li><li>4) With the oil completely drained, replace the screen and drain plug, then tighten securely.</li><li>5) The external oil filter is located behind the driver's seat in front of the battery tray. The screw on the oil filter should be replaced when oil is changed. With the oil drained from the crankcase, unscrew the oil filter and replace with a new one. Ensure that the oil filter gasket is properly seated, lubricated with oil and in good</li></ol>
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	<p>condition. Do not over tighten the oil filter.</p> <p>6) Replace the vehicle back on a flat surface to level the engine, and refill the crankcase with 30 oz of SAE 10W40 motor oil.</p> <p>7) Check the oil level using the dipstick attached to the oil plug cap. Be sure to check oil level before each use of the vehicle.</p> <p>8) Add oil when necessary to keep the oil level between the bottom of the dipstick and the "O" mark.</p>
	<p><b>Service Spark Plug</b></p> <p>1) Remove the spark plug and inspect it each time you change the oil. (use a spark plug wrench). The electrodes should be kept clean and free of carbon. The presence of the carbon or excess oil will greatly reduce proper engine performance. If possible, check the spark plug gap (area between the electrodes) using a wire feeler gauge. This specification is 0.6-0.7mm.</p> <p>2) Before installing spark plug, coat threads lightly with graphite grease if possible to ensure easy removal next time the spark plug needs inspection.</p> <p>3) It is advisable to replace the spark plug at least once a year to insure easy starting and good engine performance.</p>

	<p><b>Chain Lubrication</b></p> <p>To increase the chain life, it should be lubricated with a spray on type chain lubricant.</p> <p><b>Chain Adjustment</b></p> <p>Check the chain adjustment after the first two hours of use. Readjust if it has more than 1/2" flex.</p> <ol style="list-style-type: none"> <li>1) Loose Nut #1</li> <li>2) Adjust Nut #2. Turn Nut #2 clockwise in 1/2 turn increments, then turn Nut #1 until tight. Follow this procedure until chain is at proper tension.</li> <li>3) Repeat the above two steps until chain is adjusted to the desired fit.</li> </ol>
	<p><b>Adjustment of Front and Rear Shocks</b></p> <p>There are five adjustable positions on each shock. The default position is in the middle set by the manufacturer.</p> <p>Use a round nut wrench as you adjust the shock, the tension of the shock spring will increase as you screw to the left, decrease as you screw to the right. Adjust accordingly to the weight and riders.</p>

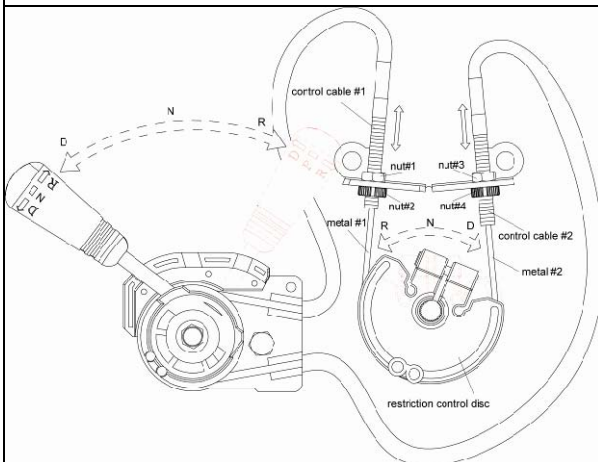


1. Air filter cleaner cover
2. Air filter element
3. Air filter right Cover

### Service Air Filter

#### Service air filter every 20 hours of use

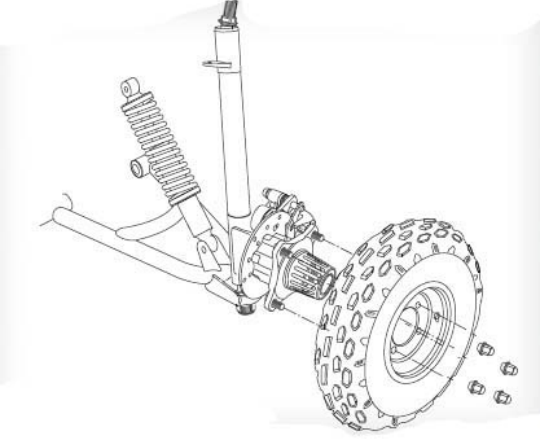
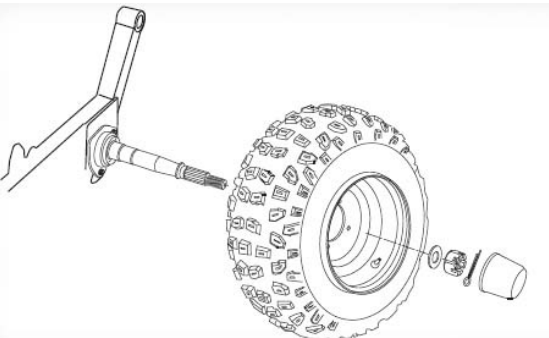
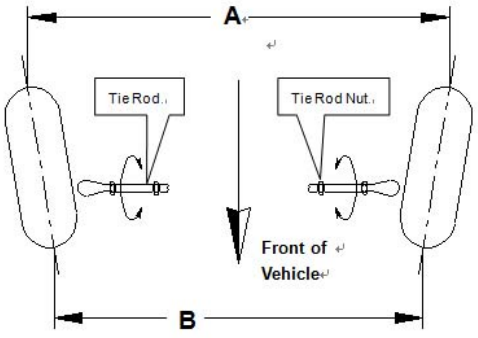
- 1) Remove cleaner cover by removing the Phillips head screws
- 2) Clean any excess dirt, oil or dust from the air cleaner box with a mild detergent and water solution
- 3) Thoroughly dry the air box.
- 4) Replace the air cleaner element.
- 5) Carefully align the gasket between the air box halves during re-assembly.

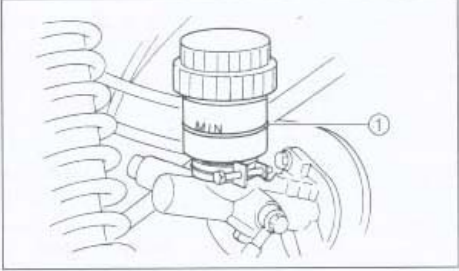


### Service Shifter Adjustment

Your unit might require an occasional adjustment in the shifter cables due to physical stretch found during normal operation of the vehicle. To make shift adjustments, follow the below instructions.

- 1) Push the shifter lever to forward or "D" position
- 2) Check the shifter control disc found just behind the oil level dipstick to ensure that it has rotated forward all the way. Look for any slack in control cable 1.
- 3) Loosen adjustment nuts #1 and #2, pulling the housing to draw the cable tight until the cable is properly tensioned.
- 4) Shift the lever to the "R" position and check the control disc to ensure that it has rotated full towards the rear of the vehicle.

	<p>5) Loosen adjustment nut #3 and #4, pulling the cable housing to draw #2 control cable right.</p> <p>6) Realign nut #2 and #4 when the cable is properly tensioned.</p>
	<p><b>Front Wheel Replacement</b></p> <p><b>Do not disassemble the castle nuts when you replace the front wheels.</b></p> <p>It is only necessary to remove the four lug nuts to remove the wheel. Tighten the nuts after replacing the wheels.</p>
	<p><b>Rear Wheel Replacement</b></p> <p><b>Do not disassemble the castle nuts when you replace the rear wheels and hub assembly.</b></p> <p>Remove the cotter pin and then 24mm nut. Then slide off wheel and hub assembly. It is only necessary to remove the four lug nuts to remove the wheels by itself.</p>
	<p><b>Front Wheel Alignment</b></p> <p>The front wheels should be set with a “toe-in” from 1/4” to 3/8”. At the centerline of the tires, measure the Distance A and the Distance B. For proper toe adjustment, Dimension A should be 1/4” – 3/8” greater than Dimension B.</p> <ol style="list-style-type: none"> <li>1) Loosen the lock nuts on both sides of Front Tie Rods.</li> <li>2) Ensure the steering wheel is centered, and</li> </ol>

	<p>adjust Dimension B by equally rotating the tie rods in or out with a 12mm wrench.</p> <ol style="list-style-type: none"> <li>3) After adjusting to the desired length, tighten the lock nuts against the rod end.</li> <li>4) Recheck the dimensions for proper alignment.</li> </ol>
	<p><b>Service Brake Fluid Level</b></p> <p>Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective.</p> <p>Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads or brake system leakage. IF the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.</p> <p>The brake fluid reservoir is located under the hood.</p> <p>Use only the recommended quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor braking performance.</p> <ol style="list-style-type: none"> <li>1) Refill with the same brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.</li> <li>2) Be careful water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.</li> <li>3) Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.</li> </ol>

	<p>4) Have a dealer inspect the brake system if the brake fluid level goes down.</p> <p><b>Brake fluid replacement</b></p> <p>Complete fluid replacement should be done by trained service personnel. Have a dealer replace the following components during periodic maintenance or when they are damaged or leaking.</p> <p>5) Replace the oil seals every two years</p> <p>6) Replace the brake hoses every four years.</p>
<p><b>Battery</b></p> <p>The vehicle is equipped with a sealed type battery. Therefore it is not necessary to check the electrolyte or add distilled water in the battery. IF the battery seems to have discharged, consult a dealer.</p> <p>1. When vehicle is not used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.</p> <p><b>Warning: A special battery charger is required for recharging a sealed battery.</b></p> <p>Always make sure the connections are correct when putting the battery back in the vehicle.</p>	
<p><b>Fuse Replacement</b></p> <p>Your unit is equipped with inline fuses to protect the electrical system from excessive load conditions.</p> <p>Main fuse (15 amp) inline fuse is located inside the electrical box located on the drivers side, under the bed and on the top of the rear swing arm. Replace main fuse by removing the electrical cover and opening the fuse holder. A spare fuse is located inside the fuse holder.</p>	

## TROUBLESHOOTING

Although vehicles receive a rigid inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition system can cause poor starting and loss of power. The troubleshooting chart describes quick, easy procedures for making checks. If your vehicle requires any repair, take it to a dealer.

Your skilled technician at a dealership has the tools, experience and know-how to properly service your vehicle. Use only genuine parts on your vehicle.

## CLEANING AND STORAGE

### A. CLEANING

Frequent, thorough cleaning of your vehicle will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the vehicle:
  - a. Block off the end of the exhaust pipe to prevent water entry. A plastic bag and strong rubber band may be used.
  - b. Make sure the spark plug and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the wheel axles.
3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

**CAUTION:** Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes, transmission seals and electrical devices. Many expensive repair bills have resulted from improper high pressure detergent applications such as those available in coin-operated car washers.

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the vehicle off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbent cloth.
6. Clean the seats with a vinyl upholstery cleaner to keep the cover pliable and glossy.
7. Automotive type wax may be applied to all painted and chrome plated surfaces. Avoid combination cleaver-waxes. Many contain abrasives which may scratch the paint or protective finish. When finished, start the engine and let it idle for several minutes.

**! WARNING**

**POTENTIAL HAZARD**

**Operation with wet brakes after washing.**

**WHAT CAN HAPPEN**

**Wet brakes may have reduced stopping ability, increasing the chance of an accident.**

**B. STORAGE**

Long term storage (60 days or more) of your vehicle will require some preventive procedures to guard against deterioration. After thoroughly cleaning the vehicle, prepare for storage as follows:

1. Fill the fuel tank with fresh fuel and add the specified amount of Fuel Stabilizer and Conditioner or equivalent product. Operate the vehicle for at least 5 minutes to distribute treated fuel through the fuel system.
2. Drain the fuel from the carburetor float chamber into a clean container by loosening the drain bolt; this will help prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.

**Specified amount:**

**NOTE:** Use of fuel stabilizer and conditioner eliminates the need to drain the fuel system. Consult a dealer if the fuel system needs to be drained instead.

3. Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder wall with oil.
4. Lubricate all control cables.
5. Block up the frame to raise all wheels off the ground.

6. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
7. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat covers.
8. Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C (30°F) or more than 30°C (30°F)).

**NOTE:** Make any necessary repairs before storing the vehicle.

## SPECIFICATIONS

### Dimensions

Overall length	91 inch
Overall width	51 inch
Overall height	68 inch
Wheel base	63 inch
Ground clearance	8.6 inch
Minimum turning radius	78 inch
Basic weight	700 lbs.

### Engine

Type	Single cylinder oil & cooled 4 stroke
Engine Displacement	150cc
Bore x Stroke	57.4 x 57.8
Carburetor	Deni
Output Power	9.0 HP @ 7500 rpm 13 ft-lbs @ 5500 rpm
Starting	Keyed Electric
Ignition	CDI
Lubrication	SAE 10W/40
Transmission	CVT automatic with Neutral and Reverse
Spark Plug / Gap	C7HSA (NGK) / 0.6 – 0.7 mm
Fuel Type	Only use mid-grade unleaded (89-93 Octane)

### Chassis

Front Tire	20 x 8 – 8 @ 15 psi
Rear Tire	22 x 11 – 10 @ 15 psi
Front Brakes	Hydraulic Disc Brake
Rear Brake	Hydraulic Disc Brake
Front Suspension	Dual A-Arm with 1.8" of travel

Rear Suspension	Spring over shock with 2.0" of travel
Dry Weight	700 Lbs

### Capacities

Maximum Bed Load	250 Lbs
Climbing Angle	15-20 Degree
Fuel Tank	10 L / 2.6 Gal
Engine Oil	36 Oz
Battery	12 V 9 AH
Top Speed	25-28 MPH
Total Vehicle Weight Capacity (including passenger)	800 Lbs