# OWNER'S/OPERATOR'S MANUAL

#### **WARNING:**

Read this Manual, and any Supplements Carefully Before Operating Vehicle.

- Assembly
- Operation
- Maintenance

THIS VEHICLE IS NOT DESIGNED FOR USE ON RENTAL TRACKS OR RACING

## **VICTORY 450 PRO(UTV CART)**

BEFORE OPERATING THIS VEHICLE, THE OWNER AND EACH OPERATOR MUST HAVE READ AND HAVE AN UNDERSTANDING OF ALL THE INSTRUCTIONS FOR PROPER ASSEMBLY AND SAFE OPERATION, AS WELL AS THE INSTRUCTIONS CONCERNING THE ENGINE AND ALL OTHER PORTIONS OF THE VEHICLE. **NOTE:** A storage area/toolbox has been provided on the OFF ROADUTV CART for storage of this manual.

Please keep this manual in storage so that it can be found easily and referenced when needed.

# **CONTENTS**

1. INTRODUCTION
2. UNDERSTANDING WARNING ······ 2.1
3. SAFETY WARNING •••••• 3.1
4. DAILY PRE-RIDE INSPECTION · · · · · 4.1
5. OPERATION WARNING ••••• 5.1
6. V.I.N. NUMBER ••••• 6.1
7. CONTROL AND FUNCTIONS •••••• 7.1
8. STARTING THE ENGINE •••••• 8.1
9.BREAK-IN •••••• 9.1
10. RIDING WEAR •••••• 10.1
11. REAR SEAT •••••• 11.1
12.CVT SYSTEM •••••• 12.1
13. EXHAUST SYSTEM •••••• 13.1
14.BATTERY •••••• 14.1
15. TROUBLE SHOOTING •••••• 15.1
16. SPECIFICATION •••••• 16.1
17. ELECTRIC SCHEMATIC DIAGRAM •••••17.1
18. MAINTENANCE •••••• 18.1

## Introduction

Congratulations on the purchase of your OFF ROAD UTV CART. We take pride in offering you this product engineered and manufactured to the highest performance and quality standards. We are sure that you will enjoy superior levels of performance, reliability, riding comfort, and safety.

This manual is provided to help the owner and operators of this OFF ROAD UTV CART become familiar with the operating characteristic, and the many features offered on the OFF ROAD UTV CART. The manual also covers information on the care and maintenance of your OFF ROAD UTV CART.

Please read this manual carefully. The information contained in this Owner's Manual, the Warning Labels supplied with this product will help you to understand the safe use and maintenance of your OFF ROAD UTV CART. Make sure that you understand and follow all Warnings and Instructions in this material.

If you did not receive any of the material listed above, please call your dealer and request to have them sent to you.

## **Important Safety Notice**

- This vehicle is designed and manufactured for off-road use only. It is illegal to operate this vehicle on any public street, road, or highway. Such use is prohibited by law.
- Check the laws and regulations in force before choosing where to operate this vehicle. It is illegal to operate this vehicle on public lands where vehicles its size are prohibited.
- Never make any modifications to the engine, drive system, mechanical or electrical systems of your OFF ROAD UTV CART. Never install aftermarket parts or accessories intended to increase the speed or power of your OFF ROAD UTV CART.
- Failure to follow these warnings increases the possibility of accidents leading to **DEATH** or **SERIOUS INJURY!**
- Additionally, failure to follow these requirements will void the Warranty on your OFF ROAD UTV CART.

#### NOTE

The addition and use of certain accessories including, (but not limited to) mowers, blades, sprayers, winches and windshields will change the handling characteristics and the performance of your OFF ROAD UTV CART.

## **Practice Responsible OFF ROAD UTV CART Riding**

Make sure that you understand and follow all local, state/province, and federal/national riding laws and requirements.

Remember:Respect your vehicle, respect the environment and respect the property of others. You are responsible for your safety and the safety of others around you when you ride!

#### A OFF ROAD UTV CART CAN BE HAZARDOUS TO

#### OPERATE.

A OFF ROAD UTV CART handles differently from other vehicles including motorcycles, ATVs and cars. A collision rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.

#### **SERIOUS INJURY OR DEATH**

can result if you do not follow these instructions.

- Read this manual and all 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 allow anyone who is not an adult to operate this OFF ROAD UTV CART.
- Never permit a guest to operate this OFF ROAD UTV CART unless the guest has read this manual and all product labels.
- The driver and passenger must wear approved off-road motorcycle
   -type helmets that fits properly. The driver and passenger should
   also wear eye protections (glasses or face shields), gloves, boots,
   long-sleeved shirts or jackets, and long pants.
- As with any off-ROAD capable vehicle, there is a risk of tip over or rollover under certain conditions. Uneven terrain or slopes which pitch the vehicle sideways, turning too fast or sharp, or a combination of conditions increase the risk of tip over.
  - If you are in a situation where the vehicle is tipping over, do not put your arm or/ and leg outside the vehicle, do not try to stop tipping with your arm or leg. You could be severely injured. You could suffer a crushed hand, arm, leg, or foot, if part of your body is caught underneath the vehicle.
  - You must keep your arms and legs inside the vehicle until it has stopped moving.
- Never consume alcohol or drugs before or while operating this OFF ROAD UTV CART.
- Never operate at excessive speeds. Always travel at a speed which

is proper for the terrain, visibility and operating conditions, and your experience.

- Never attempt wheelies, jumps or other stunts.
- Always inspect your OFF ROAD UTV CART each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both 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 operating the OFF ROAD UTV CART.
- Never operate on excessively rough, slippery or loose terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Always have the OFF ROAD UTV CART checked by an authorized dealer if it has been involved in an accident.
- Never operate OFF ROAD UTV CART on hills too steep for the OFF ROAD UTV CART or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Never open throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Never go down a hill at high

- speed. Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Never attempt to turn the OFF ROAD UTV CART around on any hill. Avoid crossing the side of a steep hill if possible.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual.
- Always check for obstacles before operating in a new area. 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.
- Always be careful of skidding of sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Avoid operating the OFF ROAD UTV CART through deep or fast flowing water. Avoid water which exceeds the recommended maximum depth. Go slowly, carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary apply them lightly several times to let friction dry out the pads.
- 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. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never modify A OFF ROAD UTV CART through improper installation or use of accessories
- 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.

## 2. UNDERSTANDING WARNINGS

## ATTENTION:

This is an ADULT VEHICLE ONLY! Not a toy!
READ AND UNDERSTAND WARNINGS AND OWNER'S MANUAL
BERORE OPERATION.



## KNOW YOUR VEHICLE BEFORE YOU BEGING RIDING!

Read this manual thoroughly referring to the various areas which are being discussed on your machine. Operating this vehicle carries with it responsibilities for your personal safety, the safety of others, and the protection of our environment.

**NOTE:** Illustrations used in this manual are for general representation only. Your model may differ.

## 2. UNDERSTANDING WARNINGS

## **SAFETY ALERT**

WARNINGS identify special instructions or procedures which, if not correctly followed, could result in personal injury, or loss of life. Read all WARNINGS in this manual carefully. Follow their instructions to remain safe.

The following precautionary signal words are used throughout this manual to convey the following messages:



This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!



## WARNING

Indicates a potential hazard which could result in severe injury or death.



## CAUTION

Indicates a potential hazard which may result in personal minor injury or damage to the UTV CART.



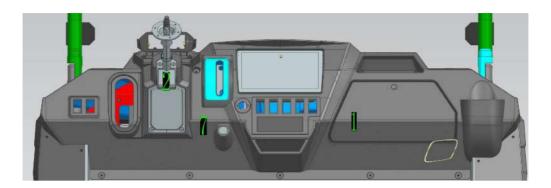
## CAUTION

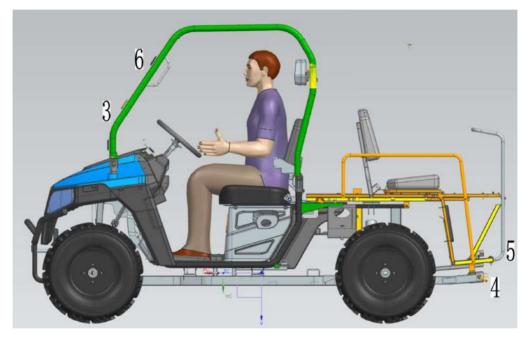
Indicates a situation that can result in damage to the machine.

## NOTE

The word "NOTE" in this manual will alert you to key information or instructions.

## 3. SFETY WARNING





## NOTE:

Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. In the event any decal becomes illegible or comes off, contact your dealer for a replacement.

## 3. SFETY WARNING

1



2 3





The enclosure cannot protect occupants in all foreseeable accidents,including rollover.

4



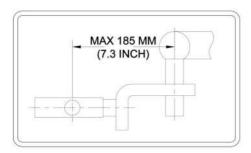
Pulling excessive loads can cause loss of stability or control of the vehicle.

Do not exceed the load capacity for the hitch.

Trailer Load Capacity of this vehicle is 441 lbs /200kg and 25lbs/ 11kg tongue weight.

## 3. SFETY WARNING

5



6



You could be severely injured if you try to stop a vehicle tip over using your arm or leg, if vehicle starts to tip over,keep arms and legs inside vehicle.

Slopes, uneven terrain, and turning too fast or sharp increase the risk of tip over.

7

# **CAUTION**

Do not use more than 100W electrical appliances for USB interface

## 4. DAILY PRE-RIDE INSPECTION



## **WARNING**

You must inspect your OFF ROAD UTV CART each time before riding to ensure it is in proper working order. If proper inspection is not done, injury or death could result.

Use the following checklist to verify your machine is in proper working order each time you ride.

#### ITEM/ INSPECTION PROCEDURE

- **1, Tire** check condition and pressures.
- **2, Fuel tank** checking for leaking, fill the fuel tank to its proper level.
- **3, All brakes** check fluid level, check operation, adjustment (includes parking brake).
- Brake pedal

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

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 an authorized dealer. Brake fluid level

Check the brake fluid level.

Add fluid if necessary.

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.

**4, Throttle/ Accelerator pedal**— check for free operation, closing and free play.

Check to see that the accelerator pedal operates correctly. It must operate smoothly and fully spring back to the idle position when

## 4. DAILY PRE-RIDE INSPECTION

released.

Have an authorized dealer repair as necessary for proper operation.

- **5, Headlight / Taillight / Brake light** check operation of all indicator lights and switches.
- **6, Engine stop switch** check for proper function.
- **7, Wheels** check for tightness of wheel nuts and axle nuts; check those axle nuts are secured by cotter pins.

Check balance/ damage/ run out. Have an authorized dealer repair/ replace if necessary.

Check bearing assemblies for looseness/damage. Have an authorized dealer replace if damaged.

- **8, Air cleaner element** check for dirt; clean or replace.
- **9, Steering** check for free operation noting any unusual looseness in any area.

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

**10, Loose parts** — visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners.

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

- 11, Operator's and passenger's helmets, goggles and clothing.
- **12, Engine coolant** check for proper level at the recovery bottle.
- 13, Seat belts— Check for proper operation and belt wear.

  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. Clean off any dirt or mud which could affect operation. Have an authorized dealer repair as necessary for proper operation.



#### WARNING

#### POTENTIAL HAZARD

Malfunction of the accelerator pedal.

#### WHAT CAN HAPPEN

The accelerator pedal could be hard to operate, making it difficult to speed up or slow down when you need. This could cause an accident.

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

Check the operation of the accelerator pedal before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before operating the vehicle. Consult an authorized dealer if you can't find or solve the problem yourself.



#### WARNING

#### POTENTIAL HAZARD

Not wearing the seat belt.

Wearing 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.



#### **WARNING**

#### POTENTIAL HAZARD

Try to stop the tipping vehicle with your arm or leg.

#### WHAT CAN HAPPEN

You could be severely injured. You could suffer a crushed hand, arm, leg, or foot,

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

You must keep your arms and legs inside the vehicle until it has stopped moving.

If you are in a situation where the vehicle is tipping over, do not put your arm or/ and leg outside, do not try to stop tipping with your arm or leg. You could be severely injured. You could suffer a crushed hand, arm, leg, or foot, if part of your body is caught underneath the vehicle.



## **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 this 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/ passengers in the cargo bed

#### WHAT CAN HAPPEN

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

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

Never carry a passenger/ passengers in the cargo bed. This cargo bed is designed to carry cargo only.



## **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 before 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 an authorized dealer.



#### 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 Owner's Manual carefully. If there is a control or function you do not understand, ask our authorized dealer.



#### **WARNING**

#### POTENTIAL HAZARD

Overloading this vehicle or carrying or towing cargo improperly.

#### WHAT CAN HAPPEN

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

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

Never exceed the stated load capacity for this vehicle.

Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.



#### **WARNING**

#### POTENTIAL HAZARD

Operating this vehicle with improper modifications.

#### WHAT CAN HAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

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

Never modify this vehicle through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine parts or equivalent components designed for use on this vehicle and should be installed and used according to instructions. If you have questions, consult an authorized dealer.



## **WARNING**

#### POTENTIAL HAZARD

Operating/ riding this OFF ROAD UTV CART without wearing an approved helmet, eye protection and protective clothing.

#### WHAT CAN HAPPEN

Operating/ riding without an approved helmet increases your chances of a severe head injury or death in the event of an accident.

Operating/ riding without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

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

Always wear an approved helmet which fits properly.

You should also wear eye protection (goggles or face shield); gloves; boots; long-sleeved shirt or jacket; and long pants.



## **WARNING**

#### POTENTIAL HAZARD

Operating this OFF ROAD UTV CART after drinking alcohol or edibling drugs.

#### WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

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

Never drink alcohol or edible drugs before or while driving this OFF ROAD UTV CART.



#### WARNING

#### POTENTIAL HAZARD

Operating this OFF ROAD UTV CART at excessive speeds.

#### WHAT CAN HAPPEN

Increases your chances of losing control of the OFF ROAD UTV CART, which can result in an accident.

#### HOW TO AVOID THE HAZARD

Always travel at a speed which is proper for the terrain, visibility and operating conditions; and your experience.



## **WARNING**

#### POTENTIAL HAZARD

Failure to inspect the OFF ROAD UTV CART before operating. Failure to properly maintain the OFF ROAD UTV CART.

#### WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

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

Always inspect your OFF ROAD UTV CART each time you use it to make sure the OFF ROAD UTV CART is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.



#### WARNING

#### POTENTIAL HAZARD

Removing hands from steering wheel or feet from footrests during operation.

#### WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control the OFF ROAD UTV CART or could cause you to lose your balance and fall off the OFF ROAD UTV CART.

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

Always keep both hands on the steering wheel and both feet on the footrests of your OFF ROAD UTV CART during operation.



#### WARNING

#### POTENTIAL HAZARD

Failure to use extra care when operating this OFF ROAD UTV CART on unfamiliar terrain.

## WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the OFF ROAD UTV CART overturning or going out of control.

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

Go slowly and be extra careful when operating on unfamiliar terrain.

Always be alert to changing terrain conditions when operating the OFF ROAD UTV CART.



#### **WARNING**

#### **POTENTIAL HAZARD**

Failure to use extra care when operating on excessively rough, slippery or loose terrain.

#### WHAT CAN HAPPEN

Could cause loss of traction or vehicle control, which could result in an accident, including an overturn.

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

Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the OFF ROAD UTV CART on such terrain.

Always be especially cautious on these kinds of terrain.



## **WARNING**

#### POTENTIAL HAZARD

Turning improperly.

#### WHAT CAN HAPPEN

OFF ROAD UTV CART could go out of control, causing a collision or overturn.

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

Always follow proper procedures for turning as described in the Owner's Manual.

Practice turning at low speeds before attempting to turn at faster speeds.

Do not turn at excessive speed.

Never operate OFF ROAD UTV CART on hills steeper than 15%.



## **WARNING**

#### **POTENTIAL HAZARD**

Improperly operating over obstacles.

#### WHAT CAN HAPPEN

Could cause loss of control or a collision. Could cause the OFF ROAD UTV CART to overturn.

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

Before operating in a new area, check for obstacles.

Use extreme caution when riding over large obstacles, such as large rocks or fallen trees.

If you cannot avoid obstacles, always follow proper procedures as described in the Owner's Manual



#### WARNING

#### **POTENTIAL HAZARD**

Skidding or sliding,

#### WHAT CAN HAPPEN

You may lose control of the OFF ROAD UTV CART.

You may also regain traction unexpectedly, which may cause the OFF ROAD UTV CART to overturn.

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

On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance or skidding or sliding out of control.



## **WARNING**

#### POTENTIAL HAZARD

Operating this OFF ROAD UTV CART through deep or fast flowing water.

#### WHAT CAN HAPPEN

May cause the electric motor or the cable short circuit, or the vehicle out of control, which could lead to an accident

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

Never operating the OFF ROAD UTV CART through water which exceeds the recommended maximum depth in this manual.



## **WARNING**

#### **POTENTIAL HAZARD**

Operating this OFF ROAD UTV CART with improper tires, or with improper or uneven tire pressure.

#### WHAT CAN HAPPEN

Use of improper tires on this OFF ROAD UTV CART, or operation of this OFF ROAD UTV CART with improper or uneven tier pressure, may cause loss of control, and increases the risk of an accident.

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

Always use the size and type ties specified in the Owner's Manual for this vehicle.

Always maintain proper tire pressure a described in the Owner's Manual



## **WARNING**

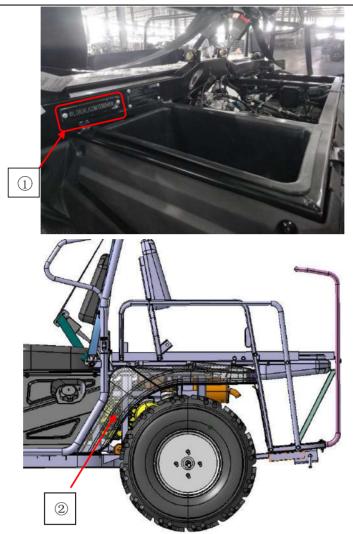
After a rollover or an accident, have a qualified service dealer check the complete machine including, but not limited to, brakes, throttle and steering for possible damage.



## **CAUTION**

Keep combustible materials away from exhaust system. Fire may result.

# 6. V.I.N., ENGINE SERIAL NUMBER AND KEY



Record these numbers from your OFF ROAD UTV CART in the spaces provided.

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2.	Engine Serial Number (Left side of engine crankcase)													

2. Engine Senai Number (Left side of engine Garikoase

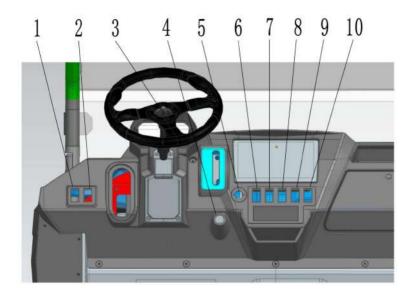
Remove the spare key and store it in a safe place. Your key can be duplicated only by obtaining a key blank and having it cut by mating it with your existing key.

# 6. V.I.N., ENGINE SERIAL NUMBER AND KEY

Record Key Number	

The vehicle frame and engine serial numbers are important for model identification when registering your vehicle, obtaining insurance or whenever replacement parts are required. In the event your vehicle is stolen these numbers are essential to the recovery and identification of your OFF ROAD UTV CART.

# ELECTRICAL SWITCHES Switch On Panel



- 1, Light Switch 2, Hi/ Lo Beam Switch 3, Horn 4, Main Switch
- 5, USB interface 6, Turning Signal Switch 7, Emergency Switch
- 8, 4WD Switch 9, Differential Lock Switch 10, Traction Switch

Functions of the respective switch positions are as follows:

- 1, Light Switch -- Turn on the headlight \( \) rear position lights and LCD Meter backlight.
- 2, Hi/ Lo Beam Switch -- Shift the high and low beam of headlight.
- 3. Horn -- Switch for horn.
- 4, Main Switch

ON: All electrical circuits are supplied with power.

OFF: All electrical circuits are switched off. The key can be removed in this position.

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



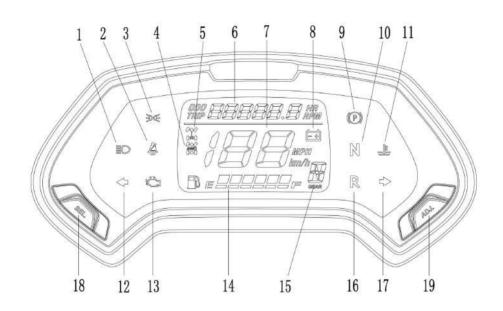
#### CAUTION

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.

- 5, USB interface -- Used to plug USB devices
- 6, Turn Signal Switch -- Turns on the left/right turn signals.
- 7, Emergency Switch -- Turns on all the turn signals.
- 8, 4WD Switch -- Change condition of vehicle to 4WD or 2WD.
- 9, Differential Lock Switch -- For controlling the rear differential, rear differential lock does not work when locking.
- 10, Winch Switch -- For controlling the tractor reversing.

#### **LCD Meter**



Headlight switch indicator	11. Water temperature alarm
2. Seat belt warning	12. Left Turn Indicator
3. Headlight switch indicator	13. Engine RPM
4. 2WD-4WD indicator	14. Fuel Gauge
5. Rear differential lock indicator	15. Gear indicator
6. Odometer	16. Reverse indicator
7. Speed	17. Right Turn Indicator
8. Low battery warning	18. Function buttons1
9. Parking indicator	19. Function buttons2
10. Neutral indicator	

## Key function:

Function	Button 1	Button 2	Display
Interface switching	Short press		Total mileage Subtotal mileage Engine tachometer Backlight level Engine tachometer
Backlight adjustment		Short press	Backlight level +1
Mileage clearing		Long press	Subtotal mileage clearing
Unit Swithcing	Short press		Speed unit flashing
		Short press	Metric/English unit switching
Return	Short press		Save and Exit

**Caution**: Electric fuel injection failure alarm indicator should be lit, when open the key switch but did not start the engine, to prompt the alarm function is normal. After the engine starting, the lamp shall be put out, otherwise the efi system is faulty. with the cap.

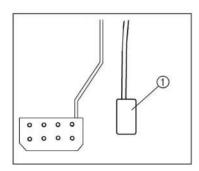
#### **ACCELERATOR PEDAL**



## **WARNING**

Before starting the engine, check the accelerator pedal to be sure it is operating smoothly.

Make sure the accelerator pedal fully returns to the idle position as soon as it is released.



## 1.Accelerator pedal

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.



## **WARNING**

#### POTENTIAL HAZARD

Malfunction of the accelerator pedal.

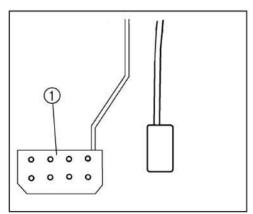
#### WHAT CAN HAPPEN

The accelerator pedal could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

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

Check the operation of the accelerator pedal before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before operating the vehicle. Consult the authorized dealer if you can't find or solve the problem yourself.

#### **BRAKE PEDAL**



1.Brake pedal

Press the brake pedal to slow or stop the vehicle.

## **WARNING**

Never operate the OFF ROAD UTV CART with a spongy feeling brake pedal. Operating the OFF ROAD UTV CART with a spongy brake pedal can result in loss of braking. Loss of braking could cause an accident.

#### PARKING BRAKE LEVER

The parking brake lever is located at the left hand of the steering wheel . It will help hold the vehicle from moving while parked. To set the parking brake, pull the lever up completely. The parking indicator light will come on if the main switch is on. To release the parking brake, pull up on the lever, press the release button, and then push the lever all the way down. 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 parking brake and V-belt.

- 1. Release button
- 2. Parking brake lever



#### **AUTOMATIC TRANSMISSION GEAR SELECTOR OPERATION**

The transmission gear selector is located at the right side of the steering wheel The transmission selector lever has five positions: hight gear; low gear; neutral; reverse; packing brake.



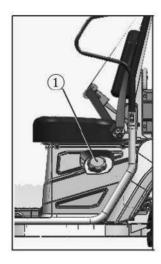
## **CAUTION**

To change gears, stop the vehicle and with the engine idling, move the lever to the desired gear. Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.

Maintaining shift linkage adjustment is important to assure proper transmission function. Should you experience any shifting problem see your dealer.

#### **FUEL TANK CAP**



1.Fuel tank cap
Remove the fuel tank cap by turning it counterclockwise.

#### **SEATS**



1.Drive seat2.Passenger seat

To remove a seat, lift the front of the seat, and then slide the seat up

and forward.

To install a seat, insert the projections on the rear of the seat into the seat holders and push down on the seat at the front.



## **WARNING**

#### **POTENTIAL HAZARD**

A loose seat.

#### WHAT CAN HAPPEN

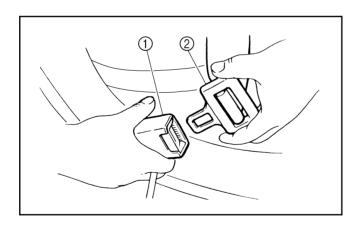
The operator could lose control or the operator or passenger could fall if the seat is loose during operation.

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

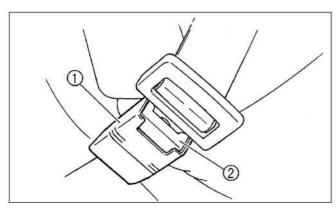
Make sure the seat is securely latched.

#### **SEAT BELTS**

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



- 1. Buckle
- 2. Latch plate



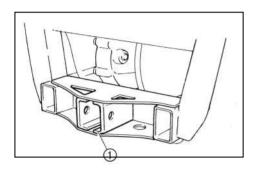
- 1. Buckle
- 2.Release button



## **CAUTION**

To protect from damage, 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 material.

#### TRAILER HITCH BRACKET



## 1.Trailer hitch bracket

This vehicle is equipped with a receiver bracket for a standard trailer hitch.

#### **FUEL AND OIL SYSTEM**



## **WARNING**

Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped and outdoors or in a well ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not over fill the tank. Do not fill the tank neck.
- If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.

## **WARNING**

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

**Recommended Fuel: Unleaded Gasoline Only** 

Fuel tank capacity: 18L

## 8. STARTING THE ENGINE

## **Procedure for Starting a Cold Engine**



## **WARNING**

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.



## **WARNING**

#### POTENTIAL HAZARD

Freezing control cables in cold weather.

## **WHAT CAN HAPPEN**

You could be unable to control the vehicle, which could lead to an accident or collision.

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

When riding in cold weather, always make sure all control cables work smoothly before you begin riding.



## **CAUTION**

You must allow your vehicle adequate warm up time before driving, otherwise it will damage the 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 neutral indicator light should come on. If the neutral indicator light does not come on, ask a dealer to inspect the electric circuit.

The engine can be started in any gear if the brake is applied. However, it is still recommended to shift into neutral before starting the engine.

3. With your foot off the accelerator pedal, start the engine by turning

## 8. STARTING THE ENGINE

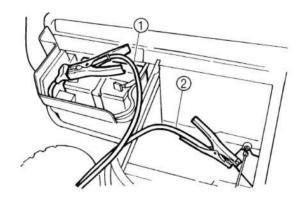
the key to "START".

**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 should be as short as possible to preserve battery energy. Do not crank the engine more than 5 seconds on each attempt.

## **Jump-starting**

Jump-starting the vehicle should be avoided. The battery should be removed and charged instead. However, if the vehicle must be jump started, proceed as follows.

- 1. Turn the key to "OFF".
- 2. Connect the positive end of a full charged 12V battery to the positive end of battery in the car by using the jumper cable.



- 1. Jumper cable positive lead
- 2. Jumper cable negative lead
- 3. Connect the negative lead of the jumper cable to the negative terminal of the charged battery and the other end of the negative lead to an unpainted metal surface of the vehicle.
- 4. Open the key switch, apply the brake, turn the ignition key to starting stalls, start the engine.
- 5. After the engine starts, disconnect the negative lead of the jumper

# 8. STARTING THE ENGINE

cable from the vehicle and charged battery, and then disconnect the positive lead of the jumper cable from the charged battery and the battery in the vehicle.

# 9. VEHICLE BREAK-IN PERIOD

The break-in period for your new OFF ROAD UTV CART is defined as the first 50 hours of operation. No single action on your part is as important as a proper break in period. Careful treatment of new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.



# **CAUTION**

Do not operate at full throttle or high speeds for extended periods during the break-in period. Excessive heat can cause damage on engine related components.

- Fill fuel tank.
- 2. Check oil reservoir level indicated on dipstick. Add oil if necessary.
- 3. Drive slowly at first. Select an area which is open and will give you room to familiarize yourself with vehicle operation and handling.
- 4. Vary the throttle positions. Do not operate at sustained idle.
- 5. Perform regular checks on oil reservoir level, controls all important areas on the vehicle according to the chapter of "PRE-RIDE".
- 6. Don't pull loads.
- 7. Please replace the engine oil and filter, after driving for 20 hours or 500 miles.

## **10. RIDING WEAR**

Always wear clothing suite to the type of riding you are doing. OFF ROAD UTV CART riding requires special protective clothing which will make you fell more comfortable and reduce chances of injury.

## 1. Helmet

Your helmet is the most important piece of protective gear for safe riding. Select an approved off-road motorcycle -type helmets that fits properly prevent a severe head injury.

## 2. Eye Protection

A pair of goggles or helmet face shield offer the best protection for your eyes.

## 3. Gloves (off-road style)

## 4. Boots

A pair of strong over the calf type boots with heels, such as motocross boots.

## 5. Clothing

To protect your body, long sleeves and pants should always be worn. Riding pants with kneepads, a jersey and shoulder pads provide the best protection.

## **10. RIDING WEAR**



# **WARNING**

## POTENTIAL HAZARD

Operating this vehicle without wearing an approved motorcycle helmet, eye protection, and protective clothing.

## WHAT CAN HAPPEN

Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident.

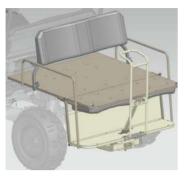
Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

## **HOW TO AVOID THE HAZARD**

Always wear an approved motorcycle helmet that fits properly. You should also wear: eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket long pants.

# 11. REAR SEAT

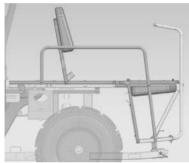
# **REAR SEAT**

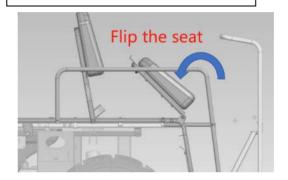


This UTV supports replacing the cargo box with a rear seat Assy.

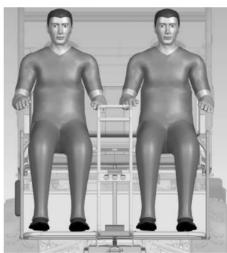
## **MAXIMUM LOADING LIMIT**

Rear Seat: 150 kg (331 lb) (Carrying 2 persons)









# 11. REAR SEAT



# **WARNING**

- 1. Always remain properly seated with seat belt fastened and holding on.
- 2. Only 2 occupants on bench seat.
- 3. Never take this vehicle if you are under age 16.
- 4. Keep feet, legs, hands and arms inside the vehicle at all times.
- 5. Never attempt to enter or exit a moving vehicle.
- 6. Avoid standing in front of or behind vehicle.

## **12. CVT SYSTEM**



## **WARNING**

The CVT system rotates at high speeds. Creating large amounts of force on clutch components.

Do not modify any components of the CVT system. Any modification will damage the system; and cause the system to be out of balance,

The CVT housing must be securely in place during operation,

Failure to comply with this warning can result in severe injury or death.

## **CVT SYSTEM**

On OFF ROAD UTV CART, the approximate gear ratio difference between high and low range is 1:2.2. This difference in gearing affects the operation of the CVT, especially at speeds less than 7 MPH, due to the system's dependence on engine speed.

## 13. EXHAUST SYSTEM

## SYSTEM REGULATION

## TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED!

**CAUTION:** Exhaust system components are very hot during and after use of OFF ROAD UTV CART.

- Do not touch exhaust system components. Serious burns can result.
- Be especially careful when traveling through tall grass. The potential for fire exists

## **Spark Arrestor**

The exhaust pipe must be periodically purged of accumulated carbon as follows:

- 1. Remove the arrestor screw ① located on the bottom of the muffler, pull out the arrestor (the mesh) ②.
- 2. Clean the arrestor or replace it.

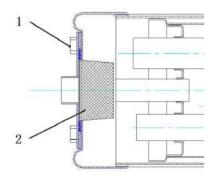


## **WARNING**

When cleaning the spark arrestor, you must follow the safe guards listed below to avoid serious injury.

- Do not perform this operation immediately after the engine has been run because the exhaust system becomes very hot.
- Keep combustible materials away from exhaust system, otherwise may cause a fire.

## 13. EXHAUST SYSTEM



## Catalyst

There is catalyst inside the muffler on all models.



## **WARNING**

The engine rpm limiter will work at 7500rpm, this may cause excessive fuel to build in the exhaust, and ignited by the catalyst in the muffler, and could lead to a silencer overheating and the risk of fire.

Always reduce throttle when the engine reach top rpm, avoid the engine popping.



# **WARNING**

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

## 14. BATTERY



## **WARNING**

Whenever removing the battery, disconnect the negative (black) cable first. When reinstalling the battery, connect the negative (black) cable last or an explosive situation could result causing serious injury or death.



## **WARNING**

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing. Antidote:

External: Flush with water.

**Internal:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

**Eyes:** Flush with water for 15minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.

# **Battery Removal**

- 1. Disconnect hold down straps holding the electrical box and battery in position and remove battery cover.
- 2. Disconnect the black (negative) battery cable first.
- 3. Disconnect the red(positive) battery cable next.
- 4. Lift the battery out of the OFF ROAD UTV CART.



## **CAUTION**

If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the OFF ROAD UTV CART.

## 14. BATTERY

## **Battery Installation and Connections**



## **WARNING**

To avoid the possibility of explosion, always connect battery cables in the order specified. Red (positive) cable first; black (negative) cable last. An exploding battery can cause serious injury or death.



## **WARNING**

Battery terminals and connections should be kept free of corrosion. If cleaning is necessary, remove the corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean rags. Coat the terminals with dialectic grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into the battery.

- 1. Set the battery in its holder.
- 2. First connect and tighten the red (positive) cable.
- 3. Second connect and tighten the black (negative) cable.
- 4. Reinstall battery cover and attach the hold down strap.
- 5. Verify that cables are properly routed.



## **CAUTION**

Your OFF ROAD UTV CART is equipped with a 30Ah Battery. This may no be sufficient to provide power for optional equipment. When installing optional equipment please upgrade your battery as necessary. See your dealer for the proper battery.

## **LOW BATTERY**

Possible Cause	Solutions
Starting a faulty engine for	See"8.STARTING THE ENGINE"
long time	And check the fuel/ air/ ignition/
	compression system
Let the main switch (key)	When stopping the engine, turn off
on while parking the OFF	the main switch (key) off at once
ROAD UTV CART	



# **WARNING**

This OFF ROAD UTV CART equipped with an electric start system. If the battery is under charging, the OFF ROAD UTV CART will not run.

#### NOTE:

The following troubleshooting does not cover all the possible causes of trouble. It should be helpful, however, as a guide to troubleshooting. Refer to the relative procedure in this manual for inspection, adjustment and replacement of parts. Adjustment and replacement must be done by your dealer.

# STARTING FAILURE/ HARD STARTING FUEL SYSTEM

#### Fuel tank

- Empty
- Clogged fuel tank breather hole
- •Fuel pump is clogged
- Deteriorated fuel or fuel containing water or foreign material

# **Electric fuel injection**

- •ECU failure or wiring faulty
- Nozzle clogging or failure
- •Throttle position sensor failure
- •EFI relay does not work

#### **COMPRESSION SYSTEM**

# Cylinder and cylinder head

- Loose spark plug
- •Loose cylinder head
- Broken cylinder head gasket
- Broken cylinder gasket
- •Worn, damaged or seized cylinder

# **Piston and Piston ring**

- Worn piston
- Worn fatigued or broken piston ring

## Valve system

- Improperly adjusted valve clearance
- •Improperly sealed valve
- Improperly contacted valve and vale seat
- •Improper valve timing
- Broken valve spring
- Seized valve

- Seized piston ring
- Seized or damaged piston

## **IGNTION SYSTEM**

## **Battery**

- Improperly charged battery
- Faulty battery

## **Fuse**

•Burnt out, improper connection

## Spark plug

- •Improper plug gap
- Worn electrodes
- •Wire between terminals broken
- •Improper heat range
- •Faulty spark plug cap

## Ignition coil

- Broken or shorted primary/ secondary coil
- Faulty high tension cord
- Broken ignition coil body

## Ignition system

- •Faulty ignitor unit
- •Faulty pick up coil
- Broken magneto woodruff key

## **Switch**

- •Faulty main switch
- Faulty brake switch

## Wiring

- Loose battery terminal
- Loose coupler connection
- Improperly grounded
- Broken wire harness

## POOR IDLE SPEED PERFORMANCE

#### **EFI**

- Loose or clogged pilot jet
- Trigger coil gap inappropriate
- Ignition loop cable failure
- •Improperly adjusted idle speed (Pilot screw), (Throttle stop screw)
- •Improperly adjusted throttle cable
- Intake pressure temperature sensor failure

## Valve system

## Air cleaner

Clogged air cleaner element

## **Ignition system**

- Faulty spark plug
- Faulty high tension cord
- Faulty ignition coil

Improperly adjusted

# POOR MEDIUM AND HIGH SPEED PERFORMANCE EFI Air cleaner

- Improperly adjusted fuel level element
- •Clogged main nozzle
- •Clogged or loose pilot jet

Clogged air cleaner

## POOR SPEED PERFORMANCE

## **Ignition system**

- Dirty spark plug
- •Improper heat range
- •EFI failure

## **Fuel system**

- •Clogged fuel tank breather hole
- •Clogged air cleaner element
- Clogged jet
- •Improperly adjusted fuel level
- •Improper carburetor air vent hose setting

## Compression system

- •Worn cylinder
- •Worn or seized piston ring
- Cylinder head gasket broken
- Cylinder gasket broken
- Carbon deposit buildup
- Improper adjusted valve clearance
- •Improper contacted valve and valve seat
- Faulty valve timing

## Clutch

•Refer to "CLUTCH SLIPPING /DRAGGING" section

# Engine oil

Improper oil level(low or over Oil level)

## Ignition system

- Faulty spark plug
- •Faulty high tension cord
- Faulty pick up coil
- Faulty ignition coil

## Valve system

Improperly adjusted valve clearance

# OVER HEATING Ignition system

- •Improperly spark plug gap
- •Improper spark plug heat rang
- •Faulty igniter unit

# OVER-COOLING Cooling system

- •Faulty temperature switch
- Water temperature regulation set incorrectly

## **Fuel system**

- •ECU setting incorrectly
- •Improper fuel level adjustment
- •Clogged air cleaner element

# Compression system

- Heavy carbon deposit build-up
- •Improperly adjusted valve timing
- •Improperly adjusted valve clearance

# Engine oil

- •Incorrect engine oil level
- •Improper engine oil quality (High viscosity)
- Low engine oil quality

#### **Brakes**

Dragging brake

## **Cooling system**

- •Tank temperature sensor failure
- Water tank fan failure

## **FAULTY CLUTCH**

# WHEN ENGINE RUN, OFF ROAD UTV CART DOES NOT RUN V belt POOR SPEED PERFORMANCE

Worn/bent/slipping

V-belt

•Worn

Cam, slider

•Oil V belt

•Worm/damaged

## **Compression spring**

Damage

Gears

Damage

## Roller weight

- Worn/improper operation primary/secondary/sheave
- Worm

## **CLUTCH SLIPPING**

Clutch weight spring

**Position** 

•Worn/loose

**Clutch shoe** 

Worn/ damaged

Primary sliding sheave

Seized

# CVT SYSTEM

**Uncorrect Primaty Clutch** 

 Uncorrect engine mount (see 13. CVT system)

# POORSTARTING PERFORMANCE

V-belt

Slipping/oily V-belt

# FAULTY BRAKE POOR BRAKING EFFECT

- Worn front hub bearing
- Worn brake pad

# **Primary sliding sheave**

- Improper operation
- Damage

## compressing spring

•Worm/loose

## Secondary sliding sheave

- Improper operation
- •Worn guide pin grove
- •Worn guide pin

## Clutch shoe

•Worn/ bent

- •Worn brake disc
- ·Air in brake fluid
- Leaking brake fluid
- •Faulty master cylinder kit
- •Faulty caliper seal kit
- Loose union bolt
- Broken brake hose
- •Oily or greasy brake pad
- •Oily or greasy brake disc

# **16. SPECIFICATION**

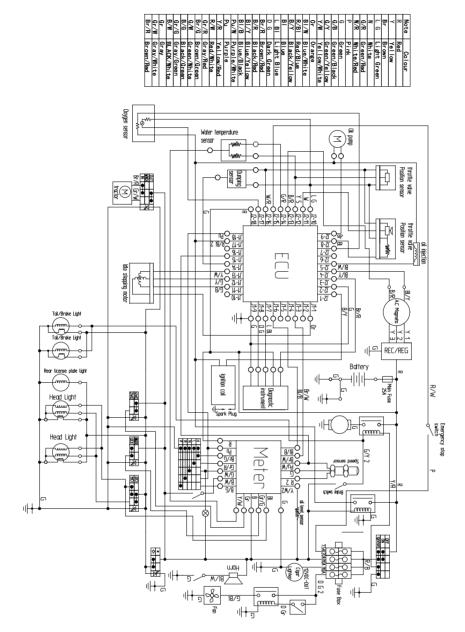
	Dimen	sions & Capacities		
LXWXH		2965×1440X2003 mm		
Seat height		830mm		
Wheel Base		1880mm		
Ground Clearance	;	260mm		
Fuel capacity		18L		
Engine Oil Capaci	ty	1.3 L		
Dry Weight		540kg		
Load Capacity		300 kg		
(Combined Rider&	k Payload)			
Rear seat maximu	ım load limit	150 kg		
Tongue Weight		11 kg		
Tow Capacity		200 kg		
	[	Orive System		
Drive System		CVT		
Front Tire		25X8-12		
Rear Tire		25X10-12		
Tire Pressure(fron	t)	138 kPa		
Tire Pressure(rear	-)	138 kPa		
	E	Brake System		
Brake	Front Brake Rear Brake	Dual Hydraulic Disc	Front and rear unified	
	Operation	Foot		
Parking Brake	<del>-</del>	Mechanical Disc		
		Suspension		
Front		MacPherson Strut		
Rear		Dual A-ARM		
shock absorber		Coil spring/oil damper		

# **16. SPECIFICATION**

**Engine** YK182MQ 4 Stroke, Single Cylinder, SOHC Engine Type Bore x Stroke 82mmx74mm Displacement 390.8cc Starter System Electric Starter **Engine Cooling** Liquid -Cooled **Lubrication System** Wet Sump EFI Ignitions Spark Plug Type DR8EA

Electrical Equipment						
Battery		12V 35AH				
Head light		12V LED 6W/9W >	(2			
Brake/ Tail	Light	12V LED 3W				
	Main Fuse	25.0 A	On The Start			
	Backup Fuse	25.0 A	Relay			
Chaoified	Ignition System Fuse	7.5 A				
Specified	Accessory Socket Fuse	10.0 A				
luses	Fan Fuse	10.0 A	In The Fuse			
	Signaling/ Lighting System Fuse	20.0 A	Box			
	Backup Fuse (1)	10.0 A				
	Backup Fuse (2)	20.0 A				

# WIRING DIAGRAM



To keep the performance good, the motorcycle should be checked and maintained at certain interval. The meanings of capital in following table are:

I: Inspection, including check, clean, lubricate, refuel, repair or replacing if necessary.

A: Adjusting C: Cleaning R: Replacing T: Tightening

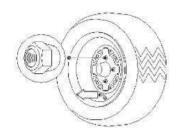
Engine Bolt	xcluding Engine	Driving chain	Brake fluid	Brake function, brake pads	Gas filter	Valve gap	Spark plug	Air filter	Lube filter	Crankcase lube	Items	Maintenang e period
	Н								С	R	300	
				I			Initi			R	1000	
				I			al 4(	<u>C</u>		R	2000	
		,	,	I			)00k	lean			2000 3000	
Н				I		A	m an	Clean filter every 2000~3000 km.	C	R	4000	
	H			I			ıd CI	eve			5000	
				I			ean	ry 2(		R	6000	
				I			ever	000~			7000	_
Н				I	R	A	y 300	3000	C	R	8000	Odor
	H			I			00~4	) km			9000	neter
				I			Initial 4000km and Clean every 3000~4000km			R	10000	Odometer (km)
				I				ange i			11000	
Н				I		Α	nange	t wh	С	R	12000	
	H			I			e it wł	en nec			13000	
				I			change it when necessary	change it when necessary		R	14000	
				I			cessa	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			15000	
		П		I			ary			Ι	check before	

The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.

## WHEEL NUT TORQUE SPECIFICATIONS

Bolt Size	Spec	ification
M12X1.25	50Ft.Lbs	69N.m

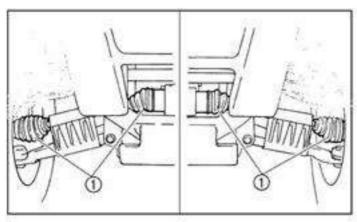
NOTE: All nuts that have a cotter pin installed must be serviced by an authorized Dealer.



## **AXLE BOOTS**

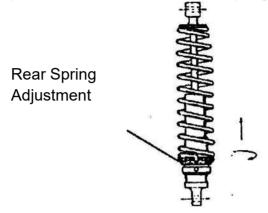
- Front Shaft Boots,
- Rear Axle (CV Joints,) Boots,

Check the protective boots for holes or tears. If any damage is found, have them replaced by an authorized dealer.



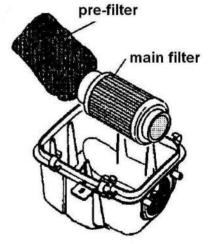
## **REAR SPRING ADJUSTMENT**

The rear shock absorber spring is adjusted by rotating the adjuster in the direction required to increase or decrease spring tension.



## **AIR FILTER SERVICE**

- Lift the cargo bed. (See 7. CONTROL AND PARTS FUNCTIONS in this manual for bed lifting and lowering.)
- 2. Release clips and remove Cover.
- 3. Loosen clamp and remove Filter.
- 4. Remove fabric type pre-filter from main filter. Wash pre-filter in soapy water and dry it.
- 5. Reinstall pre-filter over main filter. Replace main filter as required.
- 6. Reinstall filter into air box and tighten clamp. Do not over tighten clamp, Otherwise filter damage may occur.



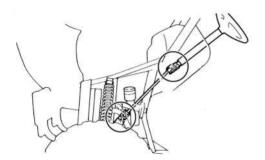
## **STEERING**

## Steering Inspection

The steering assembly of the machine should be checked periodically for loose nuts and bolts, worn tie rod ends, worn boots, and damage. Checking routing of all cables, hoses, and wiring to be sure the steering

mechanism is not restricted or limited. If any found, have your dealer repair them before riding your vehicle.

The steering assembly should be also checked periodically for free operation, steering should move freely through entire range of travel without binding. Park on level ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noises, or a rough feeling. Have an authorized dealer repair as necessary for proper operation.



## Lubricate the pivoting parts.

Recommended lubricant: Lithium-soap-based grease

## **CAMBER AND CASTER**

The camber and caster are non-adjustable.

**TOE ALIGNMENT CHECK** 



## **WARNING**

Do not attempt to adjust the tie rod for toe alignment. Severe injury or death can result from improper adjustment.

Contact your dealer. He/she has the training and tools to Make these adjustment.



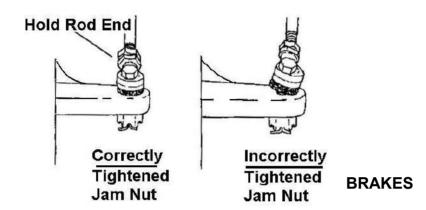
The recommended toe alignment is 1/8" to 1/4" (3 to 6mm) toe out.

- 1. Set the steering wheel in a straight ahead position and hold them in this position.
- 2. Measure A and B, A minus B should be 1/8" to 1/4" (3 to 6mm).
- 3. If this measurement needs to be adjusted, contact your dealer for service.



## **WARNING**

If the tie rod is positioned incorrectly or adjusted incorrectly, it will not pivot, may break, and may separate. Severe injury or death can result



- should be replaced. Always fill the reservoir as indicated whenever the cover is loosened or removed to insure proper diaphragm operation. Use DOT 3 brake fluid.
- Check brake system for fluid leaks.
- Check brake for excessive travel or spongy feel.
- Check friction pads for wear, damage and loosened.
- Check security and surface condition of the disc.
- Pads should be changed when friction material is worn to 3/64"(1mm).(A)

## Checking the brake fluid level

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective. 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 and/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.

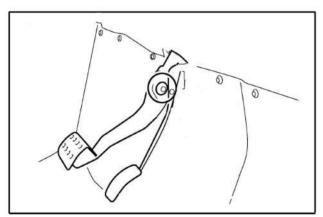
- The brake fluid reservoir is located under the hood.
- When checking the fluid level, make sure the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor braking performance.

Recommended brake fluid: DOT 3

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that 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.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- Have an authorized dealer inspect the brake system if the brake fluid level goes down.

# Brake pedal and accelerator pedal lubrication

Lubricate the pivoting parts.



Recommended lubricant: Lithium-soap-based grease (all-purpose grease)

## **PARKING BRAKE**

## Checking

Although the parking brake has been adjusted at the factory, the brake should be checked for proper operation. The mechanical brake must be maintained to be fully functional.

- 1. With the engine off, apply the parking brake lever and attempt to move the OFF ROAD UTV CART.
- 2. If the rear wheels are locked, it is adjusted properly.

3. If the wheels are not locked, it must be adjusted.

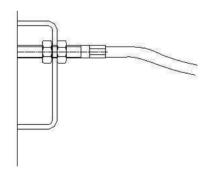
## **Adjusting**

# To adjust (set up) the mechanical parking brake, use the following procedure

**Note:** The adjusting on the caliper is for the wear out of the pads.

- 1. With the engine off, loosen the adjustor on the lever.
- 2. Loosen the jam nut of the adjuster on the caliper.
- 3. Turn the adjuster (bolt) CW (clockwise) by hand till the pad touch the brake disc, turn the adjuster bolt CCW (counterclockwise) by 1/4 to one turn for 10 to 20mm free play at the end of the parking lever.
- 4. Tighten the jam nuts securely against the adjusters.
- 5. Make sure the rear wheels turns freely without dragging.
- 6. Turn the adjustor (the one on the lever) and apply the lever. While adjusting, it is important you apply the lever back and forth for operation, free play and the locking of the parking position.
- 7. Make sure the rear wheels turns freely without dragging and parking brake works properly.
- 8. Field test for parking. It must be capable of holding the laden OFF ROAD UTV CART stationary on an 18% up and down gradient.

A temporary adjusting can also be done to the brake cable on the parking lever side by turn the adjuster (nut) directly. But the adjust range is limited. Always do the **procedure 1 to 8** when necessary.



# Throttle Free Play Inspection

- 1. Apply the parking brake.
- 2. Put gear in Neutral position.
- 3. Start the engine, and warm it up thoroughly.
- 4. Measure the distance the throttle pedal moves before the engine begins to pick up seep. Free play should be 1/16" to 1/8" (1.5-3mm).

## **Throttle Free Play Adjustment**

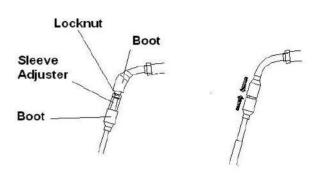
Throttle cable free play is adjusted at the cable, under the passenger seat.

- 1. Slide the boots off. Loosen adjuster locknut.
- 2. Turn adjuster until 1/16" to 1/8" (1.5 to 3mm) free play is achieved at the throttle pedal.

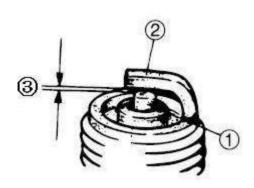
**NOTE:** While adjusting free play

it is important you flip the throttle pedal back and forth.

3. Tighten locknut and slide boots over cable adjuster.



## SPARK PLUGS



Standard spark plug: DR8EA

③ Gap: 0.8mm

## Inspect:

Insulator ①
 Abnormal color: Replace.
 Normal color is a medium-

To-light tan color.

- Electrode ②
   Wear/damage: Replace.
- Clean spark plug use spark plug cleaner or wire brush)

#### Measure:

Spark plug gap ③
 Out of specification: Adjust gap.

# **Spark Plug Removal and Replacement**



# **WARNING**

Never attempt to remove a spark plug while the engine is warm. The exhaust system or engine could burn you causing severe injury.

Remove the spark plug by rotating counterclockwise. Reverse the procedure for spark plug installation.

Torque to 17ft.lbs (23N.m).

If you want to know more about maintenance details, please refer to the following table  $_{\circ}$ 

Due to the nature of the adjustments marked with a  $\boxed{\textbf{D}}$  on the following chart, it is recommended that service be performed by an authorized dealer.

 More often under severe use, such as dirty or wet conditions to purge water or dirt contamination from grease fittings and other critical components.

## PERIODIC MAINTENANCE SCHEDULE

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication intervals of important components are explained in the following chart on the following pages.

#### NOTE:

Maintenance intervals are based upon average riding conditions and an average vehicle speed of approximately 16 km/h. However, keep in mind that if the vehicle isn't used for a long period of time, the month maintenance intervals should be followed.

Vehicles subjected to severe use, such as operation in wet or dusty areas, should be inspected and serviced more frequently.

Inspect, clean, lubricate, adjust or replace parts as necessary.

### NOTE:

Inspection may reveal the need for replacement parts. Always use genuine parts available from your dealer.

Service and adjustments are critical. If you are not familiar with safe service and adjustment procedures, ask for a qualified dealer perform these operations.

# OWNER'S/OPERATOR'S MANUAL

# **18. MAINTENANCE**

	Item	Hours	When	Remarks
•	Brake System	Pre-ride	Pre-ride	Pre-ride inspection item
	Accelerator pedal	Pre-ride	Pre-ride	Inspect –adjust, lubricate,
				replace if necessary; pre-ride
				inspection item
	Fuel System	Pre-ride	Pre-ride	Check for leaks at tank cap,
				lines, fuel valve, filter, and
				carburetor.
	Tires	Pre-ride	Pre-ride	Inspect daily, pre-ride inspection
				item
•	Front and Rear Wheels/	Pre-ride	Pre-ride	Pre-ride inspection item
	Hubs			
•	Steering	Pre-ride	Pre-ride	Inspect daily, lubricate
D	Wheels bearings	10 hrs	Monthly	Check for looseness/ damage.
				Replace if damaged.
	Frame nuts, bolts	Pre-ride	Pre-ride	Pre-ride inspection item
	fasteners			
•	Air Filter-Pre-Cleaner	Daily	Daily	Inspect-Clean
	Coolant/Level Inspection	Daily	Daily	Replace engine coolant every
	Air Day Cadina and Tale	Daile	Delle	one year
	Air Box Sediment Tube	Daily	Daily	Drain deposits whenever visible
	Headlamp Inspection	Daily	Daily	Check operation daily; apply
				dielectric grease to connector
	Tail/ indicator lamp	Doily	Doily	when replaced
		Daily	Daily	Check operation daily; apply
	inspection			dielectric grease to socket when replaced
	Air Filter-Main Element	Weekly	Weekly	Inspect –Replace if necessary
	Transmission Oil Level	20 hrs	Monthly	Inspect monthly; change
	Transmission on Level	201113	ivioritiny	annually
	Battery	20 hrs	Monthly	Check/clean Terminals; check
				fluid level
D	Brake pad wear	10 hrs	Monthly	Inspect periodically
	Front/Rear axle Gear	100 hrs	Monthly	Check yearly or every 100 hours
	case Oil			
	Engine Cylinder Head	25 hrs	3 months	Inspect (re-torque required at
	and Cylinder Base			first service only)
	Fasteners			

# OWNER'S/OPERATOR'S MANUAL

# **18. MAINTENANCE**

•	General Lubrication	50 hrs	3 months	Lubricate all fittings, pivots, cables, etc.
	Engine	30 hrs	3 months	Check Level Daily; Break in
•	Oil-Level/Change			Service at 1 month. Change oil
	3			more often in cold weather use.
•	Dipstick	50 hrs	6 months	Inspect-clean
	Engine breather hose	100 hrs	6 months	Inspect
	Throttle Cable/	20 hrs	monthly	Inspect –adjust, lubricate,
D	Accelerator pedal			replace if necessary; pre-ride
				inspection item
	Shift linkage	50 hrs	6 months	Inspect, adjust
D	Drive belt	50 hrs	6 months	Inspect, replace if
				necessary
	Steering system	50 hrs	6 months	Check operation and for
				looseness, worn, damage,
D				binding feeling / Adjust, repair,
				Replace if necessary.
				Check toe alignment /Adjust if
				necessary.
		_	_	•
	Toe alignment adjustment	As	As	Periodic inspection,
D	Toe alignment adjustment	As required	As required	Periodic inspection, adjust when parts are
		required	required	Periodic inspection, adjust when parts are replaced
D	Shaft	required 50 hrs	required 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage.
	Shaft Axle	required 50 hrs 50 hrs	required 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube
	Shaft	required 50 hrs	required 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage.
	Shaft Axle Front Prop Shaft & Shaft	required 50 hrs 50 hrs	required 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube
	Shaft Axle Front Prop Shaft & Shaft Yoke	required 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage.
	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft	required 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/
	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots	required 50 hrs 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage.
	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots	required 50 hrs 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners Inspect, tighten fasteners
	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots Front Suspension	required 50 hrs 50 hrs 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners
	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots Front Suspension Rear Suspension Spark Plug	required 50 hrs 50 hrs 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months 6 months 6 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners Inspect, tighten fasteners
•	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots Front Suspension Rear Suspension	required 50 hrs 50 hrs 50 hrs 50 hrs 50 hrs	required 6 months 6 months 6 months 6 months 6 months 12 months 12	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners Inspect, tighten fasteners Inspect-replace if necessary Inspect and adjust as
	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots Front Suspension Rear Suspension Spark Plug	required 50 hrs 50 hrs 50 hrs 50 hrs 50 hrs 100 hrs	required 6 months 6 months 6 months 6 months 6 months 12 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners Inspect, tighten fasteners Inspect-replace if necessary Inspect and adjust as needed
• • • •	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots Front Suspension Rear Suspension Spark Plug	required 50 hrs 50 hrs 50 hrs 50 hrs 50 hrs 100 hrs	required 6 months 6 months 6 months 6 months 6 months 12 months 12	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners Inspect, tighten fasteners Inspect-replace if necessary Inspect and adjust as needed Check for leaks at tank
•	Shaft Axle Front Prop Shaft & Shaft Yoke Rear Prop Shaft, Shaft Yoke & Boots Front Suspension Rear Suspension Spark Plug Ignition Timing	required 50 hrs 50 hrs 50 hrs 50 hrs 50 hrs 100 hrs	required 6 months 6 months 6 months 6 months 6 months 12 months 12 months	Periodic inspection, adjust when parts are replaced Check for looseness/ damage. Inspect bearings, Lube Check for looseness/ damage. Check for/ boots/ looseness/ damage. Inspect-lubricate, tighten fasteners Inspect, tighten fasteners Inspect-replace if necessary Inspect and adjust as needed

				one year
D	Fuel Filter	100 hrs	12 months	Replace annually
	Radiator	100 hrs	12 months	Inspect/clean external surface
	Spark arrestor	50 hrs	3 months	Clean out-replace if necessary
D	Clutches (drive and driven)	25 hrs	3 months	Inspect, clean
	Engine mounts	25 hrs	3 months	Inspect
D	Valve clearance	100 hrs	12 months	Inspect/adjust
D	Brake fluid	200 hrs	24 months	Change every two years
	Idle Speed	As required	As required	Adjust
	Headlight Aim	As required	As required	Adjust if necessary

# **LUBRICATION RECOMMENDATIONS**

Item	Lube Rec	Method	Frequency
1. Engine	SAE	Add to proper	Check level daily
Oil	15W/40SG	level on dipstick	
2.Brake Fluid	DOT 3 Only	Maintain level	As require;
		Between fill lines. See	change
		"7.CONTROL"	every two years
			or 200 hours
3.Transmission Oil	SAE	Add to proper	Change annually
	80W/90GL5	level on dipstick	or at
			100 hours
4. Front/Rear axle	SAE	Front axle: 250ml	Change annually
Gear case Oil	80W/90GL5	Rear axle: 450ml	or at
			100 hours

	Item	Lube Rec	Method	Frequency
•	5.Steering system	Grease	Lubricate the pivoting	Every 3 months

			and sliding parts	or 50 hours
•	6.Shift	Grease	Locate fittings	Semi-annually
	Linkages		and Grease	
•	7.Front Wheel	Inspect	Inspect and replace	Semi-annually
	bearings		bearings if	
			necessary	
•	8.Ball joints	Grease	Inspect, Locate fittings	Semi-annually
			and Grease, or replace	
			it if necessary	
•	9.Prop Shaft & Shaft	Grease	Locate fitting and	Semi-annually
	Yoke, Spline Joint		Grease	
•	10.Rear Axle	Grease	Grease	Every 3 months
	Bearing			or 50 hours
•	11.Swing Arm	Grease	Grease	Monthly or 20
	Bearing			hours
•	12.Throttle Cable	Grease M	Grease, inspect	Monthly or 20
			and replace it if	hours
			necessary	
•	13. Accelerator pedal	Grease	Grease, inspect	Monthly or 20
	and brake pedal			hours

## NOTE:

- 1. More often under severe use, such as wet or dusty conditions .
- 2. Grease: Light weight lithium-soap grease.
- 3. Grease M: molybdenum disulfide(MoS<sub>2</sub>) grease(water resistant).
- 4. \*When suspension action becomes stiff or after washing.
- 5. Hours are based on 10 mph(16Km/h) average.