

**READ THIS MANUAL CAREFULLY!**  
It contains important safety information

**CF500-B/CF600-B TYPE I**  
**CF500-C/CF600-C TYPE II**

**4 × 4**

**OWNER'S MANUAL**

**This ATV should not be ridden by anyone under 16 years of age.  
Passengers under 12 are prohibited.  
This ATV is an off-road vehicle.**

# **⚠️ WARNINGS FOR TYPE I ATV**

**APPLICABLE TO ALL B MODELS**

**Improper vehicle use can result in SEVERE INJURY or DEATH**



**ALWAYS USE  
AN APPROVED  
HELMET AND  
PROTECTIVE  
GEAR**



**NEVER USE  
ON PUBLIC  
ROADS**



**NEVER CARRY  
PASSENGERS**



**NEVER USE  
WITH DRUGS  
OR ALCOHOL**

## **NEVER:**

- Operate without proper training or instruction.
- Operate on public roads. A collision can occur with another vehicle.
- Operate at speeds too fast for your skill or the conditions.
- Never carry passenger, Type I ATVs are designed for a single operator no passengers.
- Use ALCOHOL or DRUGS before or while driving this vehicle.

## **ALWAYS:**

- Avoid paved surfaces, which may adversely affect the handling and control.
- Use proper riding techniques to avoid vehicle overturn on hills and rough terrain, and when turning.
- Wear eye protection, helmet and protective clothing.

READ THE OWNER'S MANUAL.

FOLLOW ALL INSTRUCTIONS AND WARNINGS.

# **⚠️ WARNINGS FOR TYPE II ATV**

**APPLICABLE TO ALL C MODELS**

**Improper vehicle use can result in SEVERE INJURY or DEATH**



**ALWAYS USE  
AN APPROVED  
HELMET AND  
PROTECTIVE  
GEAR**



**NEVER USE  
ON PUBLIC  
ROADS**



**NEVER CARRY  
MORE THEN  
ONE  
PASSENGER**



**NEVER USE  
WITH DRUGS  
OR ALCOHOL**

## **NEVER:**

- Operate without proper training or instruction.
- Operate on public roads. A collision can occur with another vehicle.
- Operate at speeds too fast for your skill or the conditions.
- Use ALCOHOL or DRUGS before or while driving this vehicle.
- Never carry more than one passenger.

## **ALWAYS:**

- Avoid paved surfaces, which may adversely affect the handling and control.
- Use proper riding techniques to avoid vehicle overturn on hills and rough terrain, and when turning.
- Wear eye protection, helmet and protective clothing.

READ THE OWNER'S MANUAL.

FOLLOW ALL INSTRUCTIONS AND WARNINGS.

## **⚠ WARNING**

**Read, understand, and follow all of the instructions and safety precautions in this manual and on all product labels. Failure to follow the safety precautions could result in serious injury or death.**

## **⚠ WARNING**

**The engine exhaust gas from this product contains CO, which is deadly gas and could cause headaches, giddy, or lose consciousness, even death.**

A card containing important ATV safety information should be attached to the owner's manual on the next page. If you cannot locate this card, or if it has been removed, please contact your dealer.

# INTRODUCTION

Thank you for purchasing a CFMOTO vehicle, and welcome to join our worldwide family of CFMOTO owners.

We proudly produce an exciting line of utility and recreational products.

- All terrain vehicle (ATV).
- Utility vehicle (patrol, forest protecting and hunting).
- Motorcycles and scooters.

CFMOTO, a company which is specialized in production of liquid-cooled engine, is the top-level supplier in China. Compared to same displacement of air-cooled engine, engine cooling effect is better, oil temperature can be adjusted more freely, more powerful and lower fuel consumption, longer engine working life.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance. Information about major repairs are outlined in the CFMOTO service manual, and should be performed only by CFMOTO service dealer and technician.

Your CFMOTO dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service.

Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only.

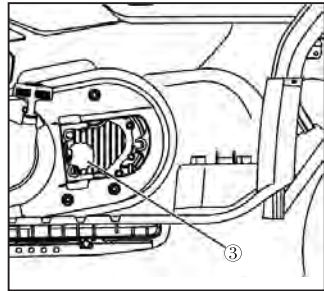
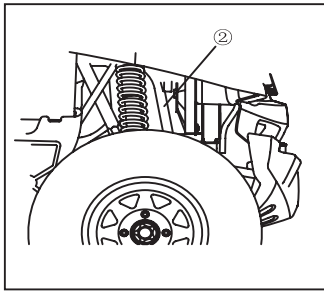
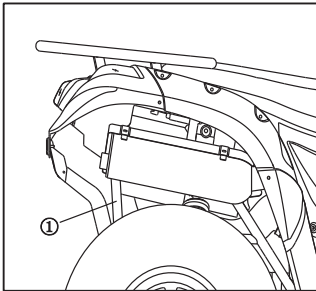
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# VEHICLE IDENTIFICATION NUMBERS

Record your ATV's identification numbers in the spaces provided. Remove the spare key and store it in a safe place. Your key can be duplicated by using one of you existing keys. If you lose both, you will require a replacement ignition barrel and keys.



1. Frame VIN: \_\_\_\_\_

2. Vehicle Model Number: \_\_\_\_\_

3. Engine Serial Number: \_\_\_\_\_

# OPERATOR SAFETY

## **⚠ WARNING**

Failure to heed the warnings contained in this manual can result in serious injury or death. An ATV is not a toy and can be hazardous to operate. This vehicle handles differently from other vehicles, such as motorcycles and cars.

Read this owner's manual. Understand all safety warnings, precautions, and operating procedures before operating an ATV.

A collision or rollover can occur quickly, even during routine maneuvers, like turning, or over obstacles, if you fail to take proper precautions.

## **AGE RESTRICTIONS**

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under the age of 16.

## **KNOW YOUR VEHICLE**

As the operator of the vehicle, you are responsible for your personal safety, the safety of others, and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

When you purchased your new ATV, your dealer offered a hands-on safety-training course that covers all the aspects of vehicle safety. You were also provided with printed material that explains safe operating procedures.

# OPERATOR SAFETY

## SAFETY TRAINING

When you purchased your new ATV, your dealer offered a hands-on safety-training course that covers all aspects of vehicle safety. You were also provided with printed materials that explain safe operating procedures. You should review this information on a regular basis. If you purchased a used ATV from a party other than a dealer, you can request this free safety training from any authorized dealer.

Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area.

We strongly advise you to strictly follow the recommended maintenance program outlined in your owner's manual. This preventive maintenance program is designed to ensure that all critical components on your vehicle are thoroughly inspected at specific intervals. The following signal words and symbols appear throughout this manual and on your ATV. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

## **⚠ WARNING**

The safety alert symbol below indicates a potential personal injury hazard or death and or damage to the vehicle.

# OPERATOR SAFETY

## **⚠ CAUTION**

A caution indicates a situation that may result in damage to the vehicle.

## **⚠ NOTE**

A note will alert you to important information or instructions.

## **⚠ WARNING**

Serious injury or death can result if you don't follow these instructions and procedures, which are outlined in further detail within your owner's manual.

- Read this manual and all labels carefully, and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized ATV dealer to find out about the training courses nearest you.
- Never allow anyone under 16 years of age to operate this ATV.
- Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety-training course.
- Never operate an ATV without wearing an approved helmet that fits properly. Always wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating an ATV.
- Never attempt wheelies, jumps or other stunts.

## OPERATOR SAFETY

- Always inspect your ATV before each use to make sure it is in safe operating condition.
- Always follow the inspection and maintenance procedures and schedules outlined in your owner's manual.
- Always keep both hands on the handlebars and both feet on the foot-rests of the ATV during operation.
- Always travel slowly and use extra caution when operating on unfamiliar terrain.
- Be alert to changing terrain conditions.
- Never operate on excessively rough, slippery, or loose terrain.
- Always follow proper turning procedures as described in this manual. Practice turning your ATV at low speeds, before attempting to turn at faster speeds. Do not turn at excessive speeds.
- Always have the ATV inspected by an authorized dealer if it's been involved in an accident.
- Never operate on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills. Check the terrain carefully before ascending a hill.
- Never climb hills with excessively slippery or loose surfaces. Shift your weight forward.
- Never open the throttle suddenly or make sudden gear changes. Never go over the top of a hill at high speed.
- Always follow proper procedures for going downhill and for braking on hills. Check the terrain carefully before you start down a hill. Shift your weight backward.

## OPERATOR SAFETY

- 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. Travel straight down the hill when possible.
- Always follow proper procedures for crossing the side of a hill. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you' have mastered (on level ground) the turning technique outlined in this manual.
- Avoid crossing the side of a steep hill when possible.
- Always use proper procedures if you stall or roll backwards while 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 dismount on the uphill side, or to either side if the ATV is pointed straight uphill. Turn the ATV around and remount following the procedure described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces like ice, travel slowly and use extra caution to reduce the chance of skidding or sliding out of control.
- Avoid operating the ATV through deep or fast-flowing water. If it is unavoidable, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion.
- Do not make sudden turns or stops, and do not make sudden throttle changes.

## **OPERATOR SAFETY**

- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them lightly several times to allow friction to dry out the pads.
- Always check for obstacles or people behind the ATV before operating in reverse. When it is safe to proceed in reverse, move slowly and avoid turning at sharp angles.
- Always use the size and type of tires specified for your ATV, and always maintain proper tire pressure.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for your ATV. Cargo must be properly distributed and securely attached. Reduce speed and follow the instructions in this manual for carrying cargo or towing. Allow a greater distance for braking.
- Always remove the ignition key when the vehicle is not in use to prevent unauthorized use or accidental starting.
- Child or pets cannot be carried on the racks.
- Never touch running parts, such as wheels, drive shaft, etc.

**FOR MORE INFORMATION ABOUT ATV SAFETY, PLEASE CONTACT WITH YOUR DEALER.**

# OPERATOR SAFETY

## EQUIPMENT MODIFICATIONS

We are concerned with the safety of our customers and for the public. Therefore, we strongly recommend that consumers do not install on an ATV any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of body injury. The warranty on your ATV is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increases its speed or power.

**⚠ NOTE:** The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers, or large racks, may change the handling characteristics of the vehicle. Use only approved accessories and familiarize yourself, with their function, and effect on the vehicle.



# OPERATOR SAFETY

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Operating this ATV without proper instruction.

### **WHAT CAN HAPPEN**

The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

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

Beginning and inexperienced operator should complete the certified training course offered by dealer. Operators should regularly practice the skills learned in the course and the operating techniques described in the owner's manual.

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Failure to follow the age recommendations for this ATV.

### **WHAT CAN HAPPEN**

Severe injury and/or death could occur if a child under the minimum age recommendation operates an ATV. Even though a child may be within the recommended age group for operating some ATVs, he/she may not have the skills, abilities or judgment needed to operate an ATV safely and could be susceptible to accident or injury.

### **HOW TO AVOID THE POTENTIAL**

Operation is prohibited for anyone less than 16 years of age.

# OPERATOR SAFETY

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Carrying passengers more than the rated passenger capacity.

### **WHAT CAN HAPPEN**

This is a 2-person ATV. Only 1 passenger is allowed. Carrying 2 or more passengers greatly reduces the operator's ability to balance and control the ATV, which could cause an accident and injury to the operator and/or passengers.

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

Never carry 2 or more passengers on this ATV.

## **⚠ WARNING**

### **POTENTIAL HAZARD**

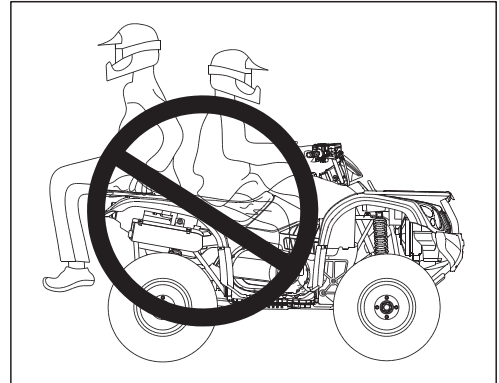
Carrying a passenger on the rear rack.

### **WHAT CAN HAPPEN**

A passenger riding in the rear rack could be ejected, from the vehicle unexpectedly, or may contact moving components; both of which can result in severe injury or death.

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

Never allow passengers to ride in the rear rack.



# OPERATOR SAFETY

## **▲ WARNING**

### **POTENTIAL HAZARD**

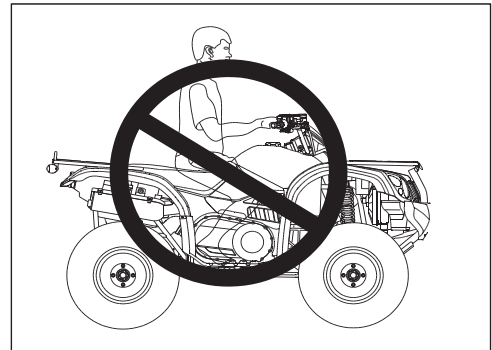
Operating this ATV without wearing an approved helmet, eye protection, and protective clothing.

### **WHAT CAN HAPPEN**

Operating an ATV without an approved helmet increases the risk of a severe head injury or death in the event of an accident. Operating without eye protection could result in an accident and could increase the chance of a severe eye injury in the event of an accident.

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

Always wear an approved helmet that fits properly. Always wear eye protection (goggles or face shield), gloves, long-sleeved shirt or jacket, and long pants.



# OPERATOR SAFETY

## **⚠ HAZARD**

### **POTENTIAL HAZARD**

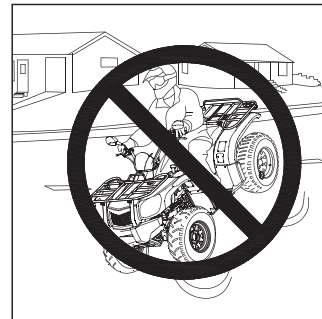
Operate on sidewalks, parking areas or streets.

### **WHAT CAN HAPPEN**

ATV tire is designed only for off-road condition. Driving on roads will possibly cause out of control, ATV operation and/or accident.

### **HOW TO AVOID HAZARD**

Never drive on roads. In case it is unavoidable, Slow down vehicle speed and do not make a sudden turn and/or braking.



## **⚠ HAZARD**

### **POTENTIAL HAZARD**

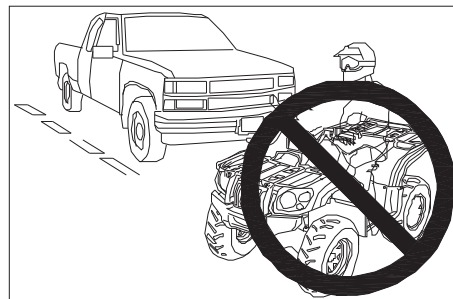
Operate on sidewalks, parking areas or streets.

### **WHAT CAN HAPPEN**

It is possible to cause a traffic accident.

### **HOW TO AVOID HAZARD**

Never operate ATV on any public streets, roads or highways (including sand gravel roads) . It is not legal to drive on public streets, roads or highways in many countries.



## OPERATOR SAFETY

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating the ATV after consuming alcohol or drugs.

#### **WHAT CAN HAPPEN**

Consumption of alcohol and/or drugs could seriously affect operator judgment. Reaction time may be slower and operator balance and perception could be affected.

Consumption of alcohol and/or drugs before or while operating an ATV, could result in an accident causing severe injury or death.

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

Never consume alcohol or drugs before or while operating an ATV.



### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating the ATV at excessive speeds

#### **WHAT CAN HAPPEN**

Excessive speed increases the operator's chance of losing control of the ATV, which can result in an accident.

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

Always operate the ATV at a speed that is proper for the terrain, visibility and operating conditions, and your experience.

## OPERATOR SAFETY

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

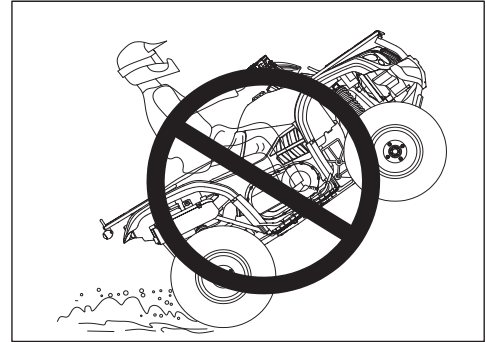
Attempting wheelies, jumps and other stunts.

#### **WHAT CAN HAPPEN**

Attempting stunts increases the chance of an accident including an overturn.

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

Never attempt wheelies, jumps, or other stunts.  
Avoid exhibition driving.



### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Failure to inspect the ATV before operating. Failure to properly maintain the ATV.

#### **WHAT CAN HAPPEN**

Poor maintenance increases the possibility of an accident or equipment damage.

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

Always inspect your ATV before each use to make sure it's in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the owner's manual.

# OPERATOR SAFETY

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Removing hands from the handlebars or feet from the footrests during operation.

### **WHAT CAN HAPPEN**

Removing even one hand or foot can reduce ability to control the vehicle or could cause loss of balance and ejection from the ATV. If the operator's foot is not firmly planted on the footrest, it could come into contact, with the rear wheels and lead to accident or injury.

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

Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Failure to use extra caution when operating the ATV on unfamiliar terrain.

### **WHAT CAN HAPPEN**

Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn.

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

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.

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## OPERATOR SAFETY

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

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

#### **WHAT CAN HAPPEN**

Operating on excessively rough, slippery, or loose terrain could cause loss of traction or loss of control, which could result in an accident or 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 ATV on such terrain. Always use extra caution on rough, slippery, or loose terrain.



### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Turning improperly.

#### **WHAT CAN HAPPEN**

Improper turns could cause loss of control and lead to a collision or overturn.

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

Always follow proper procedures or turning as described in the owner's manual. Practice turning at slower speeds before attempting to turn at faster speeds. Never turn at excessive speed.



## OPERATOR SAFETY

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating on excessively steep hills.

#### **WHAT CAN HAPPEN**

The vehicle may overturn.

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

Never operate on hills too steep for the ATV or for your abilities.

Never operate the ATV on hills steeper than 22°. Practice on smaller hills before attempting large hills.

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Climbing hills improperly.

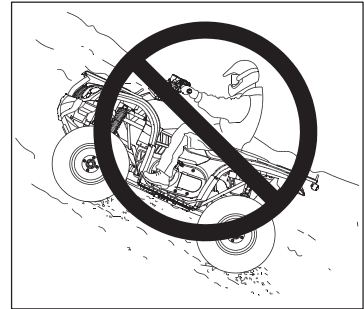
#### **WHAT CAN HAPPEN**

Improper hill climbing could cause loss of control or overturn.

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

Always follow proper procedures for climbing hills as described in the owner's manual.

Always check the terrain carefully before ascending any hill. Never operate the ATV on hills steeper than 22°. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly while traveling uphill. The ATV could flip over backwards. Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



## OPERATOR SAFETY

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Traveling downhill improperly.

#### **WHAT CAN HAPPEN**

Improperly descending a hill could cause loss of control or overturn.

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

Always follow proper procedures for travelling down hills as described in the owner's manual.



### **⚠ NOTE:**

A special technique is required when braking while traveling downhill. See page 72. Always check the terrain carefully before descending a hill. Shift your weight backward. Never travel down a hill at high speed. Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.

# OPERATOR SAFETY

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Improperly crossing hills and turning on hills.

### **WHAT CAN HAPPEN**

Improperly crossing or turning on hills could cause loss of control or overturn.

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

Never attempt to turn the ATV around on any hill until you have mastered the turning technique (on level ground) as described in the owner's manual.

See page 72.

Use extra caution when turning on any hill. Avoid crossing the side of a steep hill.

### **WHEN CROSSING THE SIDE OF A HILL**

Always follow proper procedures as described in the owner's manual.

Avoid hills with excessively slippery or loose surfaces. Shift your weight to use uphill side of the ATV.



# OPERATOR SAFETY

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Stalling, rolling backwards, or improperly dismounting while climbing a hill.

### **WHAT CAN HAPPEN**

The vehicle could overturn.

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

Maintain steady speed when climbing a hill

Keep your weight uphill. Apply the front brake. When fully stopped, apply the rear brake as well, then shift the gear to parking.

### **IF THE ATV BEGINS ROLLING BACKWARD:**

Keep weight uphill. Never apply engine power.

Never apply the rear brake while rolling backwards. Apply the front brake. When fully stopped, apply the rear brake as well, and shift the gear to parking. Dismount on uphill side, or to either side if ATV is pointed straight uphill. Turn the ATV around and remount, following the procedure described in the owner's manual. See Page 72.



# OPERATOR SAFETY

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Improperly operating over obstacles.

### **WHAT CAN HAPPEN**

Operating over obstacles could cause loss of control or overturn.

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

Before operating in a new area, check for obstacles. Avoid operating over large obstacles such as rocks and fallen trees when possible. If unavoidable, use extreme caution and always follow proper procedures as outlined in the owner's manual.

## **⚠ WARNING**

### **POTENTIAL HAZARD**

Skidding or sliding.

### **WHAT CAN HAPPEN**

Skidding or sliding can cause loss of control. If the tires regain traction unexpectedly, the ATV could overturn.

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

On slippery surface such as ice, travel slowly and use extra caution to reduce the chance of skidding or sliding out of control.

## OPERATOR SAFETY

### **▲ WARNING**

#### **POTENTIAL HAZARD**

Overloading the ATV or carrying/towing cargo improperly.

#### **WHAT CAN HAPPEN**

Overloading and towing can cause changes in vehicle handling, which could lead to loss of control or an accident.

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

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer. Allow a greater distance for braking. Always follow the instructions in the owner's manual for carrying cargo or pulling a trailer. See page 67.

### **▲ WARNING**

#### **POTENTIAL HAZARD**

Operation the ATV through deep or fasten-following water.

#### **WHAT CAN HAPPEN**

Tires may float, causing loss of traction and loss of control, which lead to an accident or overturn.

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

Avoid operating the ATV through deep or fast-flowing water. If it is unavoidable to enter water that exceeds the recommended maximum depth (see page 73), travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes. Wet brakes may

## OPERATOR SAFETY

have reduced stopping ability. Always test the brakes after leaving water. If necessary, apply brakes several times to dry out the pads.

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Improperly operating in reverse.

#### **WHAT CAN HAPPEN**

The ATV could collide with an obstacle or person, resulting in severe injury.

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

Before shifting into reverse gear, always check for obstacles or people behind the ATV. When it is safe to proceed, back slowly.

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating this ATV with improper tires, or with improper or uneven tire pressure.

#### **WHAT CAN HAPPEN**

Use of improper tires, or operation of the ATV with improper or uneven tire pressure, could cause loss of control or accident.

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

Always use the size and type of tires specified in the owner's manual for the ATV. Always maintain proper tire pressure.

## OPERATOR SAFETY

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating the ATV with improper modifications.

#### **WHAT CAN HAPPEN**

Improper installation of accessories or modification of the ATV may cause changes in handling which could lead to an accident.

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

Never modify the ATV through improper installation or use of accessories. All parts and accessories added to the vehicle must be genuine parts or equivalent components designed for use on this ATV and should be installed and used according to approved instructions. Consult your dealer for more information.

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating on frozen bodies of water.

#### **WHAT CAN HAPPEN**

Severe injury or death can result if the ATV and or the operator fall through the ice.

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

Never operate the ATV on a frozen body of water.

### **⚠ WARNING**

Leaving the keys in the ignition can lead on unauthorized use of the vehicle resulting in serious injury or death. Always remove the ignition key when the vehicle is not in use.



## OPERATOR SAFETY

### **⚠ WARNING**

After any overturn or accident, have a qualified service dealer inspect the entire vehicle for possible damage, including (but not limited to) brakes, throttle and steering systems.

### **⚠ WARNING**

Safe operation of this rider-active vehicle requires good judgment and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturn and loss of control, which could result in severe injury or death.

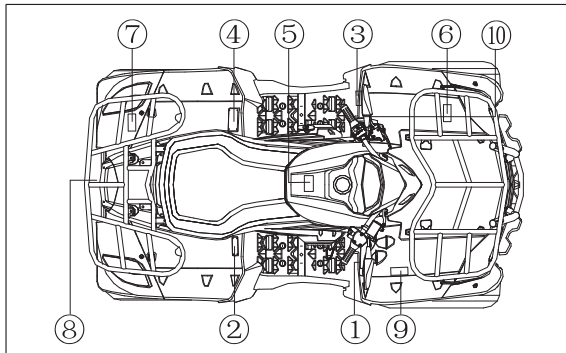
### **⚠ WARNING**

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause serious burns and fire. **DO NOT TOUCH** hot exhaust system components. Always keep combustible materials away from the exhaust system. Use caution when traveling through tall grass, especially dry grass.

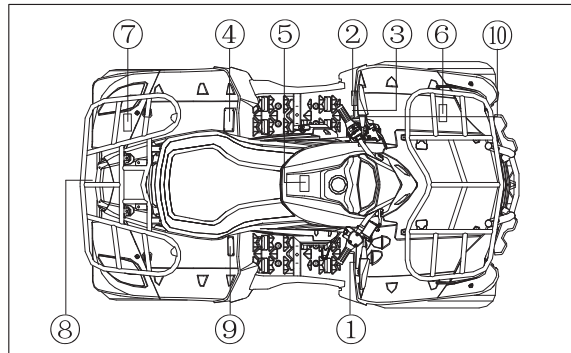
# SAFETY DECALS AND LOCATIONS

Warning decals have been placed on the ATV for your protection. Read and follow the instructions on each decal carefully. If a decal becomes illegible or comes off, contact your dealer to purchase a replacement.

SAFETY DECALS AND LOCATIONS TYPE I



SAFETY DECALS AND LOCATIONS TYPE II



# SAFETY DECALS AND LOCATIONS

①

**⚠ WARNING**

Improper ATV use can result in **SEVERE INJURY** or **DEATH**.



**ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR**      **NEVER USE ON PUBLIC ROADS**      **NEVER CARRY PASSENGERS**      **NEVER USE WITH DRUGS OR ALCOHOL**

**NEVER operate :**

- without proper training or instruction.
- at speeds too fast for your skills or the conditions.
- on public roads - a collision can occur with another vehicle.
- with a passenger - passengers affect balance and steering and increase risk of losing control.

**ALWAYS :**

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- avoid paved surfaces - pavement may seriously affect handling and control.

**LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS.**

TYPE I

**⚠ WARNING**

Improper use can result in **SEVERE INJURY** or **DEATH**



**ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR FOR DRIVER AND PASSENGER**      **NEVER USE ON PUBLIC ROADS**      **NEVER CARRY MORE THAN 1 PASSENGER**      **NEVER USE WITH DRUGS OR ALCOHOL**

**NEVER operate :**

- without proper ATV training or instruction.
- at speeds too fast for your skills or the conditions.
- on public roads - a collision can occur with another vehicle.
- with a passenger unless passenger seat is securely in place.

**THE OPERATOR MUST ALWAYS :**

- use proper riding techniques to avoid overturns on hills and rough terrain and in turns
- avoid paved surfaces - pavement may seriously affect handling and control
- reduce speed and use extra caution at all times when carrying a passenger - dismount passenger when conditions require
- make sure passenger reads and understands this label and passenger safety label

**LOCATE AND READ OPERATOR'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS**

TYPE II

# SAFETY DECALS AND LOCATIONS

②

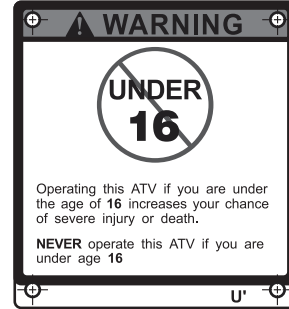


TYPE I



TYPE II

③



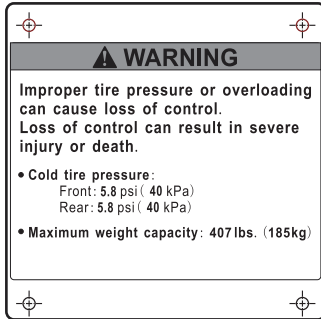
TYPE I



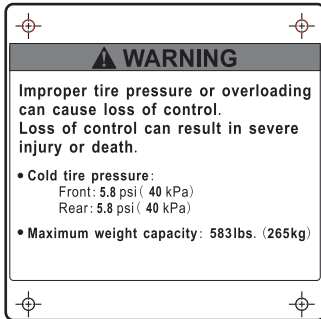
TYPE II

# SAFETY DECALS AND LOCATIONS

④



TYPE I



TYPE II

⑤



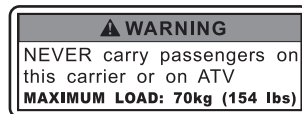
## SAFETY DECALS AND LOCATIONS

⑥



TYPE I

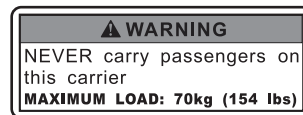
⑦



TYPE I



TYPE II



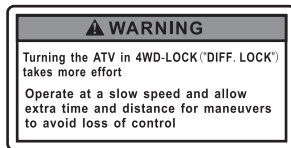
TYPE II

⑧

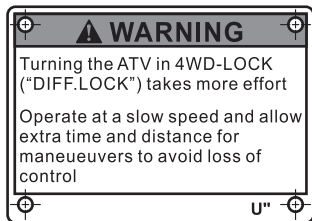
MAXIMUM LOADING LIMIT	
PULLING LOAD :	1470 N (150 kgf) 330 lbs
TONGUE WEIGHT :	294 N (30 kgf) 66 lbs

# SAFETY DECALS AND LOCATIONS

9

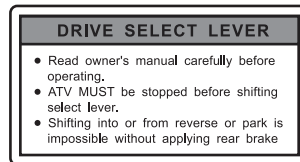


TYPE I



TYPE II

10



## SAFE RIDING GEAR

Always wear clothing suited to the type of riding. ATV riding requires special protective clothing for comfort and to reduce the chance of injury.

### 1. HELMET

Your helmet is the most important piece of protective gear for safe riding. An approved helmet can prevent a severe head injury.

### 2. EYE PROTECTION

Do not depend on sunglasses for proper eye protection. A pair of goggles or a helmet face shield offers the best protection for your eyes. They should be kept clean and be shatterproof design.

### 3. GLOVES

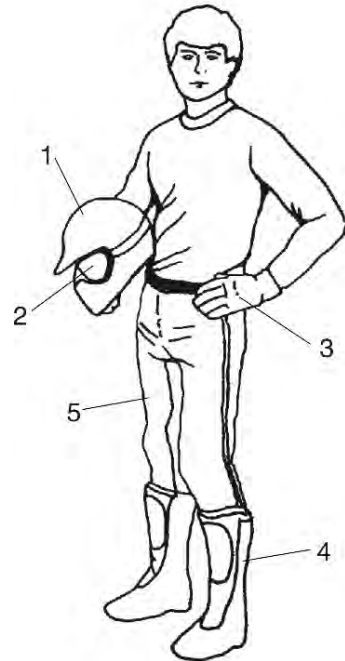
Off- road style gloves with knuckle pads are the best for comfort and protection.

### 4. BOOTS

The best footwear is a pair of strong over- the- calf boots with heels, like moto-cross boots.

### 5. CLOTHING

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.





# FEATURES AND CONTROLS

## **⚠ WARNING**

Activating the override switch while the throttle is open can cause loss of control, resulting in severe injury or death. Never press the override switch while the throttle is OPEN.

### **1. Override Switch**

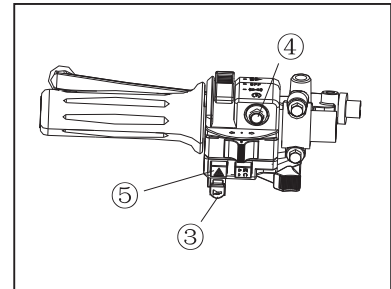
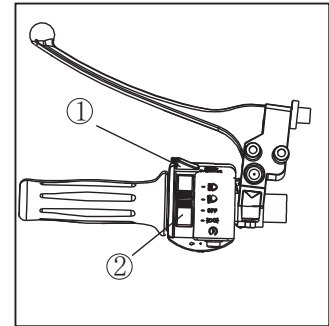
Top speed is limited when in 4WD-LOCK condition. If more engine power is required when riding, push and hold this switch to override the 4WD-LOCK speed limit. (Refer to page 76 for detailed explanation about the override switch)  
Speed limit restores when the switch is released.

### **2. Headlight Switch**

Headlight switch consists of four positions:

1. “☰○”
2. “☷○”
3. “OFF”
4. “☰☷”

When the switch is in the “1” position, the high beam is on.  
When the switch is in the “2” position, the low beam is on.



## FEATURES AND CONTROLS

Do not use the headlight for more than thirty minutes without the engine running. Doing so will cause the battery to discharge and the starter motor will not work properly. If this should happen remove the battery and recharge it.

### **3.Horn Switch Button**

Press the horn button, the horn will sound.

### **4.Start switch**

Press the starter button to start the engine.

### **5.Hazard Warning Indicator Switch “”**

Press the Button: Left and right running lights are flashing;  
Left and right turn signal lights are flashing.

Press the Button: Left and right running lights are flashing;  
Left and right turn signal lights are flashing.

# FEATURES AND CONTROLS

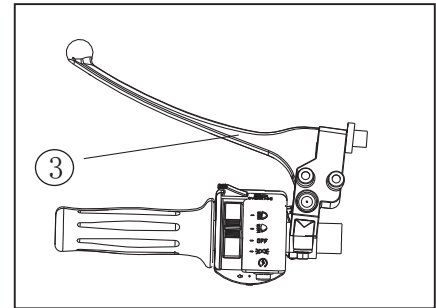
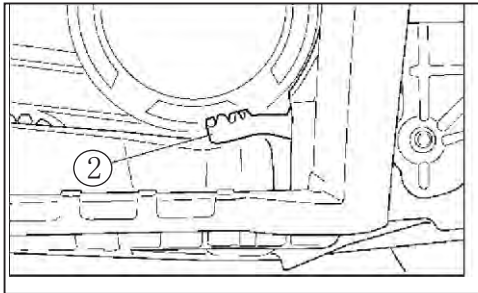
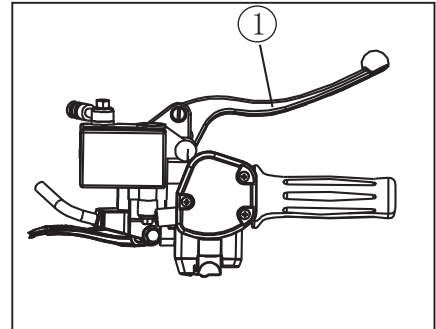
## BRAKE

### FRONT BRAKE LEVER

Front brake lever is located on the right handlebar.  
Pull it toward the handlebar to apply the front brake (1).

### COMBINED BRAKE

The brake pedal is located on the right side of the engine (2).  
The combined brake lever (3) is located on the left handlebar.  
Step on the pedal or pull the lever toward the handlebar to apply the rear linkage brake.



## FEATURES AND CONTROLS

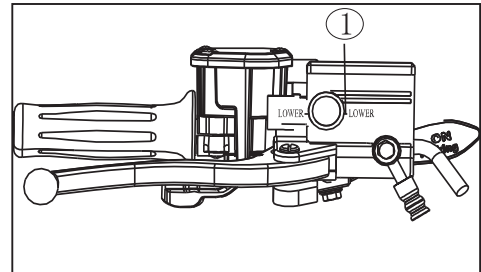
### **⚠ WARNING**

Always test the brake lever and brake fluid level before riding. When the lever is squeezed, the lever should feel firm. Any sponginess would indicate a possible fluid leak, low fluid level or air in the brake system. This condition must be corrected before riding the ATV. Contact your dealer for proper diagnosis and repair.

### **BRAKE FLUID**

Check the brake fluid level in front brake oil cup and linked brake main pump oil cup before using the ATV. The front brake, oil cup is located in the right handlebar. The linked brake main pump oil cup is on the top of brake pedal.

Check the brake fluid level; brake fluid level should be higher than the “LOWER” mark on the reservoir (1).



## FEATURES AND CONTROLS

### BRAKE

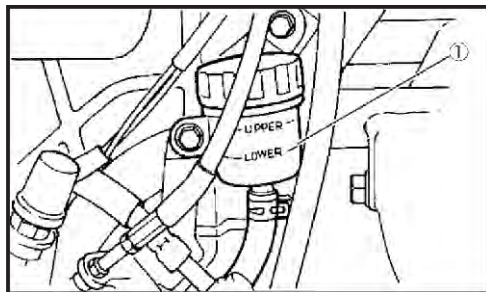
#### **▲ WARNING**

An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill. NOTE: When checking the fluid level, the ATV must be on level ground with the handlebars straight. If the fluid level is low, add DOT3/DOT4 brake fluid.

Fluid cannot be lower than the “LOCK” mark on the brake fluid reservoir. (1)

#### **▲ WARNING**

Never use brake fluid which has been stored in a bottle; brake fluid is hygroscopic and can be rapidly absorb moisture from the air. The moisture causes a drop in the boiling temperature of the brake fluid. Always discard the unused portion in a safe and proper manner.



# FEATURES AND CONTROLS

## PARKING BRAKE

When parking, stop the engine and shift the gear selector Lever(1) into the park position.

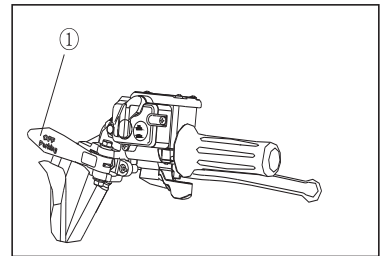
## **⚠ WARNING**

Operating the ATV while the parking brake is engaged could result in an accident and serious injury or death. Always check, to be sure the parking brake is disengaged before operating.

## IMPORTANT SAFEGUARDS

The parking brake may relax if left for a long period of time. Always block the wheels to prevent rolling away.

Never depend on the parking brake alone. If the ATV is parked on a hill, always block the wheels on the downhill side of the ATV, to prevent rolling.



# FEATURES AND CONTROLS

## ELECTRONIC FUEL INJECTION (EFI) SYSTEM

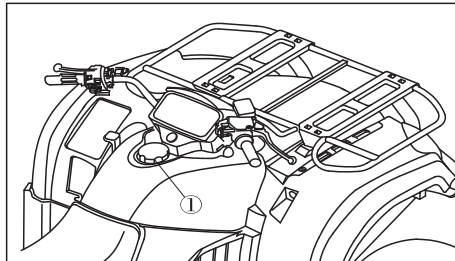
### ⚠ WARNING

Disassembly of the EFI system is forbidden.

- Ignition switch must be off while connecting the battery in order not to damage electric elements.
- Do not disconnect the battery while the engine is running.
- Starting the engine should not be done in the case of no fuel or fuel below warning line to protect from oil pump damage.
- Idling adjustment is handled by EFI system only and does not need manual adjustment.

## FUEL TANK

Fuel tank filler cap (1) is located below the handlebar. Remove the fuel tank cap by turning it counterclockwise. Install the fuel tank filler cap turning it clockwise.



## FEATURES AND CONTROLS

### **⚠ WARNING**

Fuel is highly flammable and explosive under certain circumstances.

- Always handle fuel in an extremely attentive and careful state of mind.
- Always refuel with engine stopped, in a well-ventilated area.
- Never fill gas while plastic fuel tank is on the rack. Static electricity between rack and tank could cause a spark.
- Refuel after engine stops in a well-ventilated area and do not smoke or create a spark when refueling, or in the gasoline storage place.
- Do not overfill the gas.
- Wash with soap or change clothes if gas is sprayed on skin or clothes. Do not start the engine in a closed unventilated area. Engine exhaust is poisonous and could lead to severe injury or death.

Pressure relief is a must before assembly; the EFI system works at high gas pressure. Pressure relief procedure: Disassemble fuel pump relay and then start the engine until engine stops.

### **⚠ WARNING**

Engine exhaust gas may contain chemicals causing cancer or harmful to human health. Always operate the vehicle in a well-ventilated area.

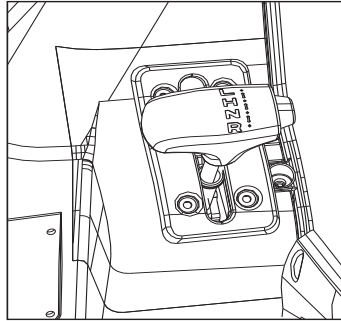


# FEATURES AND CONTROLS

## GEARSHIFT

Gearshift unit is on left side of the vehicle.

- L: Low gear
- H: High gear
- N: Neutral
- R: Reverse gear



In order to shift into reverse gear, step onto brake pedal first. Use the same to shift out of reverse gear.

### **⚠ CAUTION:**

Step on the brake pedal before changing into reverse. Shifting gears when the engine speed is above idle or changing gears while the vehicle is moving, could damage the engine. Stop the vehicle while changing gears and reduce the engine to idle speed; then change the gears.

Parking gear should be applied while nobody is in charge of the vehicle.

If you have problems regarding the gear shifting, consult your dealer if necessary.

# FEATURES AND CONTROLS

## BELT LIFE SPAN

Change into a low gear, while pulling heavy loads, to prolong belt life span.

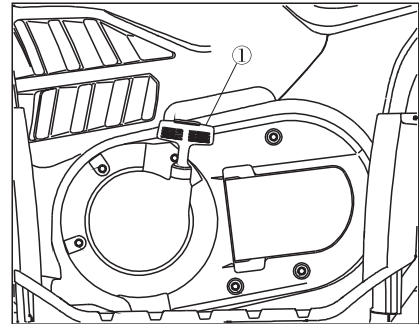
If it is necessary to pull the vehicle, change into neutral gear for better flexibility to protect belt from being damaged.

## RECOIL STARTER

If battery voltage is low and not sufficient to start the engine, use the recoil starter(1).

The vehicle is still operable while the battery is low. The recoil handle is on left side of vehicle. The engine is equipped with pressure relief to make the hand start easier. It will reset when the engine RPM is sufficient.

1. Park vehicle on flat ground and change into P gear.
2. Hold the handle tightly and pull gently on starter mechanism.
3. Pull the rope quickly and start the engine.



# FEATURES AND CONTROLS

## RECOIL STARTER

### ⚠ WARNING

Recoil starter could be damaged if the rope is pulled too far. If the rope is not in the correct position, water might penetrate and damage components. Make sure the handle is within the housing, especially while riding in wet situations.

### All-Wheel Driven: ( AWD ) System

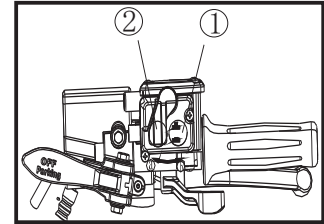
Lock switch is based on 4 wheel drive or differential choice; the vehicle is equipped with “2WD”/“4WD” (1) and differential “LOCK”/“4WD” (2).

Change into proper driven gear based on circumstances;

Two-wheel drive (2WD) : driven power only to rear wheels;

Four-wheel drive (4WD): driven power to rear and front wheels;


Four-wheel drive and differential lock (4WD-LOCK) : Under lock situation, four-wheel drive at the same time; unlike 4WD, direction stays unchanged.

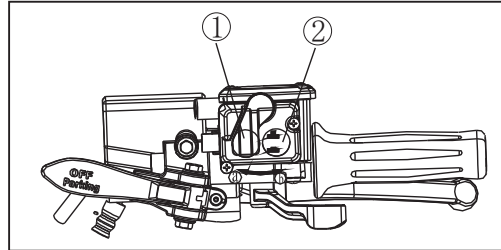



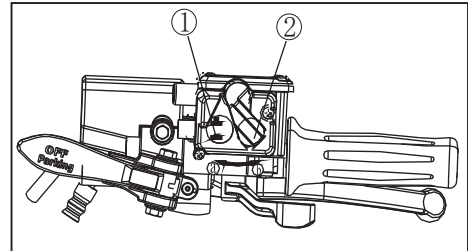
## FEATURES AND CONTROLS

### ALL-WHEEL DRIVE (AWD) SYSTEM

Choose 4WD based on actual need. “2WD/4WD” switch. Stop the vehicle to change 2WD to 4WD if necessary. Then change switch to “4WD”.

When in 4WD, on dashboard will show “

4WD differential lock switch (1). In order to lock 4WD, make sure switch is in 4WD based on actual need, stop ATV and pull (2) to “A line drawing of the 2WD/4WD switch assembly. Callout 1 points to the top of the switch housing, and callout 2 points to the handle of the switch. The handle is shown in a position that corresponds to the 4WD mode.



# FEATURES AND CONTROLS

## ALL-WHEEL DRIVE (AWD) SYSTEM

### ⚠ CAUTION

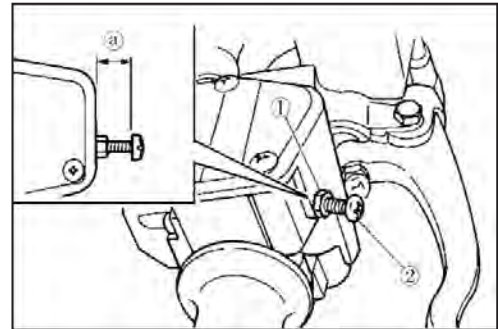
Check the throttle cable movement before starting the engine. In case of problems, check and solve the reasons before riding the ATV. Contact local dealer if necessary.

## SPEED LIMITER

Speed limiter can prevent full open throttle even if throttle is in highest position: Turn bolt (2) to adjust the engine speed of the ATV.

### ⚠ CAUTION

Never adjust the bolt longer than **12mm(.47in)**, make sure throttle clearance is between **3–5mm(.11 to .19 in)**.



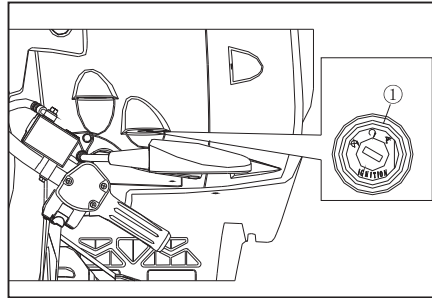
# FEATURES AND CONTROLS

## MAIN KEY SWITCH

Functions:

ON: Start the engine and key cannot be taken out in this position.



OFF: Close all electric circuits and key can be taken out in this position.



# FEATURES AND CONTROLS

## INDICATOR LIGHT AND CAUTION LIGHT

4WD indicator lights(1)

-  Switch “(2WD)/(4WD)” onto position “(4WD)”, the indicator light shows.
-  Switch “LOCK-” – “(4WD)” onto “LOCK-(4WD)”, the indicator light shows.

### **▲ NOTE**

Due to the synchronizing mechanism in the front gear box, 4WD indicator light will show only after ATV starts moving.

Low gear indicator (1)

In low gear, the indicator “L” shows (2)

High gear “H” (3)

When in high gear, indicator “H” shows

Neutral “N” (4)

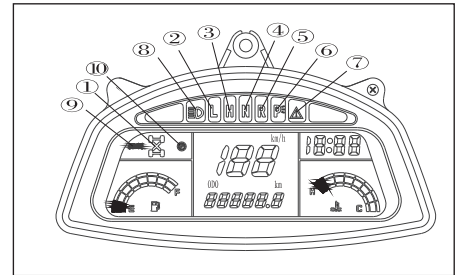
In neutral gear, the indicator shows “N”

### **INDICATORS AND CAUTION LIGHTS**

Reverse gear indicator (5)

When in reverse gear position the “R”, indicator shows.

Parking indicator “P” (6)



## FEATURES AND CONTROLS

When in park the “P” indicator shows.


Assistor light indicator(7)

Switch on the assistor, the indicator shows.

High beam indicator (8)

Turn on the front light “” indicator show

Position (9)

Press position light “”, the indicator shows

Trouble indicator (10)

In case of trouble, see page 131.

### NOTE

If the indicator or speedometer does not show the speed while driving, contact local dealer if necessary.



# FEATURES AND CONTROLS

## DASHBOARD

### COOLANT TEMPERATURE INDICATOR

When the temperature indicator is in the white area of side (1), it means that the temperature is normal. If in the red area of the side (1) indicates temperature is high. If the indicator reads hot please stop the engine until temperature cools down. If the temperature frequently goes high, check coolant capacity or contact the dealer.

### ⚠ CAUTION

Engine may overheat if ATV is over loaded.

Reduce Weight to specification in this case.

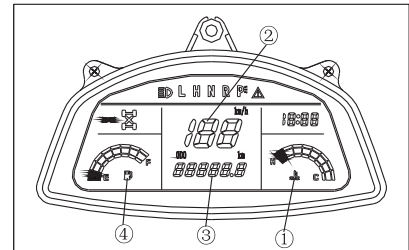
After restarting, make sure the temperature is in the white area of side (1).

Continuous use while temperature indicator is in the red area of (1) will damage the engine.

**SPEEDOMETER** shows speed, **ODOMETER** shows total distance traveled.

**FUEL GAUGE:** indicates remaining fuel “F” equals full.

Total capacity is **18L (4.75 gal)**. Refuel when the indicator shows in the Red area. Red indicates **4.0L (1.0gal)** remaining fuel.



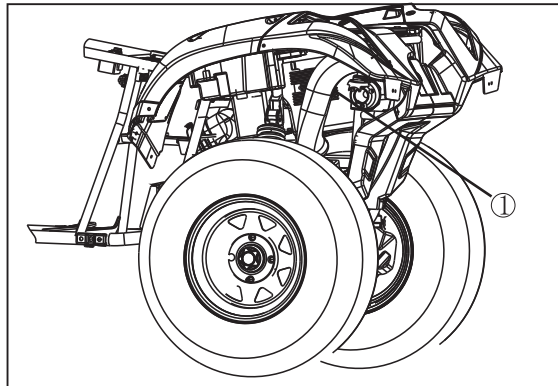
## FEATURES AND CONTROLS

### TOWING ELECTRICAL CONNECTOR

Towing electric outlet, position, power

Output: 12V(1)

This spare electric outlet provides power for rear lights, rear-turning lights etc., of the towed devices.



# DRIVING AND OPERATION

## BREAK-IN-PERIOD

The break-in period for your new ATV is defined as first twenty hours of operation, or the time it takes to use the first four full tanks of petrol. No single action on your part is as important as following the procedures for a proper break-in. Careful treatment of a new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.

### CAUTION

Excessive heat build-up during the first three hours of operation will damage close-fitted engine parts. Do not operate at full throttle or high speeds for extended periods during the first three hours of use. Use of any oils other than those recommended may cause serious engine damage. We recommend the use of 4 Synthetic Oil for your 4-cycle engine.

1. Fill the fuel tank with petrol.
2. Check the oil level on the dipstick. Add 4 Synthetic Oil if necessary to maintain the oil level between the minimum and maximum level marks.
3. Drive slowly at first. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
4. Do not change throttle position, under idle speed.
5. Perform regular checks on fluid levels, controls, and areas outlined on the daily pre-ride inspection checklist. See page 60.
6. Lighter loads are better.
7. Check oil and filter each 25 hours or each month during break-in period.

## DRIVING AND OPERATION

### **⚠ WARNING**

If a proper inspection is not performed before each use, severe injury or death could result. Always inspect the vehicle before each use to insure it is in the proper operating condition.

Pre-Ride Checklist		
Item	Remarks	See page
Brake system/lever travel	Ensure proper operation	43
Brake fluid	Ensure proper level	44
Front suspension	inspect,lubricate if necessary	116
Rear suspension	inspect,lubricate if necessary	116
Steering	Ensure free operation	-
Tires	Inspect condition and pressure	110
Wheels/fasteners	Inspect,ensure fastener tightness	110

## DRIVING AND OPERATION

Frame nuts,bolts,fasteners	Inspect,ensure fastener tightness	-
Fuel and oil	Ensure proper levels	89
Coolant level	Ensure proper levels	94
Coolant hoses	Inspect for leaks	-
Throttle	Ensure proper operation	103
Gear shifting	Ensure proper operation	48
Indicator lights/switches	Ensure proper operation	40, 54
Air filter	Inspect,clean	100
Air box sediment tube	Drain deposits whenever visible	-
Headlamp	Check operation	114
brake light/tail lamp	Check operation	115
Riding accessories	Wear helmet,goggles,protective clothing	39

# DRIVING AND OPERATION

## STARTING THE ENGINE/STARTING A COLD ENGINE


### **⚠ WARNING**

Engine exhaust contains poisonous carbon monoxide and can cause loss of consciousness resulting in severe injury or death. Never run an engine in an enclosed area.

### **⚠ CAUTION**

Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

### **STARTING A COLD ENGINE**

1. Apply the rear brake pedal.
2. Turn ignition switch to  , turn stop switch to “ON”.
3. Shift gear selector into the neutral position.

### **⚠ NOTE**

- When the gear selector is in neutral position, if indicator light on dashboard does not come on, ask your dealer to inspect its electric circuit or adjust gear- shifting system.

## DRIVING AND OPERATION

- Engine can be started in any gear if rear brake pedal is applied. However it is recommended to shift into neutral or park before starting the engine.
- Completely close the throttle lever and start the engine by pushing the start switch.
- If the engine fails to start; release the start switch, then push the start switch again. Pause 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 10 seconds on each attempt.
- If the battery is discharged, disassemble the battery to recharge.
- Continue warming up the engine until it idles smoothly before starting the ATV.

### CAUTION

See the “Break- In Period” section prior to operating the engine for the first time.

# DRIVING AND OPERATION

## GEAR SELECTOR OPERATION AND REVERSE DRIVING

### ⚠ CAUTION

Before shifting, you must return the throttle lever to the closed position and stop the ATV. Otherwise, the transmission may be damaged.

### SHIFTING; NEUTRAL TO HIGH

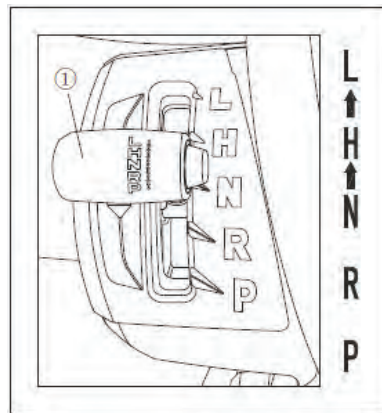
- (1) Return the throttle lever to the closed position and stop the ATV.
- (2) Push the button at the right side of gear selector, then shift to High by moving the gear selector along the shift guide.

### ⚠ NOTE

- (3) Make sure that the gear selector is completely shifted into position. Open the throttle lever gradually.

### SHIFTING; HIGH TO LOW

- (1) Return the throttle lever to the closed position and stop the ATV completely.
- (2) Apply the rear brake pedal, shift to Low by moving the gear selector along the shift guide.





# DRIVING AND OPERATION

## SHIFTING: LOW TO HIGH

Return the throttle lever to the closed position and stop the ATV completely.

Push the button at the right side of gear selector, then shift to High by moving the gear selector along the shift guide.

## SHIFTING: NEUTRAL (N) TO REVERSE(R);

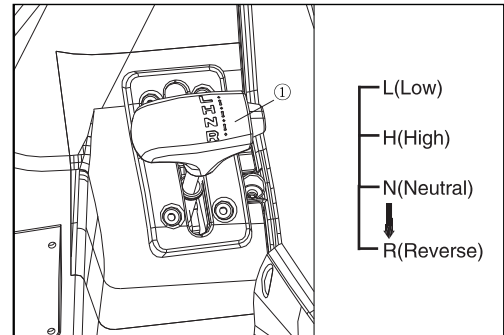
### ▲ NOTE

The gear selector cannot be shifted into reverse(R) without applying the rear brake.

Return the throttle lever to the closed position and stop the ATV completely.

Apply the rear brake pedal; push the button at the right side of gear selector.

Shift the gear from neutral (N) to reverse by moving the gear selector along the shift guide.



## DRIVING AND OPERATION

### **▲ NOTE**

- (a) When in reverse, the reverse indicator light should be on.
- (b) The indicator light should be on in accordance with actual gear position, if the light does not come on, asks your dealer to inspect.
- (C) Due to the synchronizing mechanism in the engine, the light may not come on until ATV starts moving.
  1. Check behind for people or obstacles; then release the rear brake pedal.
  2. Open the throttle lever gradually and continue to watch rear while moving backward.

### **▲ WARNING**

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

### **SHIFTING; REVERSE TO PARK**

1. Return the throttle lever to the closed position and stop the ATV completely.
  2. Apply the rear brake pedal.
  3. Shift from reverse to park by moving the gear selection along the shift guide.
- The others gear selection refer to Page 63.

# DRIVING AND OPERATION

## HAULING CARGO

### **▲ WARNING**

- Overloading the vehicle or carrying or towing cargo improperly can alter vehicle handling and may cause loss of control or brake instability. Always follow these precautions when hauling cargo:
- Never exceed the stated load capacity for this vehicle.
- Reduce speed.
- When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.
- Weight distribution in the rear rack should be as far forward and as low as possible. Carrying a high load raises the center of gravity and creates a less stable operating condition. Reduce load weight when cargo is high. When handling off-centered loads that cannot be centered, secure the load and operate with extra caution.
- All loads must be secured before operation. Unsecured loads may shift and create unstable operating conditions which could result in loss of control of the vehicle. Always be sure that the rear rack is lowered.
- When operating with loads extending beyond the rack. Stability and maneuverability may be adversely affected, causing the machine to overturn.
- Carrying a load on only the front rack or the rear rack may cause an imbalanced condition and increases the possibility of vehicle overturn. Balance loads proportionally between the front rack and the rear rack, but do not exceed the stated load capacity.

## DRIVING AND OPERATION

- Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations that may require backing down- hill.
- Always attach the tow to the hitch point.
- The vehicle should never exceed 10 mph (16 km/h) while towing a load on a level surface. Vehicle speed should never exceed 5mph (8 km/h) when towing loads in rough terrain, while cornering, or while ascending or descending a hill.
- Do not obstruct the headlight when loading the front rack.

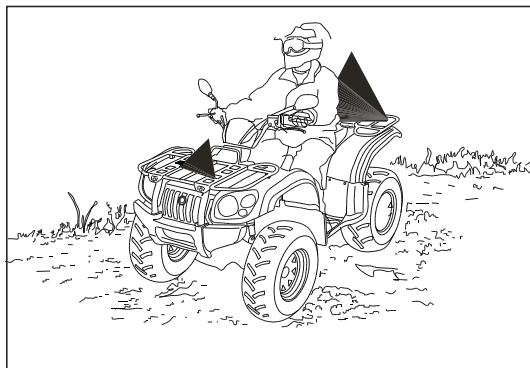
### LOAD DISTRIBUTION

Your ATV has been designed to carry or tow a certain amount of load. Always read and understand the load distribution warnings listed on the warning labels, and never exceed the specified weights.

Cargo weight should be mounted as low as possible. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.

### **ALWAYS LOAD THE CARGO AS FAR FORWARD AS POSSIBLE.**

Always operate the vehicle with extreme caution whenever hauling or towing loads. Balance, handling, and control may be affected. Slow down.



# DRIVING AND OPERATION

## DRIVING PROCEDURES

1. Sit upright with both feet on the footrests and both hands on the handlebars.
2. Start the engine and allow it to warm up, apply the brakes, and then shift the transmission into gear.
3. Check your surroundings and determine your path of travel.
4. Release the brakes.
5. Slowly depress the throttle with your right thumb and begin driving. Vehicle speed is controlled by the amount of throttle opening.
6. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.

## MAKING TURNS

To make a turn, steer in the direction of the turn, leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the wheels, allowing turn to be made smoothly. The same leaning technique should be used for turning in reverse.

**▲ NOTE:** Practice making turns at slow speeds before attempting to turn at faster speeds.

## ▲ WARNING

Turning at sharp angles or at excessive speeds can result in vehicle overturn and lead to serious injury. Avoid turning at sharp angles.

Never make turns at high speeds.

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# DRIVING AND OPERATION

## DRIVING ON SLIPPERY SURFACES

Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

1. Slow down when entering slippery areas.
2. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns which can cause skids.
3. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.
4. Driving with AWD engaged can assist in controlling the vehicle in slippery areas.

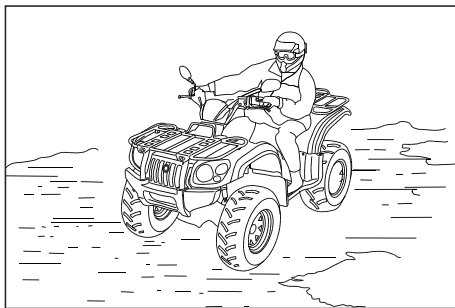
### **⚠ CAUTION**

Severe damage to drive train may occur if the AWD is engaged while the wheels are spinning. Always engage AWD when the wheels have traction or are at rest.

### **⚠ WARNING**

Failure to exercise care when operating on slippery surfaces can result in loss of tire traction and cause loss of control, accident, and serious injury or death. Never apply the brakes during a skid.

Do not operate on excessively slippery surfaces. Always reduce speed and use additional caution.



# DRIVING AND OPERATION

## DRIVING UPHILL

1. Whenever traveling uphill, follow these precautions.
2. Always travel straight uphill.
3. Avoid steep hills (22 maximum).
4. Keep both feet on the footrests.
5. Shift your weight forward.
6. Proceed at a steady rate of speed and throttle opening.
7. Remain alert and be prepared to take emergency action.

This may include quick dismounting of the vehicle.

### **IF ALL FORWARD SPEED IS LOST:**

Keep your weight uphill.

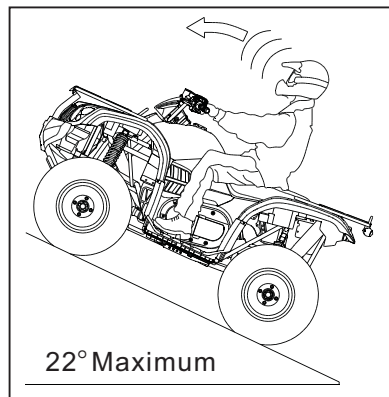
Apply the front brake. When fully stopped, apply rear brake as well, then shift gear selector into park position

### **IF THE ATV BEGINS ROLLING BACKWARDS:**

Keep your weight uphill. Never apply engine power. Never apply the rear brake while rolling backwards.

Apply the front brake. When fully stopped, apply the rear brake as well, and then shift gear selector into park position.

Dismount on uphill side, or to either side if ATV is pointed straight uphill. Turn the ATV around and remount, following the procedure described on page 72.



## DRIVING AND OPERATION

### **⚠ WARNING**

Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or overturn and result in serious injury or death.

Avoid climbing steep hills (22° maximum).

Use extreme caution when operating on hills, and follow proper operating procedures outlined in the owner's manual.

### **SIDEHILLING**

#### **⚠ WARNING**

Improperly crossing hills or turning on hills can result in loss of control or vehicle overturn, resulting in severe injury or death. Avoid crossing the side of a hill when possible. Follow proper procedures as outlined in the owner's manual. Sidehilling can be a dangerous type of driving and should be avoided if possible. If you do enter into a situation where sidehilling is necessary, follow these precautions:

1. Slow down.
2. Lean into the hill, transferring your upper body weight toward the hill while keeping your feet on the footrests.
3. Steer slightly into the hill to maintain vehicle directions.

**⚠ NOTE** If the vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side immediately!





## DRIVING AND OPERATION

### DRIVING DOWNHILL

Whenever descending a hill, follow these precautions:

1. Proceed directly downhill.
2. Shift your weight to the rear of the vehicle.
3. Slow down.
4. Apply the brakes slightly to aid in slowing.

Familiarize yourself with operation of the auxiliary rear brake lever.

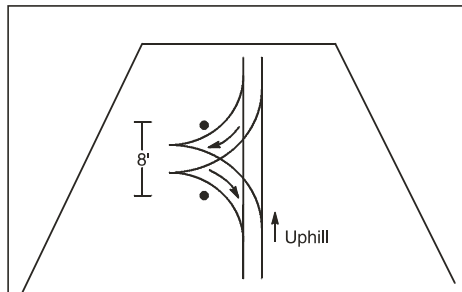
### ⚠ WARNING

Excessive speed can cause loss of control and lead to serious injury or death. Always operate slowly when traveling downhill.

### TURNING AROUND ON A HILL

### ⚠ WARNING

Improper hill climbing procedures could cause loss of control or overturn and result in serious injury or death. Avoid climbing steep hills ( $22^\circ$  maximum). Use extreme caution when operating on hills, and follow proper operating procedures outlined in the owner's manual. If the vehicle stalls while climbing a hill, never back it down the hill! One maneuver that can be used when it's necessary to turn around while climbing a hill is the K-turn.



## DRIVING AND OPERATION

1. Stop and shift the gear selector lever to the parking position while keeping body weight uphill.
2. Shut off the engine.
3. Dismount on the uphill side of the vehicle or on the left if the vehicle is pointing straight uphill.
4. Staying uphill of the vehicle, turn the handlebars full left.
5. While holding the brake lever, shift the gear selector lever to the low gear position and slowly allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.
6. Shift the gear selector lever to the parking position and remount the vehicle from the uphill side, keeping body weight uphill.
7. Restart the engine, while holding the brake lever; shift the gear selector lever to low gear position.
8. Release the brake and proceed slowly, controlling speed with the brake, until the vehicle is on more level ground.

### DRIVING THROUGH WATER

Your ATV can operate through water with a maximum recommended depth equal to the bottom of the footrests. Follow these procedures when operating through water:

1. Determine water depths and current before crossing.
2. Choose a crossing where both banks have gradual inclines.



## DRIVING AND OPERATION

Proceed slowly, avoiding rocks and obstacles if possible.

After crossing, dry the brakes by applying light pressure to the lever until braking action is normal.

### **▲ NOTE**

Avoid operating the vehicle through deep or fast-flowing water. If you cannot avoid water that exceeds the recommended maximum depth, go slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.

After running the vehicle in water, it is critical to have it serviced as outlined in the maintenance chart.

See page 82. The following areas need special attention: engine oil, transmission oil, front and rear gear cases, and all grease fittings.

### **▲ NOTE**

If water has been ingested into the CVT, follow the procedure on page 103 for drying out the CVT. If your vehicle becomes immersed, and it is impossible to take it to your dealer before starting it. Have the vehicle serviced by your dealer promptly.

## DRIVING AND OPERATION

### **▲ WARNING**

Major engine damage can result if the vehicle is not thoroughly inspected after operation in water. Perform the services outlined in the maintenance chart.

If your vehicle becomes immersed or is operated in water that exceeds the footrest level, take it to your dealer for service before starting the engine.

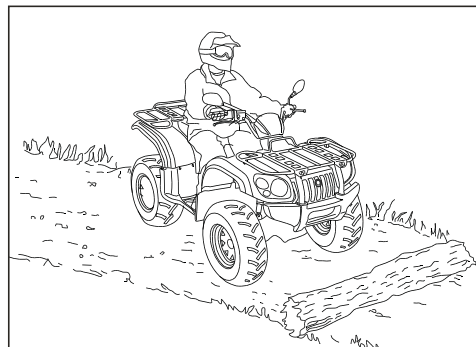
### **DRIVING OVER OBSTACLES**

Be alert! Look ahead and learn to read the terrain. Be constantly alert for hazards such as logs, rocks and low hanging branches.

### **▲ WARNING**

Severe injury or death can result if your vehicle comes in contact with obstacles that are immediately visible.

Travel with caution in unfamiliar terrain.



# DRIVING AND OPERATION

## DRIVING IN REVERSE

Follow these precautions when operating in reverse:

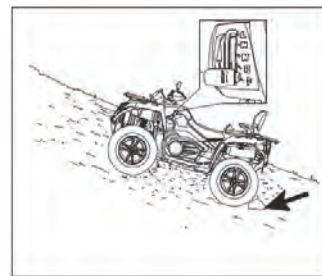
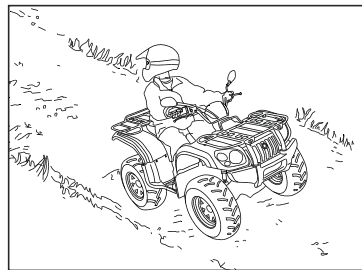
1. Always avoid backing downhill.
2. Back slowly.
3. When in reverse, apply the brakes lightly for stopping.
4. Avoid turning at sharp angles in reverse.
5. Never open the throttle suddenly while backing.

### **⚠ WARNING**

Failure to use caution when operating in reverse can result in serious injury or death. Before shifting into reverse, always check for obstacles or people behind the vehicle. When it's safe to proceed, backup slowly. Do not use the override switch unless additional power is required for vehicle movement. Use with caution. Avoid backing on inclines, and avoid turning at sharp angles.

### **⚠ NOTE**

Your ATV is equipped with a reverse speed limiter. The override button should be used with caution as rearward vehicle speed is greatly increased. Do not operate at wide-open throttle. Open the throttle just enough to maintain a desired speed.



## DRIVING AND OPERATION

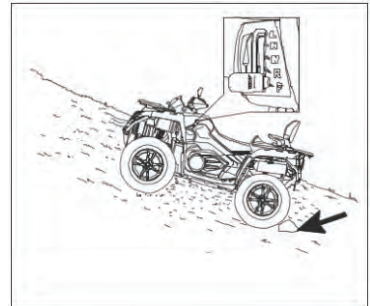
### **⚠ WARNING**

Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage. Engine brake will be executed and rear output shaft locked when gear on the parking position.

### **PARKING ON AN INCLINE**

Avoid parking on an incline if possible. If it is unavoidable, follow these:

1. Turn the engine off.
2. Place the gear selector to parking position.
3. Always block the rear wheels on the downhill side as illustrated.



## DRIVING AND OPERATION

### TURNING YOUR ATV

To achieve maximum traction while riding in 2WD or 4WD, the two rear wheels are mounted solidly on one axle and turn together at the same speed. Furthermore, when riding in 4WD-LOCK (DIFF. LOCK), the front wheels also turn together at the same speed. Therefore, unless the wheel on the inside of the turn is allowed to slip or lose some traction, the ATV will resist turning. A special turning technique must be used to allow the ATV to make turns quickly and easily. It is essential that this skill be learned first at low speed.

### **⚠ WARNING**

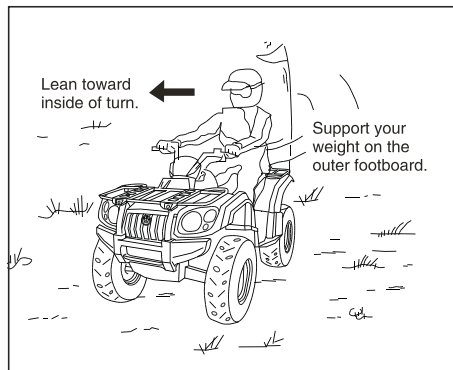
Always follow proper procedures for turning as described in this Owner's Manual. Practice turning at low speeds, before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions. Operate at a slow speed and allow extra time and distance for maneuvers when in 4WD-LOCK (DIFF. LOCK).

As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn.

This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.

## DRIVING AND OPERATION

This procedure should be practiced at slow speed many times in a large area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat. Once you have learned this technique you should be able to perform it at higher speeds or in tighter curves. Improper riding procedures such as abrupt throttle changes, excessive braking, incorrect body movements, or too much speed for the sharpness of the turn may cause the ATV to tip. If the ATV begins to tip over to the outside while negotiating a turn, lean more to the inside. It may also be necessary to gradually let off on the throttle and steer to the outside of the turn to avoid tipping over. Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.





# MAINTENANCE & LUBRICATION

## ACCESSORIES

Auxiliary power outlets provide 12V power for operating accessories such as hand held spotlights. Please consult with your dealer.

## PERIODIC MAINTENANCE CHART

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

Inspect, clean, lubricate, adjust, and replace parts as necessary. When inspection reveals the need for replacement parts, please use genuine parts available from your dealer.

## NOTE

Service and adjustments are critical. If you are not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations. Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 10 miles or 20 Km per hour. Vehicles subjected to severe use must be inspected and serviced more frequently.

# MAINTENANCE & LUBRICATION

## SEVERE USE DEFINITION

- Frequent immersion in mud, water, or sand.
- Racing or race-style high RPM use.
- Prolonged low speed, heavy load operation.
- Extended idle.
- Short trip cold weather operation.

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting, in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue the use, and determine the cause or see your dealer.

## KEY POINTS OF MAINTENANCE CHART

- ▶ Perform these procedures more often for vehicles subjected to severe use.
- Have an authorized dealer perform these services.

## DANGER

Improperly performing the procedures marked with a “ ■ ” could result in component failure and lead to serious injury or death. Have an authorized dealer perform these services.

## MAINTENANCE & LUBRICATION

Item		Maintenance Interval (Whichever comes first)			Remarks
		Hours	Calendar	Mile(km)	
■	Steering		Pre-Ride		Make adjustments as needed. Pre-Ride Checklist on Page 59.
▶	Front suspension		Pre-Ride		
▶	Rear suspension		Pre-Ride		
	Tires		Pre-Ride		
▶	Break fluid level		Pre-Ride		
▶	Brake lever/pedal travel		Pre-Ride		
	Brake system		Pre-Ride		
	Wheels/fasteners		Pre-Ride		
	Frame fasteners		Pre-Ride		
▶	Engine oil level		Pre-Ride		
▶	Air Inlet, Air filter				Inspect and clean if necessary
▶	Air box sediment tuber				Drain Deposits when visible

## MAINTENANCE & LUBRICATION

	Coolant	50H	Daily	1500	Check level daily/change coolant Every 2 years or 6000Km/200H,but initial check should be done after 20H or 750Km.
	Headlight / tail light		Daily		Check operation; apply dielectric grease if replacing
	Air filter,element	50H		1500	Inspect, Clean every 1000Km or 100hours. Replace initial replacement should be done after 750Km or 20H.
	CVT outlet pipe		Weekly		Drain water as needed, check often if operating in wet condition.
	Brake pad wear	10H	Monthly	100	Inspect periodically
	Battery	20H	Monthly	200	Check terminals;clean;test
▶	Front gear case oil	25H	Monthly	250	Inspect level;change yearly
▶	Rear gear case oil	25H	Monthly	250	Inspect level;change yearly
▶	Transmission oil	25H	Monthly	250	Inspect level;change yearly
▶	Engine oil change (break- in)	20H		250	Change
▶	General lubrication	50H	3M	500	Lubricate all fittings,pivots,cables,ect.

## MAINTENANCE & LUBRICATION

	Steering knuckle	50H	6M	500	Lubricate
■	Steering handlebar	50H	6M	500	Lubricate
▶	Front suspension	50H	6M	500	Lubricate
	Rear suspension	50H	6M	500	Lubricate
	Gearshift	28H	1M	500	Inspect;adjust;lubricate;
■	Throttle Cable/ Switch	50H	6M	500	Inspect;adjust.lubricate; replace if necessary
	Drive belt	50H	6M	1500	Inspect ; adjust; replace if necessary. Replace for every 3000Km
	Cooling system	50H	6M	500	Inspect coolant strenght seasonally; pressure test system yearly
▶	Engine oil change	100H	12M	3000	Perform a break-in oil change at 25 hours/750Km
▶	Fuel hose	100H	12M	1000	Inspect routing, condition, Replace highpressure fuel hose

## MAINTENANCE & LUBRICATION

■	Valve clearance	100H	12M	3000	Inspect ,Adjust, Initial :750Km or 20H
■	Fuel system	100H	12M	1000	Inspect cap of fuel tank, fuel pump and fuel relay
■	Oil filter	100H	12M	3000	Initial change:750Km or 20H
▶	Radiator	200H	24M	3000	Inspect;clean external surfaces
▶	Cooling hoses	100H	12M	1000	Inspect ;Initial:300Km or 10H
▶	Engine mounts	100H	12M	3000	Inspect. Initial: 300Km or 10H
	Exhaust pipe and muffler	100H	12M	1000	Inspect
	Ignition coil	100H	12M	1000	Inspect and replace as needed
	ECU	100H	12M	1000	Inspect and replace as needed
	Wirings and cables	100H	12M	1000	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mub, etc.

## MAINTENANCE & LUBRICATION

	Clutches(drive and driven pulley)	100H	12M	3000	Inspect; clean; replace worn parts
	Wheel bearings	100H	12M	1600	Inspect and replace as necessary
	Brake fluid	200H	24M	2000	Change every two years
	Spark plug	100H	12M	3000	Initial:750Km or 20H. Replace every 6000Km
	Idle condition				Inspect every component 1300±100r/min
	Toe adjustment				Inspect periodically;adjust when parts are replaced
	Auxiliary brake				Inspect daily; adjust as needed
	Headlight aim				Adjust as needed

# MAINTENANCE & LUBRICATION

## RECOMMENDED LUBE

Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart beginning on page 83. Items not listed in the chart should be lubricated at the General Lubrication interval.

## KEY POINTS OF LUBRICATION CHART

- ▶ More often under severe use, such as a s wet or dusty conditions.
- ★ All Season Grease.
- Use U-Joint Lube every 500 miles, before long periods of storage, or after pressure washing or submerging.

Items	Lube	Methods
Engine Oil	SAE15W-40/SG	Use dipstick to check Oil level
Brake Fluid	DOT3 or DOT4	Keep level between Upper and Lower line, see page 105
Front gear case Oil	SAE15W-40/SG or SAE80W/90GL-4	See Page 92
Rear gear case Oil	SAE15W-40/SG or SAE80W/90GL-4	See Page 91
Ball Joint	Grease	



# MAINTENANCE & LUBRICATION

## ENGINE OIL

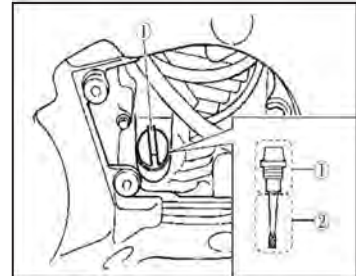
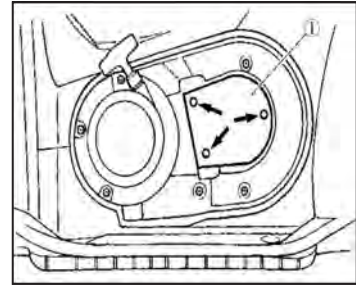
Always check and change the engine oil at the intervals outlined in the Periodic Maintenance Chart beginning on Page 82. Always change oil filter whenever changing oil.

### Engine Oil Check

1. Pull outward on the areas shown (1).
2. Position the ATV on a level surface.
3. Start engine and let it idle for 20-30 seconds; stop the engine.
4. Wait a few minutes until the oil settles.
5. Remove engine oil dipstick (2).
6. Insert the dipstick in the oil filler hole and screw it in, and then remove it again to check the oil level.

### ⚠ NOTE

The engine oil should be between the upper and lower limit marks.



# MAINTENANCE & LUBRICATION

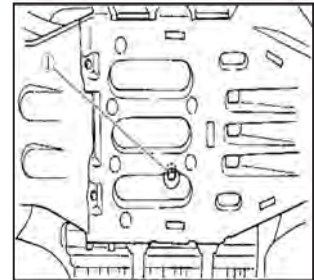
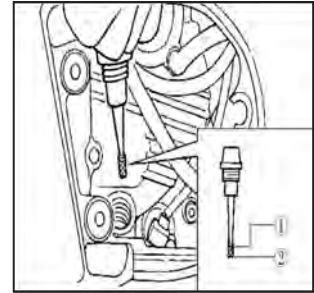
## ENGINE OIL CHECK

7. If the engine oil is at or below the lower limit mark, add sufficient oil, of the recommended type to raise it to the correct level.
8. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.
9. Install the panel.

## CHANGING THE ENGINE OIL

1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil, and then remove the engine oil, filler cap.
3. Remove engine oil, drain bolt to drain the oil from the crankcase (3).
4. Remove the oil filter cartridge with an oil filter wrench.

**⚠ NOTE** An oil filter wrench is available at a nearby dealer.



## MAINTENANCE & LUBRICATION

### CHANGING THE ENGINE OIL

5. Apply a light coat of engine oil to the O-ring of the new oil filter cartridge.

**▲ NOTE** Make sure the O-ring is seated properly.

6. Install the new oil filter cartridge with an oil filter wrench, and then tighten it to the specified torque with a torque wrench.

**▲ NOTE Oil filter cartridge tightening torque: 17N.m (150 lbs in)**

7. Install the engine oil, drain plug, and then tighten it to the specified torque.

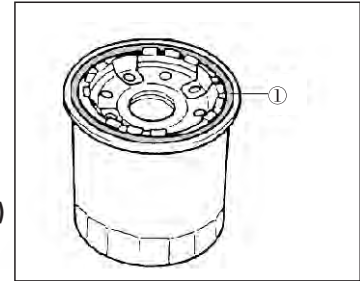
**▲ NOTE Engine oil drain bolt tightening torque : 30N.m (265 lbs in)**

8. Add the specified amount of recommended engine oil, and then install the engine oil, filler cap and tighten it.

**▲ NOTE Without the oil filter cartridge, replacement oil quantity: 1.9L (2.0qt)  
With oil filter cartridge, replacement oil quantity: 2.2L (2.3qt)**

9. Start the engine and warm it up for several minutes. While warming up, check for oil leakage. If oil leakage is found, turn the engine off immediately and check for the cause.

10. Turn the engine off, and then check the oil level and correct it if necessary.



# MAINTENANCE & LUBRICATION

## TO CHANGE GEAR CASE OIL REAR GEAR CASE OIL

The rear gear case must be checked for oil leakage before each ride. If any leakage is found, have your dealer check and repair the ATV.

### REAR GEAR CASE OIL REPLACEMENT

1. Place the machine on a level surface.
2. Place a container under the rear gear case to collect the used oil.
3. Remove the oil filler bolt and the drain bolt to drain the oil (1).
4. Install the drain bolt and tighten it to the specified torque.

**▲ NOTE** Drain bolt rear gear case tightening torque: 23N.m (203 lbs in)  
5. Fill the rear gear case with oil.

**▲ NOTE** Periodic oil change oil quantity: 0.25L (.25 qts)  
Total amount quantity: 0.30L (.31 qts)

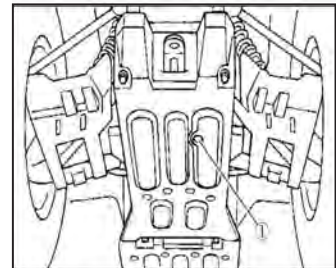
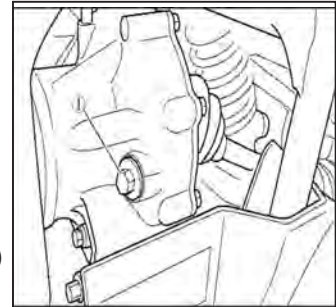
### REAR GEAR CASE OIL REPLACEMENT

6. Install the filler bolt and tighten to the specified torque.

**▲ NOTE** Filler bolt rear gear case tightening torque : 23N.m (203 lbs in)

7. Check for oil leakage. If oil leakage is found, check for the cause.

**▲ NOTE** Be sure no foreign material enters the rear gear case.



# MAINTENANCE & LUBRICATION

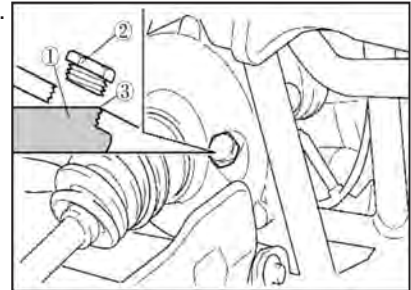
## FRONT GEAR CASE OIL MEASUREMENT

1. Place the machine on a level surface.
2. Remove the oil filler bolt and check the oil level. It should be up to the brim of the hole (1). If the level is low, add sufficient oil to raise it to the specified level.
3. Install the oil filler bolt and tighten it to the specified torque (2).

**▲ NOTE** Oil filler bolt tightening torque: 23N.m (203 lbs in )

## FRONT GEAR CASE OIL REPLACEMENT

1. Place the machine on a level surface.
2. Place a container under the front gear case to catch the oil.
3. Remove the filler bolt and drain bolt to drain the oil (2).



# MAINTENANCE & LUBRICATION

## FRONT GEAR CASE OIL REPLACEMENT

4. Install the drain bolt and tighten it to the specified torque.

**▲ NOTE** Drain bolt tightening torque: 10N.m

5. Fill the front gear case with oil.

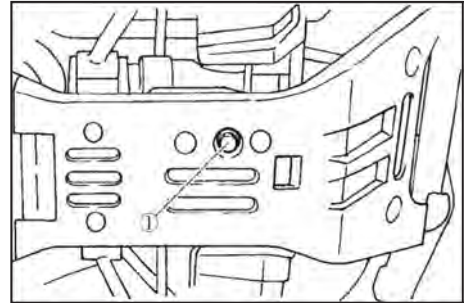
**▲ NOTE** Periodic oil change oil quantity: 0.28L (.29 qts)

Total amount oil quantity: 0.33L (.34 qts)

6. Inspect the filler bolt and tighten it to the specified torque.

7. Check for oil leakage. If oil leakage is found, check for the cause.

**▲ NOTE** Be sure no foreign material enters the front gear case.



## COOLING SYSTEM

1. Place the ATV on a level surface.

2. Check the coolant level in the coolant reservoir when the engine is cold as the coolant level will vary with engine temperature.

**▲ NOTE** The coolant should be between upper and lower limit marks.

# MAINTENANCE & LUBRICATION

## COOLING SYSTEM

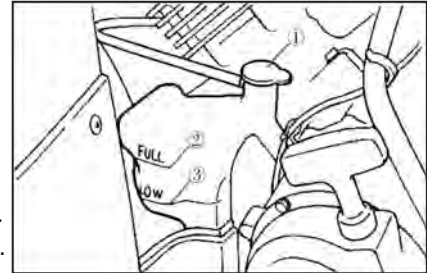
3. If the coolant is at or below the lower limit mark; remove the reservoir cap; add coolant to the upper limit mark; install the reservoir cap, and then install the panel.

**▲ NOTE** Coolant reservoir capacity (up to the upper limit mark): 0.3L (.31 qts)

**▲ CAUTION** Hard water or salt water is harmful to the engine. You may use soft water if you cannot get coolant.

**▲ NOTE** When the coolant is hot, the water level raises.

If the radiator fan does not work, check antifreeze fluid capacity in the reservoir first. If the antifreeze fluid is filled fully, the thermo switch can adjust water temperature automatically. If engine temperature is higher than 80 ° F, the cooling fan begins to work.



## TO CHANGE COOLANT

1. Place ATV on a level surface.
2. Place a container under the engine, and then remove the coolant drain bolt. Use a trough or a similar object, as shown, to prevent coolant from spilling on the footrest.
3. Remove the radiator cap.
4. Remove the coolant reservoir cap.

## MAINTENANCE & LUBRICATION

### CHANGING THE COOLANT

5. Disconnect the hose on the coolant reservoir, and then drain the coolant out.
6. After draining out the coolant, flush the cooling system with clean water.
7. Replace the coolant drain bolt, washer if damaged, and tighten it as per stipulated torque.

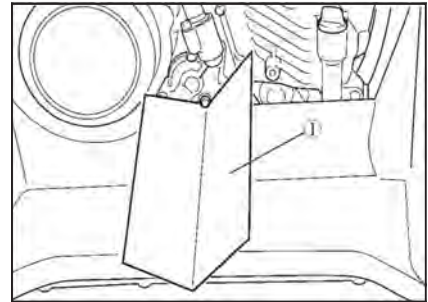
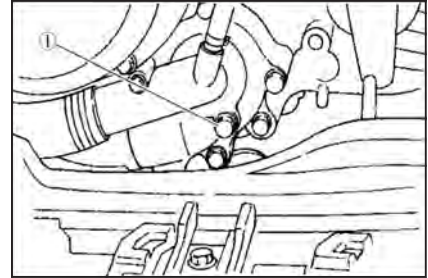
**▲ NOTE** Torque : 10N.m (88.5 lbs in)

8. Install the coolant reservoir hose.
9. Fill the radiator with recommended coolant until full.

**▲ NOTE** Recommended antifreeze: High quality ethylene glycol antifreeze with anti-corrosion aluminum engine.

Mix Ratio between antifreeze and water: 1:1.

Total Amount: 1.9 L (2.0 qts)





# MAINTENANCE & LUBRICATION

## CHANGING THE COOLANT

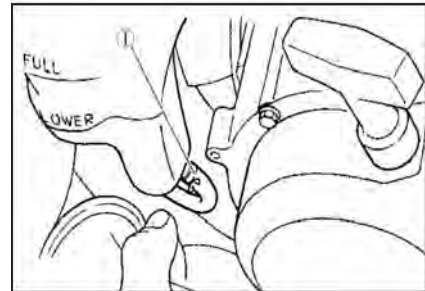
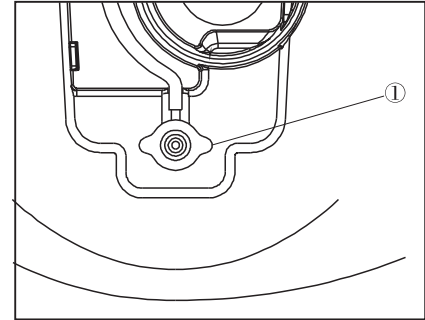
Hard water or salt water is harmful to the engine. Make sure to fill the coolant reservoir capacity, up to the full limit mark. Capacity : 0.3L (.31 qts)

**⚠ CAUTION Use soft water if you can't get coolant.**

10. Install the radiator cap.
11. Start the engine, and keep it running on idle speed for several minutes; Shut the engine, and then check the coolant level; If the level is low, fill the coolant to the top of radiator.
12. Fill the coolant into reservoir up to full limit.
13. Install the coolant reservoir cover, and check for leakage.

**⚠ NOTE** If there is any leakage, have your dealer check the cooling system.

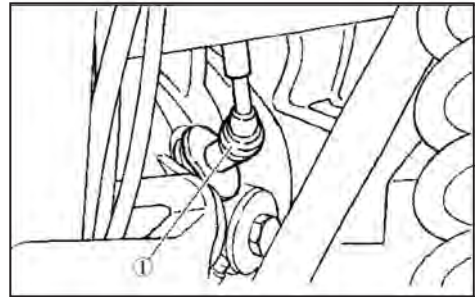
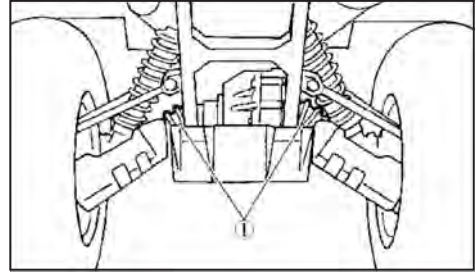
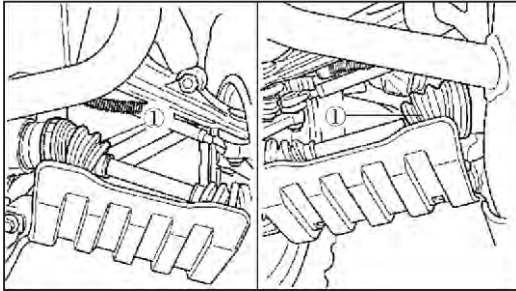
14. Install the top cover and front rack.



## MAINTENANCE & LUBRICATION

### AXLE BOOTS

Check the protective boot for hole or tears (1). If there is any damage, have your dealer replace it.



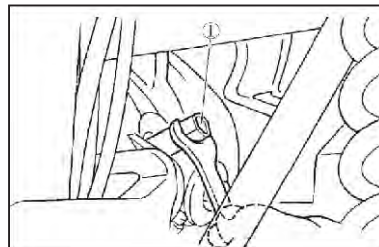
### CHECK THE SPARK PLUG REMOVAL

1. Remove the panel.
2. Remove the spark plug cap.
3. Remove spark plug with wrench in the tool kit as per instruction.

# MAINTENANCE & LUBRICATION

## SPARK PLUG INSPECTION

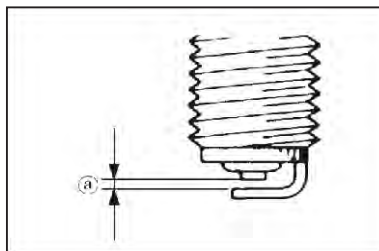
The spark plug is an important engine part and is easy to inspect. The condition of spark plug can indicate the engine condition. For a normal ATV, the ideal color on the white insulator around the center electrode is medium-to-light brown color. Do not attempt to diagnose the problem by yourself, but have your dealer inspect it. Periodically remove and inspect the spark plug, because the heat and deposits will cause the spark plug damage and erode corrosion slowly. If there is excessive electrode erosion or too much carbon and other deposits, replace specific spark plug.



**▲ NOTE: Spark plug specification : DPR7EA-9 (NGK)**

## INSTALLATION

1. Measure the electrode gap with a thickness gauge (a). Adjust the gap as per specification if necessary.



**▲ NOTE: Spark plug gap : 0.8-0.9mm**

2. Inspect deposit, corrosion, or carbon on porcelain head of spark plug electrode and center part. Replace the spark plug if there is excessive deposit. Clean the carbon and deposit with spark plug clean agent or brush.

# MAINTENANCE & LUBRICATION

## INSTALLATION

3. Install the spark plug and tighten it as per stipulated torque.

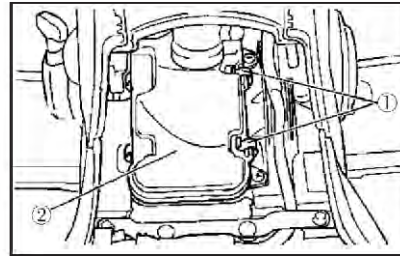
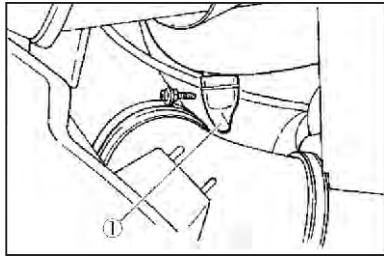
**▲ NOTE: Spark plug torque : 17.5N.m (154. Lbs in)**

If you have no torque wrench when you install the spark plug, 1/4 to 1/2 turn more after tightening the spark plug by hand will be appropriate. Tighten the spark plug to stipulated torque as soon as possible.

4. Install spark plug cap.

5. Install the panel. air cleaner filter element.

**▲ NOTE:** There is a soft hose check valve in the air filter box. If there is dust or water in the soft hose, clean the soft hose, and air filter as well as air filter box.



# MAINTENANCE & LUBRICATION

## CLEANING AIR FILTER ELEMENT

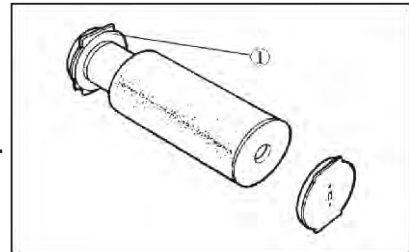
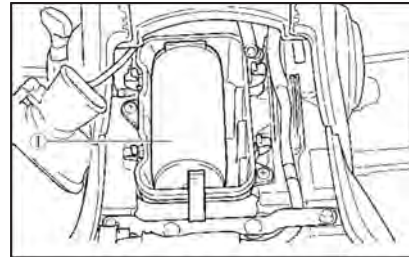
1. Remove the seat.
2. Open the bracket and remove air filter, box cover.
3. Remove air filter.
4. Disassemble air filter from bracket.
5. Clean the air filter with solvent.
6. Squeeze the excessive solvent out of the air filter, and then dry it.

**⚠ CAUTION: Do not damage the air filter when squeezing the solvent out.**

7. Check the air filter and replace it if damaged.
8. Apply special oil or other good quality, foam air filter oil on the air filter. If there is no foam oil, use engine oil.

**⚠ NOTE: The air filter element can be wet, but not dripping.**

9. Pull the air filter element out from the bracket.
10. Install the air filter element.
11. Install air filter, box cover and make sure the soft hose is connected.
12. Install the seat.



# MAINTENANCE & LUBRICATION

## **▲ NOTE**

Clean the air filter element every 20-50 hours; more frequent cleaning and lubrication should be done when operating the vehicle in dusty areas. After each use, inspect the intake hole on the air filter, box cover for obstruction. Inspect the sealing between air filter, rubber connector, and air hose joint of the carburetor. Tighten all fittings securely to avoid unfiltered air to enter the engine.

## **▲ CAUTION**

Do not operate the engine when removing the air filter. That would allow the unfiltered air to enter the engine, and cause engine damage. In addition, operating the engine without air filter device will affect the carburetor jetting performance, and possibly overheat the engine.

## **CLEANING SPARK ARRESTER**

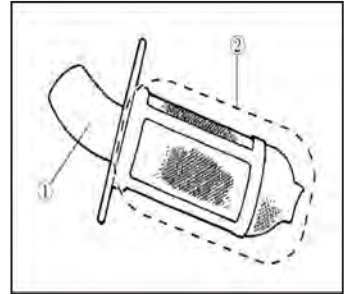
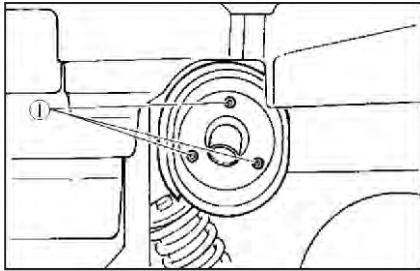
Make sure the exhaust pipe and muffler are cool when cleaning the spark arrester.

1. Remove the bolts.
2. Pull out the pipe from muffler.
3. Tap the exhaust pipe lightly, and remove all carbon deposits from spark arrester in the pipe.

## MAINTENANCE & LUBRICATION

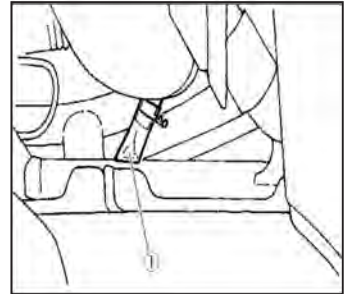
### CLEANING SPARK ARRESTER

4. Insert the exhaust pipe into the muffler aligning the bolt hole (1).
5. Install and tighten the bolts.



### ▲ WARNING

Cool down the muffler before cleaning the spark arrester. Do not operate the engine with spark arrester removed. Inspect the V-belt cooling duct soft hose (1) If there is deposit or water inside, remove the soft hose and clean it.



# MAINTENANCE & LUBRICATION

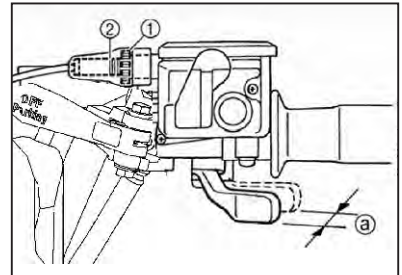
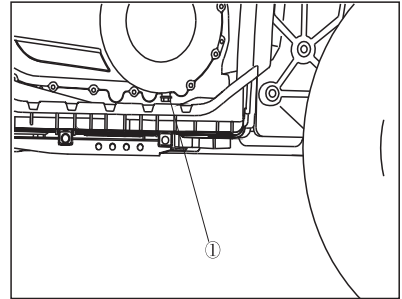
## V-BELT CASE DRAIN BOLT

When riding the vehicle in water, which reaches height of V-belt case, remove the bolt to drain the water from V-belt case (1).

**▲ NOTE:** If draining water from V-belt after removing the drain bolt, have your dealer check the ATV, as water may have affected other engine parts.

## ADJUSTING THROTTLE LEVER

1. Loosen the jam nut (1).
2. Turn the adjusting nut (2) to keep 3-5mm throttle lever free play (a).
3. Tighten the jam nut(1).





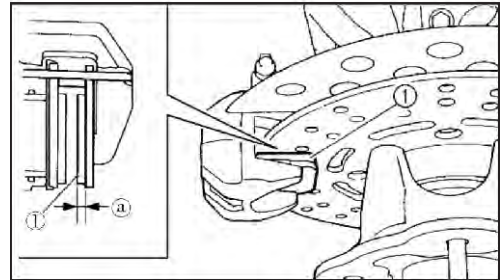
# MAINTENANCE & LUBRICATION

## INSPECTING THE BRAKE CALIPER

Check the brake disc for damage and wear.

If thickness of brake disc is less than 3.0mm (a), have your dealer replace the whole brake pads.

**▲ NOTE:** You need to remove the wheels to check the brake pads.



# MAINTENANCE & LUBRICATION

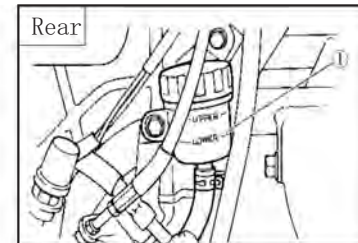
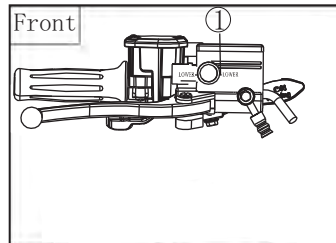
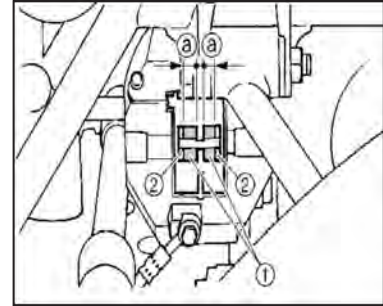
## CHECKING REAR DISC

Check the brake disc for damage and wear. If the brake disc thickness is less than 6.5mm, have your dealer replace the brake pad.

## CHECK THE BRAKE FLUID LEVEL

Insufficient brake fluid may allow air to enter the braking system and cause spongy brakes.

Before riding, check the brake fluid level to insure the fluid level is above the lower limit mark. Add brake fluid if necessary. Front master cylinder reservoir is located on the right side of handlebar. Rear master cylinder fluid reservoir is located near the rear brake pedal.



# MAINTENANCE & LUBRICATION

## CHECKING BRAKE FLUID LEVEL

### OBSERVE THESE PRECAUTIONS:

1. When checking brake fluid level, turn the grip to make sure top level of master cylinder reservoir is level.
2. Only use recommended good quality brake fluid, otherwise, rubber seals will be damaged, causing leakage and poor brake performance.

### **⚠ NOTE: Recommended brake fluid : DOT3 or DOT4**

3. Refill with brake fluid until full. Mixed brake fluid may cause harmful chemical reaction and lead to poor brake performance.
4. Be careful not to allow water to enter the master cylinder reservoir. When refilling brake fluid; water will significantly lower the boiling point of the fluid.
5. Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
6. Have your dealer check the reason why the brake fluid level goes down.

# MAINTENANCE & LUBRICATION

## PROCESS TO REPLACE BRAKE FLUID

Replacement should be done only by trained service technician.

Dealers will replace brake fluid when doing maintenance, or when parts are damaged or if brake fluid leaks.

- Replace oil seal once every two years.
- Replace braking hose once every four years.
- Free play at end of braking lever (a) shall be zero mm; otherwise please ask your dealer to check the Braking System.

## ▲ WARNING

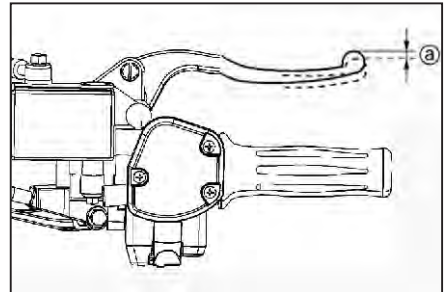
Make sure after maintenance that:

- Braking successfully with enough clearance.
- No problems when braking.
- No air remains in braking system.

Replacement of brake components require professional knowledge.

These procedures should be performed by your dealer.

If adjustment is necessary, please make sure to use the follow procedure.



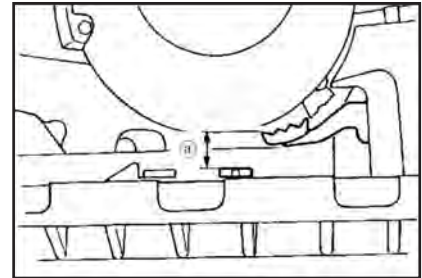
# MAINTENANCE & LUBRICATION

## ADJUSTMENT OF REAR BRAKE LEVER AND FOOT PEDAL

### Adjustment of Rear Brake Lever Clearance

Rear brake lever clearance (C) is 0.5-2mm

1. Unscrew locking screw (1).
2. Turn bolt (2) counter clockwise to tighten (a) Turn bolt (2) clock wise to loosen (b).
3. Tighten screw (1).

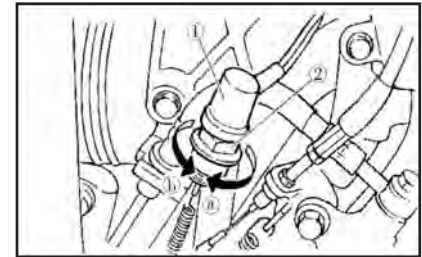


Take the ATV to your dealer if adjustment cannot be done.

**▲ NOTE:** When adjusting clearance:  
Make sure the brakes operate smoothly.  
Braking foot pedal does not move.

### PROCEDURE TO ADJUST HEIGHT OF REAR BRAKING FOOT PEDAL:

**▲ NOTE:** Adjust Rear Braking before checking Rear Brake Gasket.



# MAINTENANCE & LUBRICATION

## REAR BRAKE PEDAL HEIGHT ADJUSTMENT

Turn adjustment nut while pushing rear brake light switch; to advance the brake light on, turn the switch in direction (1) to delay the brake light on turn in the direction (2).

## INSPECTION AND LUBRICATION OF WIRING AND CABLES

### ⚠ WARNING

It is necessary to inspect the wiring and cables often; replace if there is any damage.

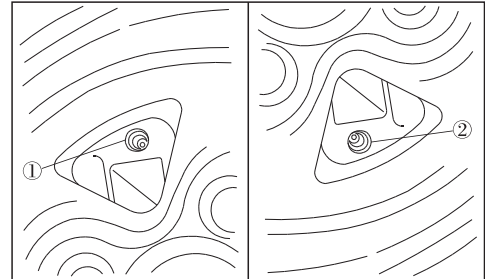
Lubricate the moving point of cables.

If cables are not moving well, contact your dealer for replacement.

### ⚠ NOTE: Recommended lubricant: Oil SAE10W-30

Lubricate the Upper & Lower Shaft Joint of the Rear Steering Knuckle with a Spray Gun.

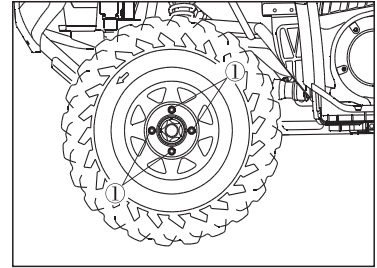
⚠ NOTE: Recommended Lubricant --Lithium base grease



# MAINTENANCE & LUBRICATION

## WHEEL REMOVAL


1. Loosen the wheel nuts (1).
2. Elevate the ATV and place a suitable stand under the frame.
3. Remove the nuts from the wheel.
4. Remove the wheel.

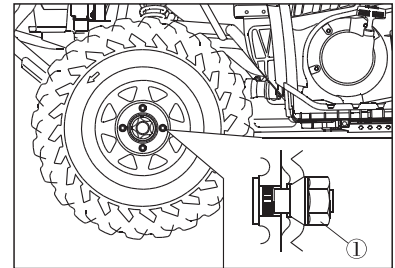
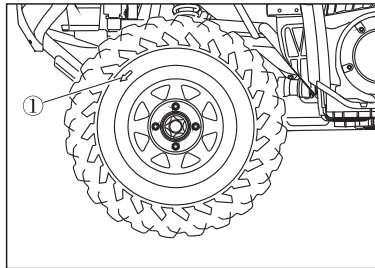


## WHEEL INSTALLATION

1. Install the wheel and the nuts.

**⚠ NOTE:** Apered nuts are used for both the front and rear (1) wheels. Install the nut with its tapered side towards the wheel.

The arrow  mark on the tire must point toward the rotating direction of the wheel (2).



## MAINTENANCE & LUBRICATION

### WHEEL INSTALLATION

2. Lower the ATV so that the wheel is on the ground.
3. Tighten the wheel nuts to the specified torque.

**⚠ NOTE: Wheel nut torque: Front 55N.m (40 lbs ft); Rear : 55N.m (40 lbs ft).**

### BATTERY MAINTENANCE

This machine 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 your dealer.

**⚠ NOTE: Do not try to remove the sealing caps of the battery cells. You may damage the battery.**

### ⚠ WARNING

Avoid contact with skin, eyes, or clothing. Always shield eyes when working near batteries. Keep out of reach of children.

### ANTIDOTE:

**EXTERNAL:** Flush with water. **INTERNAL:** Drink large quantities of water or milk.

Follow with Milk of Magnesia, beaten eggs, or vegetable oil. Get prompt medical attention.

**EYES:** Flush with water for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using in a closed space.



# MAINTENANCE & LUBRICATION

## BATTERY MAINTENANCE

When the machine 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.

**CAUTION:** A special battery charger (constant voltage/ampere or constant voltage) is required for recharging a sealed- type battery.

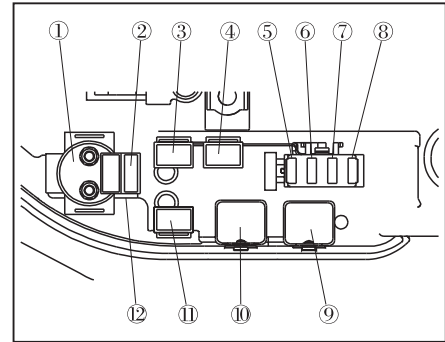
Using a conventional battery charger may shorten the battery life.

## FUSE REPLACEMENT

1. The main fuse case and the fuse box are located under the seat.
2. If a fuse is blown, turn off the main switch and install a new fuse of the specified amperage; then turn on the switches.  
If the fuse immediately blows again, consult your dealer.

## ▲ WARNING

Always use a fuse of the specified rating.  
Never use a material in place of the proper fuse.



- |                        |                           |
|------------------------|---------------------------|
| 1.Start Relay          | 2.Main Fuse ( 20A )       |
| 3.Servo Start Relay 1  | 4.Fuel Pump Relay         |
| 5.Fuse ( 10A )         | 6.Fuse ( 15A )            |
| 7.Fuse ( 15A )         | 8.Fuse ( 10A )            |
| 9.Fan Relay            | 10.Head light Relay       |
| 11.Servo Start Relay 2 | 12.Auxiliary Fuse ( 20A ) |

## MAINTENANCE & LUBRICATION

### ⚠ CAUTION

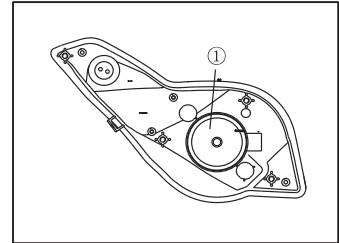
To prevent accidental short-circuiting, turn off the main switch when checking or replacing a fuse.

### REPLACEMENT OF HEADLIGHT BULB

1. Pull out rubber cover at the back of headlight.
2. Remove rear holder of headlight.
3. Remove headlight from headlight rear holder.

### ⚠ WARNING

**Wait until the bulb is cold before touching or removing the bulb.**



# MAINTENANCE & LUBRICATION

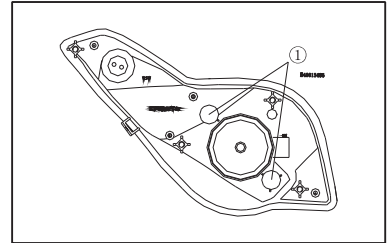
## REPLACEMENT OF HEADLIGHT BULB

4. Insert a new headlight bulb into the headlight bulb holder, and then lock it by spring.
5. Install the bulb holder by turning it clock-wise.
6. Install the rubber cover at the rear of the headlight.
7. Install headlight cover with the bolts.

## HEADLIGHT BEAM ADJUSTMENT

### ⚠ CAUTION

It is advisable to have your dealer make this adjustment.  
Turning the adjusting screws can raise or lower the beam.

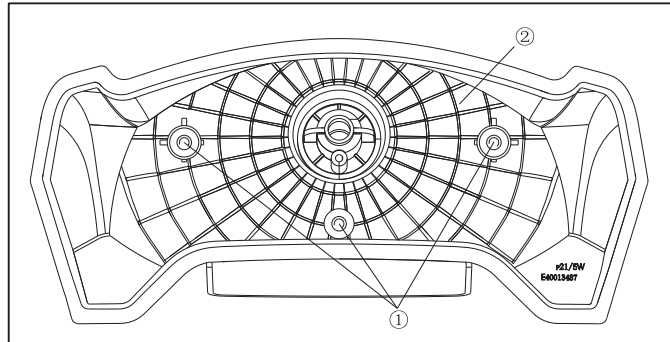


# MAINTENANCE & LUBRICATION

## TAIL LIGHT BULB REPLACEMENT

If the tail/brake light bulb burns out, replace it as follows.

1. Remove the screws, (1) and then pull tail brake light cover (2).
2. Remove the tail brake light bulb by pushing it in and turning it counter-clockwise.
3. Insert a new tail brake light bulb, push it in, and turn it clockwise.
4. Install the tail brake light cover with the screws.



# MAINTENANCE & LUBRICATION

## FRONT AND REAR SUSPENSION ADJUSTMENT

The spring preload can be adjusted to suit the rider's weight and riding conditions.

**▲ NOTE:** When adjusting the rear shock absorbers, the rear wheels need to be removed. Adjust the spring preload as follows.

To increase the spring preload, turn the adjusting ring in direction (a).  
To decrease the spring preload, turn the adjusting ring in direction (b).

### ▲ NOTE:

A special wrench can be obtained from a dealer to this adjustment.  
A special wrench can be obtained from a dealer to make this adjustment.

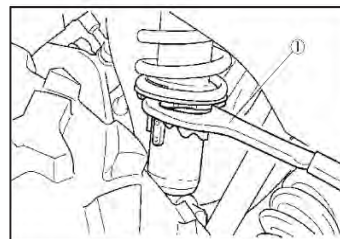
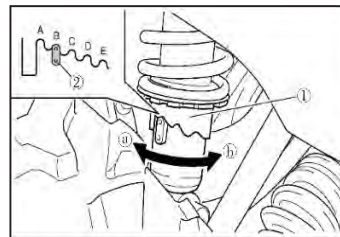
### Standard position:

BA- Minimum (soft)

BE- Maximum (hard)

### ▲ WARNING

Always adjust the shock absorbers on the left and right side to the same setting.



# MAINTENANCE & LUBRICATION

## VEHICLE IMMERSION

### **⚠ CAUTION**

If your vehicle becomes immersed in water, severe engine damage can occur. The vehicle should be completely inspected. Take the vehicle to your dealer before starting the engine. If it is impossible to take your ATV to a dealer before starting it, follow the steps outlined below.

1. Move the ATV to dry land or at the very least, to water below the footrests.
2. Remove the spark plug.
3. Check the air box and drain if there is water in the box.
4. Turn the engine over several times using the electric start.
5. Dry the spark plug and reinstall, or replace it with a new plug.
6. Start the engine; repeat above process several times to dry engine, if necessary.
7. Take the ATV to your dealer for service as soon as possible ,whether you succeed in starting it or not.

**⚠ NOTE:** If water has been ingested into the CVT, follow the procedure on page 103 for drying out the CVT. Otherwise owner shall be responsible for the damage from this.

## CLEANING AND STORAGE

### CLEANING THE ATV

Keeping your ATV clean will not only improve its appearance but it can also extend the life of various components. With a few precautions, your ATV can be cleaned, much like an automobile.

### WASHING THE ATV

The best and safest way to clean your ATV is with a garden hose and a pail of mild soap and water. Use a professional type washing mitt, cleaning the upper body first and the lower parts last. Rinse with water frequently and dry with a chamois to prevent water spots.

**⚠ NOTE: If warning and safety labels are damaged; contact your dealer for replacement. It is not recommended to use high-pressure type car wash systems for washing the ATV. If a high pressure system is used, exercise extreme care to avoid water damage to the wheel bearings, transmission seals, body panels, brakes and warning labels.**

**⚠ NOTE:** Grease all zerk fittings immediately after washing, and allow the vehicle to run for a while to evaporate any waster that may have enter the engine or exhaust system.

### WAXING THE ATV

Your ATV can be waxed with any non-abrasive automotive paste wax. Avoid the use of harsh cleaners since they can scratch the body finish.

## CLEANING AND STORAGE

### **⚠ CAUTION**

Certain products, including insect repellants and chemicals, will damage plastic surfaces. Use caution when using these products near plastic surfaces.

### **⚠ CAUTION**

Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

### **CLEAN THE EXTERIOR**

Make the necessary repairs and then clean the ATV thoroughly with mild soap and warm water to remove all the dirt and grime. Do not use harsh detergents or high-pressure washers. Some detergents deteriorate rubber parts. Use dish soap type cleaners only. High-pressure washers may force water past seals.

### **STABILIZE THE FUEL**

Fill the fuel tank. Add carbon clean fuel treatment or fuel stabilizer . Follow the instructions on the container for the recommended amount. (Carbon Clean will also reduce the possibility of bacterial growth in the fuel system). Allow 15-20 minutes of operation for the stabilizer to disperse through the fuel in the tank and carburetor; then drain the carburetor bowl.



## CLEANING AND STORAGE

### AIP FILTER/AIR BOX

Inspect and clean or replace the pre-cleaner and air filter. Clean the air box and drain the sediment tube.

### BREATHER FILTER

Inspect and clean or replace the breather filter.

### FLUID LEVELS

Inspect the following fluid levels and change if necessary: Front gear case, transmission, brake fluid; (change every 2 years or as required, if fluid looks dark or contaminated).

### LUBRICATE THE ENGINE

Remove the spark plug and add 2-3 tablespoons of Synthetic SAE 15W-40/SF engine oil. To access the spark plug hole, use a section of clear ¼" hose and a small plastic squeeze bottle filled with pre-measured amount of oil.

**▲ NOTE:** Do this carefully! If you miss the plug hole, oil will drain from the spark plug cavity into the hole at the front of the cylinder head, and appear to be an oil leak. Install the spark plug and pull the engine over slowly with the recoil starter. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.

## **CLEANING AND STORAGE**

### **FOG THE ENGINE**

If you choose not to use fogging oil, perform the following procedure.

1. Support the front end of the machine, so the engine is level or tilted slightly rearward.
2. Remove the spark plug. Rotate the piston to BDC and pour approximately two ounces of oil into the cylinder.
3. Apply dielectric grease to the inside of the spark plug cap and install the cap onto the plug.
4. Turn the engine over several times to ensure coverage of piston rings, cylinder walls and crankshaft bearings.
5. Treat the fuel system with Carbon Clean.
6. If a fuel system additive is not used, fuel tank, fuel lines, and carburetor should be completely drained of gasoline. To eliminate fuel remaining in the carburetor, run the engine until it stops.

### **LUBRICATE**

Inspect all cables and lubricate with Cable Lubricant. Follow the Lubricant guidelines in the maintenance section of the service or owner's manual to completely grease and lubricate the entire vehicle with All Season Grease.

# CLEANING AND STORAGE

## BATTERY STORAGE

Remove the battery from the vehicle and ensure that it's fully charged before placing it in storage.

## ENGINE ANTI-FREEZE

Test engine coolant strength and change if necessary. Coolant should be replaced every two years.

## STORAGE AREA/COVERS

Set the tire pressure, and safely support the ATV with the tires 30-50mm off the ground. Be sure the storage area is well ventilated, and cover the machine with an ATV cover.

**⚠ NOTE:** Do not use plastic or coated material. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

## TRANSPORTING THE ATV

Follow these procedures when transporting the vehicle:

1. Turn off the engine and remove the key to prevent loss during transporting.
2. Always place the transmission in park.
3. Be sure the fuel cap, oil cap and seat are installed correctly.
4. Always tie the frame of the ATV to the transporting unit securely, using suitable straps, or ropes.

# CLEANING AND STORAGE

## CHROME WHEEL CARE (IF EQUIPPED)

Proper maintenance will protect chrome wheels from corrosion, preserve wheel life and ensure a “like new” appearance for many years.

1. Wash chrome rims frequently. Use a mild detergent to remove any salt, dirt, mud, or grime.  
Never use abrasive cleaners on plated or painted surfaces.
2. Polish the clean chrome wheels periodically. Use an automotive grade chrome polish.
3. Routinely and liberally apply a weather resistant wax to each polished chrome wheel.  
Choose a product suitable for chrome finishes. Read and follow the product labels and instructions.
4. Chrome wheels exposed to road salt (salt in the air in coastal areas) are more susceptible to corrosion, if not properly cleaned. Clean chrome wheels more often, if they are exposed to salt or other corrosive elements.

## REMOVING CORROSION

If light rust is found on the chrome finish, use steel wool (#0000-OTT grade) to remove it. Gently rub the affected areas with the steel wool until the corrosion has been removed. Clean and polish the wheel as outline above.

# TROUBLESHOOTING

## DRIVE BELT AND COVER PROBLEMS

Possible Cause	Solution
Driving the ATV onto a pickup or tall trailer in high range	Shift transmission to low range during loading of the ATV to prevent belt burning.
Starting out going up a steep incline	When starting out on an incline, use low range or dismount the ATV(after first applying the park brake) and perform the K-turn as discribed on page 72.
Driving at low RPM or low ground speed (at approximately 5-10Km/h)	Drive at a higher speed or use low range move frequently, The use of low range is highly recommended for cooler CVT operating temperatures and longer component life.
Insufficient warm-up of ATVs exposed to low ambient temperatures	Warm the engine before driving, the belt will become more flexible and prevent belt burning.
Slow and easy clutch engagement	Use the throttle quickly and effectively for efficient engagement.
Towing /pushing at low RPM / low ground speed.	Use low range only.
Utility use / plowing snow, etc.	Use low range only.

## TROUBLESHOOTING

Possible Causes	Solution
Stuck in mud or snow	Shift the transmission to low range, and carefully use fast, aggressive throttle application to engage clutch. <b>WARNING:</b> Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position.	Shift the transmission to low range, and carefully use fast, brief, aggressive throttle application to engage clutch. <b>WARNING:</b> Excessive throttle may cause loss of control and vehicle overturn.
belt slippage from water or snow ingestion into the CTV system.	Remove the CTV cover drain the water from CTV.
Clutch malfunction.	Contact your dealer for inspection of clutch components.

# TROUBLESHOOTING

## ENGINE DOESN'T TURN OVER

Possible Cause	Solution
Poor engine performance	Check for fouled plugs or foreign material in gas tank, fuel lines, or carburetor. Contact your dealer for service.
Tripped circuit breaker	Reset the breaker
Low battery voltage	Recharge battery to 12.5VDC
Loose battery connections	Check all connections and tighten
Loose solenoid connections	Check all connections and tighten

## ENGINE PINGS OR KNOCKS

Possible cause	Solution
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	See your dealer
Correct spark plug gap or heat range	Set gap to specs or replace plugs

## ENGINE STOPS OR LOSES POWER

Possible cause	Solution
Overheated engine	Clean radiator screen and core if equipped; Clean engine exterior; See your dealer. See your dealer

# TROUBLESHOOTING

## ENGINE TURNS OVER, FAILS TO START

Possible cause	Solution
Out of fuel	Refuel
Clogged fuel valve filter	Inspect and clean or replace
Water is present in fuel	Drain the fuel system and refuel
Fuel pump out of use	Replace
Old or non-recommended fuel	Replace with new fuel
Fouled or defective spark plug(s)	Inspect plug(s), replace if necessary
No spark to spark plug	Inspect plug(s), verify stop switch is on
Crankcase filled with water or fuel	Immediately see your dealer
Overuse of choke	Inspect, clean and/ or replace spark plugs
Clogged fuel injector	Clean or replace new fuel injector
Low battery voltage	Recharge battery to 12.5 VDC
Mechanical failure	See your dealer



# TROUBLESHOOTING

## ENGINE BACKFIRES

Possible Cause	Solution
Weak spark from spark plugs	Inspect, clean and/or replace spark plugs
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs
Old or non-recommended fuel	Replace with new fuel
Incorrectly installed spark plug wires	See your dealer
Incorrect ignition timing	See your dealer
Mechanical failure	See your dealer

## ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

Possible cause	Solution
Fueled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specified or replace plugs
Loose ignition connections	Check all connections and tighten
Water present in fuel	Replace with new fuel
Low battery voltage	Recharge battery to 12.5 VDC

# TROUBLESHOOTING

## ENGINE RUNS IRREGULARLY, STALLS OR MISFIRES

Possible Cause	Solution
Kinked or plugged fuel vent line	Inspect and replace
Incorrect fuel	Replace with recommended fuel
Clogged air filter	Inspect, clean and replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer
Possible lean or rich fuel mixture	See your dealer
Low or contaminated fuel	Add or change fuel, clean the fuel system
Low octane fuel	Replace with recommended fuel
Clogged fuel filter	Replace filter
Incorrect jetting	See your dealer
Overuse of choke	Inspect, clean and/or replace spark plugs
Fuel is very high octane	Replace with lower octane fuel

# TROUBLESHOOTING

## ENGINE STOPS OR LOSES POWER

Possible cause	Solution
Out of fuel	Refuel
Kinked or plugged fuel vent line	Inspect and replace
Water present in fuel	Replace with new fuel
Overuse of choke	Inspect, clean and/or replace spark plugs
Fouled or defective spark plugs	Inspect, clean and/or replace spark plugs
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specified or replace plugs
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge battery to 12.5VDC
Clogged air filter	Inspect and clean or replace
Reverse speed limiter malfunction	See your dealer
Electronic throttle control malfunction	See your dealer
Other mechanical failure	See your dealer

# TROUBLESHOOTING

## PCODE LIST

PCODE uses 4-digit flashing :

For Example "0650" "0" flashes 10 times, "6" flashes 6 times, "5" flashes 5 times, "0" flashes 10 times.

ITEM#	CODE#	TROUBLE DESCRIPTION
13	P0131	02S 1 Circuit Low Voltage
14	P0132	02S 1 Circuit High Voltage
15	P0032	02S 1 Heater Circuit High Voltage
16	P0031	02S 1 Heater Circuit Low Voltage
17	P0201	Injector 1 Circuit Malfunction
18	P0202	Injector 2 Circuit Malfunction
19	P0230	FPR Coil Circuit Low Voltage or Open
20	P0232	FPR Coil Circuit High Voltage
21	P0336	CKP Sensor Noisy Signal
22	P0337	CKP Sensor No signal
23	P0351	Cylinder 1 Ignition Coil Malfunction
24	P0352	Cylinder 2 Ignition Coil Malfunction
29	P0505	Idle Speed Control Error

## TROUBLESHOOTING

ITEM#	CODE#	TROUBLE DESCRIPTION
30	P0562	System Voltage Low(Battery)
31	P0563	System Voltage High(Battery)
32	P0650	MIL Circuit Malfunction
33	P0693	Tachometer (RPM) Circuit Low Voltage
36	P0694	Tachometer (RPM) Circuit High Voltage
37	P0317	02S 2 Circuit Low Voltage
38	P0318	02S 2 Circuit High Voltage
39	P0038	02S Heater 2 Circuit High Voltage
51	P0037	02S Heater 2 Circuit Low Voltage
52	P0500	VSS No Signal
60	P0850	Park Neutral Switch Error
61	P0445	CCP short to high
62	P0444	CCP short to low/open

## TECHNICAL SPECIFICATIONS

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Overall Size (mm)in	(B) 2100×1180×1230mm(82.6×46.4×48.4in) (C) 2300×1180×1230mm(90.5×46.4×48.4in)
Wheel Base (mm)in	(B) 1290mm(50.7) (c) 1490mm(58.6in)
Min. Ground Clearance (Load)(mm) in	(B)&(C)275mm(10.8in)
Nearest Min. Turning Diameter (L, R) (mm) in	(B)6000mm(226.2in) (C)6500mm(255.9in)
Furthest Min. Turning Diameter (L, R) (mm) in	(B)8000mm(374.0in) (C)9500mm(374.0in)

## TECHNICAL SPECIFICATIONS

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Weight (kg)	(B)344Kg (9922 lbs) (C)358Kg (960 lbs)
Front Track (mm)	(B)&(C) 920mm(36.2in)
Rear Track (mm)	(B)&(C)880mm(34.6in)

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Fuel Capacity (L)	(B)&(C)18L(4.75Gal)
Reserve Fuel Capacity(L)	(B)&(C)4L(1Gal)
Fuel Type	Unleaded Gasoline 93 or Above
Front Axle kg(lbs)	(B)183Kg (490 lbs) (C)194Kg (519 lbs)
Rear Axle kg(lbs)	(B)183Kg (490 lbs) (C)194Kg (519 lbs)

## TECHNICAL SPECIFICATIONS

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Weight(Kg)	(B) 344Kg(9922 lbs) (C)358Kg(960 lbs)
Front Track(mm)	(B)&(C)920mm(36.2in)
Rear Track(mm)	(B)&(C)880mm(34.6in)

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Type	(B)&(C)Hydraulic Disc
Operation Mode	(B)&(C)Manual Operation
Operation Mode	(B)&(C)Manual and Foot Connection Operation
Front Wheel	(B)&(C)Front Wheel 35/Rear Wheel 30
Front ,Rear Suspension	(B)&(C)Indepent Swing Arm



## TECHNICAL SPECIFICATIONS

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Steering Gear	(B)&(C)Mechanical Type
Absorber Front & Rear	(B)&(C)Helix-Spring-Damped Type
Max Turning Angle Frt Wheel °	(B)&(C)31°
Locking Angle of steering (L & R) °	(B)&(C)30°

## TECHNICAL SPECIFICATIONS

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Thermostat °C	(B)&(C)Initial Temperature: $71 \pm 3^{\circ}\text{C}$ Full Opening: $80^{\circ}\text{-}83^{\circ}\text{C}$
Boiling/Freezing Point of Coolant °C	(B)&(C) $109\text{-}35^{\circ}\text{C}$

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)	
Coolant Capacity (L)	(B)&(C)Initial replacement: 2.0L(.5Gal) Replacement 1.9(.50Gal)
Shift peration Mode	(B)&(C)Manual
Muffler Type	(B)&(C)Compound Impedance

## TECHNICAL SPECIFICATIONS

CF500-B/CF600-B(B) and CF500-C/CF600-C(C)		
Battery		Lead Acid Type
Battery Type		12V18AH/12V30AH
Bulb	Front Light	12V 5W×2 ; W5W
	Head Light	H1/H3 12V55W×4
Quantity		Amber Lamp Cover: R10W12V10W
Type	Turning Light	Transparent Lamp Cover: RY10W12V10W
	Rear Brake/Rear Light	Red: R21/5W12V21W/5W 2 PCS
	<b>ENGINE:</b>	Single Cylinder, Liquid-Cooled, SOHC 4-Stroke (B)Bore ×Stroke(mm): 87.5×82 (B)Displacement(ml): 493 (B)Compression Ratio: 10:1 (C)Bore×Stroke(mm): 96×82 (C)Displacement(ml): 594 (C)Compression Ratio: 10:1 Starting: Electrical and Starting /Manual Starting



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### WARRANTY ACTIVATION:

- Dealer & Customer Information
- Dealer Checklist
- Customer Checklist



## CFMOTO WARRANTY COVERAGE

Dear Customer,

Thank you for purchasing a CFMOTO ATV, UTV, SSV, Motorcycle, or Scooter. If any component on your vehicle is found to be defective in materials or workmanship within the terms and conditions of this Limited Warranty, the defective component will be repaired or replaced (at the option of CFMOTO) without charge for parts and/or labor at any authorized dealer located within the United States. The CFMOTO Limited Warranty is subject to the following terms and conditions:

### TERMS & CONDITIONS

- 1. WARRANTY DURATION.** The duration of the Warranty period is one (1) year from the date of the new vehicle purchase from an authorized CFMOTO POWERSPORTS, Inc., Dealer. The warranty coverage is invoked from the purchase and use of CFMOTO vehicles only within the continental United States. During the warranty period, CFMOTO POWERSPORTS, Inc. will cover parts and labor costs incurred by an authorized CFMOTO POWERSPORTS, Inc., Dealer arising from a defect in material and/or workmanship of a CFMOTO vehicle. Any vehicles used for commercial purposes will have their warranty period reduced to six (6) months. If CFMOTO POWERSPORTS, Inc., covers a full engine replacement or a complete vehicle replacement under this warranty, the warranty period does not get extended and remains the same as the original purchase date of the vehicle at issue.
- 2. WARRANTY LIMITATIONS.** CFMOTO POWERSPORTS, Inc., provides warranty coverage for one (1) year on all parts and labor for all of its new CFMOTO Motorcycles, Scooters, ATVs, UTVs, and SSVs. However, the following coverage, exceptions, and limitations apply to all CFMOTO vehicles:

a. **A 30-DAY WARRANTY** coverage period applies to all new CFMOTO vehicles in relation to the vehicles':

- Battery
- Spark Plugs
- Air Filters
- Oil and Fuel Filters

b. **A 90-DAY WARRANTY** coverage period applies to all new CFMOTO vehicles in relation to the vehicles':

- Drive Belts
- Gear Shift, CVT, and Wet Clutches
- Throttle, Brake, and Clutch Cables
- Front/Rear Rims
- Front/Rear Tires
- Front/Rear Brake Pads or Shoes
- Front/Rear Brake Discs or Drums
- Wheel or Steering Stem Bearings and Seals
- Rubber Parts/Engine Mounts/Grips/Boots
- Brake or Clutch Levers
- Floor Boards or Pegs
- ATV/UTV/SSV Winch
- Light Bulbs/Fuses
- Body Plastics and Cosmetic Defects



**3. EXCLUSIONS FROM WARRANTY COVERAGE.** Any Damage resulting from the following acts or circumstances is not covered by the CFMOTO POWERSPORTS, Inc., Limited Warranty:

- Fire
- Collision
- Theft
- Unavoidable natural disasters
- Improper storage or transportation
- Failure or negligence in the performance of periodic vehicle maintenance
- Improper or negligent use or operation
- Unauthorized repair or adjustment
- Unauthorized modifications or performance upgrades
- Use of vehicle as a rental vehicle
- Use of vehicle in competitive or racing events

**4. VEHICLE CARE AND MAINTENANCE.** The vehicle's owner must properly use, maintain, and care for the vehicle as outlined in the CFMOTO POWERSPORTS, Inc., Owner's Manual. Any warranty repairs must be performed exclusively by CFMOTO POWERSPORTS, Inc., authorized Dealers. Any warranty work performed by anyone other than an authorized CFMOTO Dealer will not be covered under the CFMOTO POWERSPORTS, Inc., Limited Warranty policy.

**5. TRANSFER OR CONTINUATION OF WARRANTY.** This warranty is transferable only under the following conditions:

- Transfer information must be provided to an authorized CFMOTO POWERSPORTS, Inc.. dealer, who will then forward the information to CFMOTO POWERSPORTS, Inc.;
- The complete model and serial number as shown on the original warranty document must be provided;

- The name and address of the existing and new owners must be provided;
  - The original delivery date of the vehicle must be provided;
  - The new owner must indicate in writing that he/she has received and read the vehicle's Owner's Manual and the CFMOTO POWERSPORTS, Inc. Warranty Policy.
- 6. WARRANTY REGISTRATION.** The Dealer must register the vehicle online and provide the completed registration form to CFMOTO POWERSPORTS, Inc., within seven (7) days of completing the sale of the vehicle. Please note that NO warranty claims will be processed unless the product warranty online registration form is completed and the form is received by CFMOTO POWERSPORTS, Inc., from the Dealer.
- 7. CUSTOMER ASSISTANCE.** Any questions regarding your CFMOTO vehicle or related products should be directed to an authorized CFMOTO dealer. However, if a dealer is not available to answer customer concerns, or address a technical issue with a CFMOTO vehicle or product, CFMOTO POWERSPORTS, Inc., customer representatives can be contacted directly at (763) 398-2690 or by e-mail at [info@cfmoto-us.com](mailto:info@cfmoto-us.com).
- 8. DEALER RESPONSIBILITIES.** A CFMOTO authorized Dealer must perform warranty coverage repairs at no charge to the customer, even if they are not the dealer that sold the CFMOTO vehicle to the customer and must use CFMOTO OEM parts for all warranty repairs. All vehicles sold by the dealer must be inspected and tested by the dealer to ensure proper performance and operation prior to delivery to the customer. No vehicles may be delivered to a customer without first passing a dealer inspection and an operational test.
- 9. COMMERCIAL USE.** The duration of the warranty for commercial use shall be limited to a period of six (6) months instead of one year for recreational use. All other conditions and limitations shall apply.

- 10. TIRES PROVIDED AS ORIGINAL EQUIPMENT.** Other than provided herein, vehicle tires supplied as original equipment are warranted separately by the individual tire manufacturer or its representatives.
- 11. DISCLAIMER.** NO EXPRESS WARRANTY IS PROVIDED BY CFMOTO POWERSPORTS, INC. WITH RESPECT TO CFMOTO VEHICLES EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE, BY STATUTE OR OTHERWISE, ARE HEREBY STRICTLY LIMITED TO THE TERMS OF THIS WRITTEN LIMITED WARRANTY.
- 12. INTEGRATION.** This limited warranty supersedes any and all oral, express, or written warranties, statements, or undertakings that may previously have been made, and contains the entire agreement of the parties with respect to the warranty of CFMOTO vehicles. Any and all warranties not contained in this Agreement are specifically excluded. This warranty extends to each original (and subsequent) owner of any CFMOTO ATV, UTV, SSV, Motorcycle, or Scooter for the term of the original warranty period. This limited warranty shall be the sole and exclusive remedy available to the customer with respect to the covered CFMOTO vehicle. In the event of any alleged breach of any warranty or any legal action brought by the customer based on alleged negligence or other conduct by CFMOTO POWERSPORTS, Inc., or its related parties, the customer's sole and exclusive remedy will be repair or replacement of defective components as stated above, unless otherwise provided by law. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply if they are deemed inconsistent with the controlling state law.

## **CFMOTO EMISSIONS LIMITED WARRANTY**

This emissions limited warranty is in addition to the CFMOTO standard limited warranty for your vehicle and is likewise subject to the terms and conditions set forth above. CFMOTO Powersports Inc., warrants that at the time of sale, your USEPA and CARB certified vehicle is designed, built and equipped so it conforms to applicable U.S. Environmental Protection Agency emission regulations. CFMOTO Powersports Inc., also warrants that your USEPA certified vehicle is free from defects in materials and workmanship that may keep it from meeting U.S. Environmental Protection Agency emission regulations.

The emissions limited warranty period initiates from the date of the new vehicle purchase from an authorized CFMOTO POWERSPORTS, Inc., Dealer and continues for a period of thirty-six (36) calendar months from the date of purchase. This emissions limited warranty covers components whose failure increases the vehicle's regulated pollutant, including components listed in 40 CFR part 1068, Appendix I, and it covers components of systems whose only purpose is to control emissions. The emission-related warranty covers these components even if another company produces the component. Your emission-related warranty does not cover components whose failure would not increase an engine's emissions of any regulated pollutant. Where a warrantable condition exists, a CFMOTO authorized Dealer will repair your vehicle at no cost to you, including diagnosis, parts, and labor.

### **TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED**

Owners are warned that Federal law prohibits:

- The removal or rendering inoperative by any person other than for the purpose of maintenance, repair, or replacement of any device or element of design incorporated into any new CFMOTO vehicle for the purpose of noise control, prior to its sale or delivery to the customer, or while it is in use by the

customer after purchase;

- The use of the vehicle after such devices or elements of design have been removed or rendered inoperative by any person is prohibited.

Acts which are likely to constitute tampering are:

- Removal of or tampering with the mufflers, baffles, or header pipes, or any other component which conduct exhaust gases.
- Removal of, or puncturing of, any part of the air intake system.
- Replacement of any parts of the exhaust or air intake system with any parts other than OEM parts specified by CFMOTO.

WARNING: CFMOTO vehicles should be checked for part repair or replacement if the vehicle noise increases significantly through use by the customer. Failure to do so may subject the owner of the vehicle to penalties or fines under state and local ordinances.

**USA**

<b>INSPECTION REGISTRATION CARD</b>	SERVICING MUST BE CARRIED OUT ACCORDING TO THE SCHEDULE DEFINED IN THE PRODUCTS USE AND MAINTENANCE BOOKLET					
INSPECTION NUMBER	1	2	3	4	5	6
Date						
Km/Miles						
Stamp and Signature of the Dealer						

<b>INSPECTION REGISTRATION CARD</b>	SERVICING MUST BE CARRIED OUT ACCORDING TO THE SCHEDULE DEFINED IN THE PRODUCTS USE AND MAINTENANCE BOOKLET					
INSPECTION NUMBER	7	8	9	10	11	12
Date						
Km/Miles						
Stamp and Signature of the Dealer						

**USA**

## CHANGE OF OWNERSHIP

If you sell the product, any valid remainder of the warranty can be transferred to the new Owner.

Please record the details of the exchange below and inform an Authorized **CFMOTO Dealer**.

<b>REGISTRATION OF CHANGE OF OWNERSHIP</b>	<b>2<sup>nd</sup> OWNER</b>	<b>3<sup>rd</sup> OWNER</b>	<b>4<sup>th</sup> OWNER</b>
OWNER'S NAME			
ADDRESS			
TOWN/CITY			
STATE-ZIP			
TELEPHONE			
E-MAIL			
DATE OF PURCHASE			
ODOMETER READING			
NEW OWNER SIGNATURE			

### IMPORTANT:

If the details contained in the Change of Ownership Application form do not include the required details or are inaccurate, we reserve the right to investigate the actual ownership of the product and its service history and possibly refuse the application if the requirements for transfer have not been fulfilled.



### Recommended Periodic Maintenance Chart (4 - Wheeler)

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		HOUR	CALENDAR	MILES	
■	Steering	—	Pre-Ride	—	Make adjustments as needed. See Pre-Ride Checklist in Owner's Manual
▶	Front Suspension	—	Pre-Ride	—	
▶	Rear Suspension	—	Pre-Ride	—	
	Tires	—	Pre-Ride	—	
▶	Brake Fluid	—	Pre-Ride	—	
▶	Brake Level and Lever Travel	—	Pre-Ride	—	
	Brake System	—	Pre-Ride	—	
	Wheels/fasteners	—	Pre-Ride	—	
	Frame Fasteners	—	Pre-Ride	—	
▶	Engine Oil level	—	Pre-Ride	—	
▶	Air Inlet, Air Filter				Inspect and clean if necessary
▶	Air box Sediment Tube				Drain deposits when visible
	Coolant	50 H	Daily	1500	Check level daily / change coolant Every 2 years or 6000km/200H, but initial check should be done after 20 H or 750 km.

	Headlight / tail light		Daily		Check operation; apply dielectric grease if replacing
	Air filter element	50 H	—	1500	Inspect. Clean every 1000 km or 100 hours. Replace initial replacement should be done after 750 km or 20 H.
	CVT outlet pipe		Weekly		Drain water as needed, check often if operating in wet conditions
	Brake pad wear	10 H	Monthly	100	Inspect periodically
	Battery	20 H	Monthly	200	Check terminals; clean; test
▶	Front gear case oil	25 H	Monthly	250	Inspect level; change yearly
▶	Rear gear case oil	25 H	Monthly	250	Inspect level; change yearly
▶	Transmission oil	25 H	Monthly	250	Inspect level; change yearly
▶	Engine oil change (Break-in)	20 H		250	Change
▶	General lubrication	50 H	3 M	500	Lubricate all fittings, pivots, cables, etc.
	Steering knuckle	50 H	6 M	500	lubricate
■	Steering handlebar	50 H	6 M	500	lubricate
▶	Front suspension	50 H	6 M	500	lubricate
	Rear suspension	50 H	6 M	500	lubricate
	Gearshift	28 H	1 M	500	Inspect, lubricate, adjust

■	Throttle cable/Switch	50 H	6 M	500	Inspect; adjust; lubricate; replace if necessary
■	Drive belt, CVT	50 H	6 M	1500	Inspect; adjust; replace if necessary. Replace for every 3000 km
	Cooling system	50 H	6 M	500	Inspect coolant strength seasonally; pressure test system yearly
▶	Engine oil change	100 H	Year	3000	Perform a break-in oil change at 25 hours/750 km
▶	Fuel hose	100 H	Year	1000	Inspect routing, condition, Replace high pressure fuel hose every 4 years
■	Valve clearance	100 H	Year	3000	Inspect, Adjust, Initial: 750 km, or 20 H
■	Fuel system	100 H	Year	1000	Inspect cap of fuel tank, fuel pump and fuel relay.
■	Oil filter	100 H	Year	3000	Initial change: 750 km or 20 H
▶	Radiator	200 H	24 M	3000	Inspect; clean external surfaces
▶	Cooling hoses	100 H	Year	1000	Inspect. Initial: 300 km or 10 H
▶	Engine mounts	100 H	Year	3000	Inspect. Initial: 300 km or 10 H
	Exhaust pipe and muffler	100 H	Year	1000	Inspect
	Ignition coil	100 H	Year	1000	Inspect and replace as needed
■	ECU	100 H	Year	1000	Inspect and replace as needed

	Wirings and cables	100 H	Year	1000	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.
■	Clutches(drive and driven pulley)	100 H	Year	3000	Inspect; clean; replace worn parts
	Wheel bearings	100 H	Year	1600	Inspect and replace as necessary
	Brake fluid	100 H	Year	2000	Change every two years
	Spark plug	100 H	Year	3000	Initial: 750 km or 20 H. Replace every 6000 km
	Idle condition				Inspect every component. 1300 ± 100 r/min
■	Toe adjustment				Inspect periodically; adjust when parts are replaced
	Auxiliary brake				Inspect daily; adjust as needed
■	Headlight aim				Adjust as needed

(typical) (For specific vehicle information, refer to the owners manual)

- ▶ Perform these procedures more often for vehicles subjected to severe use.
- Have an authorized dealer perform these services.



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