



OWNER'S MANUAL

⚠ READ THIS MANUAL CAREFULLY
It contains Important safety Information
This ROV should not be ridden by anyone
under 16 years of age.

CF500UTR-2/CF800UTR-2



CFMOTO

**CFMOTO
500
800**

FOREWORD

Rider Safety



The safety alert symbol, on your vehicle or in this manual, alerts you to the potential for injury.

WARNING

The safety alert warning indicates a potential hazard that may result in serious injury or death.

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.

FOREWORD

WARNING

Improper operation of this vehicle could result in serious injury or death.

NEVER:

- operate without necessary guide and training.
- operate at speeds beyond your skills, the conditions and terrain.
- overload the vehicle when driving.
- operate with more than one passenger.
- operate on paved roads - pavement may seriously affect handling and control.

ALWAYS:

- use proper driving skills, when driving on hills, rugged roads and sharp turns, to avoid rollover.
- wear goggles, helmet and protective clothing.
- Use safety belt during operation.



ALWAYS USE AN APPROVED, SUITABLE HELMET AND PROTECTIVE GEAR FOR OPERATOR AND PASSENGER.

NEVER USE DRUG OR ALCOHOL BEFORE OR WHEN RIDING.

FOREWORD

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 headache, giddy, disgusting or lose consciousness, even death.

WARNING

Engine box cover, brake disc and muffler exhaust pipe will be hot easily after long period usage. Avoid being burned by those parts.

FOREWORD

Introduction

Thank you for purchasing a CFMOTO vehicle.

This Owner's Manual is intended to acquaint the owner/operator with the various vehicle controls and safe operating instructions. It contains important safety information, driving skills, along with basic maintenance and inspection procedures. If you have any questions regarding the operation or maintenance of your vehicle, please consult a CFMOTO dealer.

CAUTION: Please respect the following instructions to protect your catalytic converter.

- Use only unleaded gasoline, even if the gasoline contains a little lead. Lead could damage the noble metal contained in catalytic converter and disable it.
- Never add the rust preventive oil and engine oil into muffler, otherwise it could disable the catalytic converter.

EVAP (only applicable in some areas where EVAP is required by laws or regulations, such as California in America)

Do not modify EVAP(Evaporative Emission Control System), otherwise it could be against the emission regulations. Ensure that all the hoses are not clogged or kinked, otherwise it could damage the fuel pump or distort the fuel tank.

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.

FOREWORD

Table of Contents

FOREWORD

FOREWORD	1
Rider safety.....	1
Introduction.....	4

SAFETY INFORMATION

GENERAL PRECAUTIONS	11
Avoid Carbon Monoxide Poisoning.....	11
Avoid Gasoline Fires and Other Hazards.....	11
Avoid Burns from Hot Parts.....	11
Accessories and Modifications.....	12
SAFE OPERATION - RESPONSIBILITIES	12
Owner - Be Responsible.....	12
Operator - Be Qualified and Responsible.....	12
Riding Carefully.....	13
Occupant Restraint System	14
Terrain Condition.....	14
PRE-RIDE INSPECTION	16
Pre-Ride Inspection Check List.....	16

FOREWORD

PREPARE TO RIDE	20
Before you Go.....	20
Riding Gear.....	20
AVOID ACCIDENTS	21
Avoid Rollovers and Tipovers.....	21
Avoid Collisions.....	23
RIDING YOUR VEHICLE	23
Practice Exercises.....	23
Off-Road Operation.....	25
General Riding Techniques.....	25
MOVING LOADS AND DOING WORK	30
Working with your Vehicle.....	30
Carrying Loads.....	30
Hauling a Load.....	32
Pulling a Trailer.....	32
WARNING DECALS AND LOCATION	33
Safety Decals.....	33
 VEHICLE INFORMATION	
PRIMARY CONTROLS	39
Steering Wheels.....	39
Throttle Pedal.....	39
Brake Pedal.....	39

FOREWORD

Shift Lever.....	40
SECONDARY CONTROLS	42
Ignition Switch.....	42
Multifunction Lever.....	42
2WD/4WD Switch.....	45
4WD/LOCK Switch.....	46
Front Hood.....	46
Winch Switch.....	46
Override Switch.....	47
Hazard Switch.....	47
12V DC Outlets.....	48
Clock Button.....	48
SET Button.....	48
MULTIFUNCTION METER	49
General Description.....	49
EQUIPMENT	53
Footrests.....	56
Tilt Steering.....	56
Winch Cable Control Connector.....	56
Tool Kit.....	56
Glove Compartment.....	56
Passenger Handholds.....	56
Driver Seat.....	57

FOREWORD

Passenger Seat.....	57
Seat Belts.....	57
Shoulder Guards.....	57
Winch.....	58
Side Doors.....	58
Fuel Cap.....	58
Anchoring Hooks.....	58
Hitch Support.....	58
Cargo Box.....	58
Cargo Box Tilt Release Handles.....	58
SUSPENSION	58
Suspension Adjustment Guideline.....	58
FUEL	59
Recommended Fuel.....	59
Vehicle Fueling Procedure.....	60
BREAK-IN PERIOD	61
Operation During Break-in.....	61
PRE-RIDE INSPECTION	62
BASIC PROCEDURES	64
Starting the Engine.....	64
Shifting the Transmission.....	64

FOREWORD

SPECIAL PROCEDURES	65
Cleaning the CVT Inlet.....	65
What to do if Water Collects in CVT.....	65
What to do if Vehicle is Submerged.....	65
Transporting the Vehicle.....	66
MAINTENANCE SCHEDULE	67
Severe Use Definition.....	67
Maintenance Chart Key.....	68
Periodic Maintenance Chart.....	69
Lubrication Recommendations.....	73
Lubrication Chart.....	73
MAINTENANCE PROCEDURES	74
Air Filter.....	74
Spark Arrestor.....	75
Engine Oil.....	76
Rear Gearcase Oil.....	79
Front Differential Oil.....	80
Cooling System.....	81
Spark Plugs.....	84
Battery.....	86
Fuses.....	87
Lights.....	88
Drive Shaft Boots.....	89

FOREWORD

Wheel Bearing.....	90
Wheel and Tires.....	90
Suspension.....	91
Brakes.....	91
Throttle Body.....	92
Valve Clearance Adjustment.....	93
<i>VEHICLE IDENTIFICATIONS</i>	
VEHICLE IDENTIFICATIONS.....	94
Engine Identification Number.....	94
Vehicle Identification Number.....	94
<i>SPECIFICATIONS</i>	
SPECIFICATIONS.....	99
<i>TROUBLESHOOTING</i>	
TROUBLESHOOTING GUIDELINES.....	105
TROUBLESHOOTING THE EFI SYSTEM.....	110

SAFETY INFORMATION

General Precautions

Avoid Carbon Monoxide Poisoning

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion and eventually death.

Carbon monoxide is a colorless, odorless, tasteless gas that may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly, and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas.

To prevent serious injury or death from carbon monoxide:

- Never run the vehicle in poorly ventilated or partially enclosed areas.
- Never run the vehicle outdoor where engine exhaust can be drawn into a building through openings such as windows and doors.

Avoid Gasoline Fires and Other Hazards

Gasoline is extremely flammable and highly ex-

plosive. Fuel vapors can spread and be ignited by a spark or flame many feet away from the engine.

To reduce the risk of fire or explosion, follow these instructions:

- Use only an approved gasoline container to store fuel.
- Never fill the gasoline container in the vehicle cargo box or on the vehicle - an electrical static discharge may ignite the fuel.
- Strictly adhere to fueling procedure.
- Never start or operate the engine if the fuel cap is not properly installed.

Gasoline is poisonous and can cause injury or death.

- Never siphon gasoline by mouth.
- If you swallow gasoline, get any in your eye(s), or inhale gasoline vapor, see a doctor immediately.
- If gasoline spills on you, wash with soap and water and change your clothes.

Avoid Burns from Hot Parts

The exhaust system and engine become hot during operation. Avoid contact during and

SAFETY INFORMATION

shortly after operation to avoid burns.

Accessories and Modifications

We are concerned for the safety of our customers and for the general public. Therefore, it's strongly recommended not to install on a CFMOTO vehicle any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Since modifications to your vehicle may negatively impact vehicle stability and result in serious injury or death.

The warranty on your CFMOTO vehicle is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increase 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 CFMOTO-approved accessories, and familiarize yourself with their function and effect on the vehicle.

Safe Operation - Responsibilities

Owner - Be Responsible

Read this Owner's Manual thoroughly and take a training course if available.

Always inspect and confirm the safe operating condition of your vehicle prior to ride.

Always follow the maintenance schedule described in this Owner's Manual.

Never allow anyone to operate your vehicle unless they have read this Owner's Manual and warning decals on this vehicle and can fully understand them. Advise your new drivers of vehicle operation, driving rules and limits (e.g., whether they can carry passenger, what they may do with the vehicle, where they may ride, etc). Be sure that all operators and passengers meet the qualifications below and agree to follow the safety information.

Operator - Be Qualified and Responsible

Read this Owner's Manual and the warning decals on this vehicle carefully. Take a safety training on open areas if available. Practice at low speeds. Higher speeds require greater

SAFETY INFORMATION

experience, knowledge and suitable riding conditions. Become completely familiar with the operational controls and the general operation of the vehicle.

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age. Be tall enough to be properly seated: back against the backrest with the seat belt fastened, to hold the steering wheel with both hands and still be able to reach the full stroke of brake and throttle pedals with the right foot and to firmly plant left foot on the footrest.

Have a proper driver's license in accordance with local laws.

Carrying Passenger

Only carry one passenger. The passenger must be properly seated in the passenger seat.

The passenger must be at least 12 years old and tall enough to always be properly seated: back against the backrest with seat belt fastened, holding both handholds, and feet firmly planted - right foot on the footrest and the left foot on the vehicle floor.

Never carry a passenger who has used drugs or alcohol, or is tired or ill. These slow reaction time and impair judgment.

Instruct the passenger to read the vehicle's safety labels.

Never carry a passenger if you judge his ability or judgement insufficient to concentrate on the terrain conditions and adapt accordingly. More specifically for side-by-side vehicles, the passenger must also pay constant attention to the terrain ahead and be able to brace for bumps.

Riding Carefully

- This vehicle is not a toy and can be hazardous to operate. This vehicle handles differently from other vehicles, such as motorcycles, cars. A collision or rollover can occur quickly, during abrupt maneuvers such as doing sharp turns, acceleration or deceleration and driving on hills or over obstacles, if you fail to take proper precautions.
- Never operate at excessive speeds. Always go at a speed that is proper for the terrain, visibility, and operating conditions, and your experience.

SAFETY INFORMATION

- Never attempt jumps, side slides, donuts or any other stunts.
- Never attempt rapid acceleration or deceleration when performing a sharp turn. This may result in a roll over. Never attempt skidding or sliding. If vehicle starts to skid or slide, counter steer in the direction of skidding or sliding. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding out of control.
- Always be sure there are no obstacles or people behind the vehicle when reversing. Pay attention to blind spots. When it is safe to proceed in reverse, go slowly.
- Never exceed the stated load limits for this vehicle. Cargo must be properly secured. Reduce speed, allow for greater braking distance and follow other instructions in this manual.
- Ensure that the cargo is well distributed in cargo box. Otherwise, it could change the center-of-gravity and may result in rollover.

Occupant Restraint System

- This vehicle is designed to carry one driver and one passenger, both wearing proper protective gears.
- The driver and passenger must latch the side doors and wear the seat belts at all times when riding.

Terrain Condition

- Avoid sharp turns, abrupt acceleration and sudden braking when passing public roads.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating this vehicle. Take the time to learn how the vehicle performs in different environments.
- Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control this vehicle on such terrain. Always be especially cautious on these kinds of terrain.
- Never operate this vehicle on hills too steep for the vehicle or your abilities. Practice on small inclines.

SAFETY INFORMATION

- Always follow proper procedures for climbing or going down hills. Never go over the top of any hill at high speed.
- Never attempt steep hills or side hilling when pulling a trailer.
- Always check for obstacles before operating in a new area. Always follow proper procedures when operating over obstacles or fallen trees.
- Never operate this vehicle in deeper water or fast flowing water. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the brakes.
- Always ensure to properly park the vehicle on the flattest terrain section available. Put shift lever in PARK, stop engine, remove key before leaving the vehicle.
- Never assume that the vehicle will go everywhere safely. Sudden changes in terrain caused by holes, depressions, banks, softer or harder “ground” or other irregularities may cause the vehicle to topple or become unstable. To avoid this, slow down and always observe the terrain ahead. If the vehicle begins to topple or rollover, the best advice is to immediately steer in the direction of the rollover. Never attempt to prevent a rollover with your arms or legs. You should keep your limbs inside the cage.

SAFETY INFORMATION

Pre-ride Inspection

Always inspect and confirm the safe operating condition of your vehicle prior to ride. Always follow the maintenance schedule described in this Owner's Manual.

 WARNING

Perform a pre-ride inspection before each ride to detect any potential problem that could occur during operation. The pre-ride inspection can help you monitor component wear and deterioration before they become a problem.

Pre-Ride Inspection Check List

What to Do Before Starting the Engine (Key OFF)

ITEM	INSPECTION TO PERFORM	REMARKS
Tires	Check tire pressure and condition. Front: 80 kPa (11.6 PSI) Rear: 100 kPa (14 PSI)	
Wheels	Check wheels and wheel nuts for damage.	
Radiator	Check cleanliness of the radiator.	
Engine oil	Check engine oil level.	
Coolant	Check coolant level.	
Air filter	Inspect the air filter.	
Drive shaft boots	Check drive shaft and drive shaft boots conditions.	

SAFETY INFORMATION

ITEM	INSPECTION TO PERFORM	REMARKS
Cargo and load	<p>Cargo Load: If you transport a cargo, respect the rear cargo box capacity of 150 kg(330 lb). Ensure cargo is properly secured to the rear cargo box.</p> <p>Vehicle Load: Ensure that total load on the vehicle (including operator, passenger, cargo and added cargo and load accessories) does not exceed 350 kg.</p>	
	<p>If you are pulling a trailer or another equipment:</p> <ul style="list-style-type: none"> – Check hitch and trailer ball condition. – Respect the tongue capacity and towing capacity. – Ensure trailer is properly secured to hitch. 	
Rear cargo box	Check if the cargo box is properly latched.	
	Check if the tail gate is properly latched.	
Chassis and suspension	Check underneath vehicle for any debris on chassis or suspension and clean them properly.	

SAFETY INFORMATION

What to Do Before Starting the Engine (Key ON)

ITEMS	INSPECTION TO PERFORM	REMARKS
Dashboard	Check operation of indicator lights in dashboard.	
	Check for messages in dashboard.	
Lights and reflectors	Check cleanliness of headlights, taillights, turn signals, position lights and reflectors.	
	Check operation of headlights (high and low beams), brake lights, turn signals and position lights.	
	Check operation of hazard lights.	
Seats, side nets and seat belts	Check if seats are properly latched.	
	Check if side doors are properly latched.	
	Check seat belts for any damage. Fasten seat belts and confirm that they latch securely.	
Throttle pedal	Press on the throttle pedal a few times to ensure it operates freely and it returns to the rest position when released.	
Brake pedal	Press down on the brake pedal and make sure you feel firm resistance and that it fully returns to position when released.	
Fuel level	Check the fuel level.	
Horn	Check horn operation.	
Mirrors	Adjust mirrors to proper positions.	

SAFETY INFORMATION

What to Do After the Engine is Started

ITEMS	INSPECTION TO PERFORM	REMARKS
Steering	Check if steering operates freely by completely turning it from side to side.	
Ignition switch	Turn the ignition switch to OFF to verify if engine will shut down. Restart engine.	
Shift lever	Check operation of shift lever (P, R, N, H and L).	
2WD/4WD and 4WD/LOCK switch	Check operation of 2WD/4WD and 4WD/LOCK switches.	
Brakes	Drive forward slowly a few feet and apply brakes. The brake pedal must feel firm when applied. The pedal must return to rest position when released. The brakes must respond adequately to the driver's input.	

SAFETY INFORMATION

Prepare To Ride

Before you Go

Perform pre-ride inspection to confirm the safe operating condition of your vehicle.

Refer to PRE-RIDE INSPECTION subsection.

Driver and passenger must:

- Be properly seated.
- Latch both side nets and fasten seat belt.
- Wear appropriate riding gear. (Refer to RIDING GEAR subsection below.)

Riding Gear

It is important that the operator and passenger always wears appropriate protective clothing and apparel.

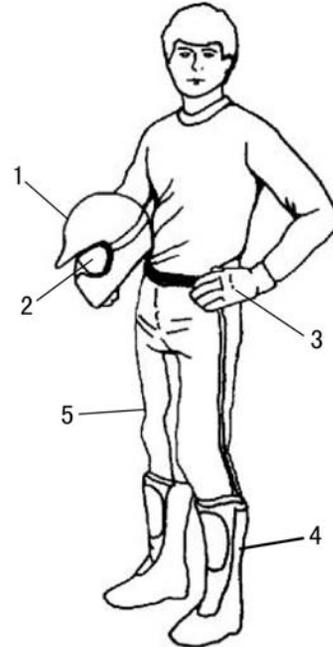
1. Helmet

An approved helmet can protect the head and brain from injury.

2. Eye Protection

Ordinary glasses or sunglasses are not sufficient eye protection for riders. They can shatter or fly off, and they allow wind and airborne objects to reach the eyes. A hel-

met with face protection or a pair of goggles offer better eye protection. Eye protection must be shatterproof and kept clean.



SAFETY INFORMATION

3. Gloves

A pair of off-road gloves with knuckle protection can protect your hands in the event of an accident or a rollover.

4. Boots

Sturdy over-the-ankle boots with non-slip soles offer more protection and allow you to plant your foot properly on footrest.

5. Clothing

Wear long sleeves and long pants to protect arms and legs. Pants with knee protection and jackets with shoulder protection offer better protection for riders.

Avoid Accidents

Avoid Rollovers and Tipovers

Side-by-side vehicles handle differently from other vehicles. Side-by-side vehicles are designed to handle off-road terrain (for example, their wheel base and track width, ground clearance, suspension, drivetrain, tires, etc.), and, as a result, can overturn in situations where vehicles designed for use primarily on paved or smooth terrain may not.

A rollover or other accident can occur quickly during abrupt maneuvers such as sharp turns or hard acceleration or deceleration when turning, or when driving on hills or over obstacles. Abrupt maneuvers or aggressive driving can cause rollovers or loss of control even in flat open areas. If the vehicle rolls over, any part of your body (such as arms, legs, or head) outside of the cab can be crushed and trapped by the cage or other parts of the vehicle. You can also be injured by impact with the ground, cab or other objects.

To reduce the risk of rollovers:

- Use care when turning.
 - Adjust steering inputs accordingly to your speed and environment.
 - Slow down before entering a turn. Avoid hard braking during a turn.
 - Avoid sudden or hard acceleration when turning, even from a stop or low speed.
- Never attempt donuts, skids, slides, fishtails, jumps, or other stunts. If vehicle starts to skid or slide, steer in the direction of the skid or slide. Never slam the brakes and lock the

SAFETY INFORMATION

wheels.

- This vehicle is built primarily for OFF-ROAD purposes. Riding on paved surfaces may seriously affect vehicle handling and control - if you must drive on paved surfaces for a short distance, reduce speed and avoid abrupt inputs to steering wheel, accelerator and brake pedals.

This vehicle can roll over sideways or tip over forward or backwards on slopes or uneven terrain.

- Avoid side hilling (driving along the slope rather than up or down a hill). When possible, drive straight up and down inclines rather than across them. If you must side hill, use extreme caution and avoid slippery surfaces, objects, or depressions. If you feel the vehicle start to rollover or slide sideways, steer downhill if possible.
- Avoid steep hills and follow procedures in this manual for climbing and descending hills.
- Sudden changes in terrain such as holes, depressions, banks, softer or harder ground or

other irregularities may cause the vehicle to tip or become unstable. Observe the terrain ahead and slow down in areas of uneven terrain.

This vehicle will handle differently when carrying or pulling a load.

- Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer.
- Avoid hills and rough terrain.
- Allow more distance to stop.

Be prepared in case of rollover

- Latch side doors and fasten seat belt to help you avoid sticking out arms or legs.
- Never grab the cage while riding. Hands can be crushed between the cage and the ground in a rollover. Keep hands on the steering wheel or handholds.
- Never try to stop a rollover using your arms or legs. If you think that the vehicle may tip or roll, the driver should keep both hands on the steering wheel and the left foot firmly planted on the floor. The passenger should keep both hands on the handholds and both

SAFETY INFORMATION

feet firmly planted on the floor.

Avoid Collisions

At higher speeds, there is an increased risk of losing control, particularly in challenging off-road conditions, and the risk of injury in a collision is greater. Never operate at excessive speeds. Always go at a speed that is proper for the terrain, visibility, and operating conditions, and your experience. This vehicle does not have the same kind of protection for collisions as a car; for example, there are no air bags, the cab is not fully enclosed, and it is not designed for collisions with other vehicles. Therefore, it is particularly important to fasten seat belts and latch side doors and wear proper riding gear.

Riding Your Vehicle

Practice Exercises

Before you go out for a ride, it is very important to familiarize yourself with the handling of your vehicle by practicing in a controlled environment. Find a suitable area to practice and perform the following exercises. It should

be at least 45 m by 45 m, free of obstacles like trees and rocks.

Turning Exercises

Turning is one of the most frequent causes of accidents. It is easier for the vehicle to lose traction or rollover if you turn too sharply, or go too fast. Slow down when you approach a turn.

- First learn how to perform slight right turns at very low speeds. Release the throttle before turning and slowly reapply the throttle when turning.
- Repeat turning exercise but this time maintain the throttle at the same level while turning.
- Finally, repeat turning exercise while accelerating slowly.
- Practice exercises turning on the other side.

Note how your vehicle reacts in these different exercises. We recommend releasing the throttle before entering a turn to help initiate directional change. You will feel the lateral force increasing with the speed and with your steering input. The lateral force should be maintained as

SAFETY INFORMATION

low as possible to make sure it does not cause the vehicle to roll over.

U turn Exercises

Practice doing U turns.

- Accelerate slowly and while remaining at low speed, gradually turn the steering wheel to the right until you have completed the U turn. Repeat U turn exercise with different steering inputs and always at a very low speed.

- Repeat U turn exercise on the other side.

As mentioned before in this manual, do not ride on paved surfaces as the vehicle behavior will not be the same, increasing the risk of roll-over.

Braking Exercises

Practice braking to get familiar with the brake response.

- Do it at low speed first, then increase the speed.
- Practice braking in straight line at different speeds and different braking force.

- Practice emergency braking; optimal braking is obtained in straight line, with high force applied, without locking the wheels.

Remember, braking distance depends on vehicle speed, load and the type of surface. Also, the tires and brakes conditions play a major role.

Reverse Exercises

The next step involves using the reverse.

- Install 1 cone marker on both sides of the vehicle beside each rear wheel. Move the vehicle forward until you can see the cone markers, then stop the vehicle. Acknowledge the distance required to see obstacles behind you.
- Learn how the vehicle handles itself in reverse and reacts with steering inputs.
- Always perform this reverse exercise at slow speeds.
- Become familiar with the usage of the override function. Do not steer while using the override as it increases the risks of rollover

SAFETY INFORMATION

Emergency Engine Stopping Exercise

Learn how to stop your engine quickly in an emergency situation.

- While running at low speed, simply turn the ignition key to the off position.

This is to familiarize you with the vehicle's reaction when the engine is turned off while driving and to develop this reflex.

Off-Road Operation

The very nature of off-road operation is dangerous. Any terrain, which has not been specially prepared to carry vehicles, presents an inherent danger where terrain substance, shape and steepness are unpredictable. The terrain itself presents a continual element of danger, which must be knowingly accepted by anyone venturing over it.

An operator who takes a vehicle off-road should always exercise the utmost care in selecting the safest path and keeping close watch on the terrain ahead of him. The vehicle should never be operated by anyone who is not completely familiar with the driving instruc-

tions applicable to the vehicle, nor should it be operated on steep or treacherous terrain.

General Riding Techniques

General Driving Tips

Care, caution, experience and driving skill are the best precautions against the hazards of vehicle operation. Whenever there is the slightest doubt that the vehicle can safely negotiate an obstacle or a particular piece of terrain, always choose an alternate route. In off-road operation, power and traction, not speed, are important. Never drive faster than visibility and your own ability to select a safe route permit. Never operate the vehicle if the controls do not function normally. See your dealer. Operating in Reverse

When operating in reverse, check that the path behind the vehicle is free of people or obstacles. Pay attention to blind spots. When it is safe to proceed in reverse, go slowly and avoid sharp turns.

SAFETY INFORMATION

WARNING

Steering inputs in reverse operation increase the risk of rollover.

NOTE: In reverse operation, the engine RPM is limited thus limiting the vehicle reverse speed.

WARNING

When driving downhill in reverse, gravity can increase the vehicle speed above the set limited reverse speed.

Crossing Roads

If you have to cross a road, ensure to have complete visibility on both sides for incoming traffic and decide on exit point on other side of road. Drive in a straight line toward that point. Do not make sharp direction changes or abrupt accelerations as it may result in a rollover situation. Do not travel on sidewalks or bicycle trails as they are designated specifically for those uses.

Riding on Paved Surfaces

Avoid paved surfaces. This vehicle is not designed to operate on paved surfaces and is more likely to roll over. If you must drive on pavement, turn gradually, go slowly, and avoid abrupt acceleration and braking.

Shallow Water Crossing

Water can be a unique hazard. If it is too deep the vehicle may “float” and topple. Check the water depth and current before you attempt to cross any water. Water depth should not exceed 30 cm (12 inches) for vehicle to safely cross the obstacle. Beware of slippery surfaces such as rocks, grass, logs, etc., both in the water and on its banks. A loss of traction may occur. Do not attempt to enter the water at high speed.

Water will affect the braking ability of your vehicle. Make sure you dry the brakes by applying them several times after the vehicle leaves the water.

Riding on Snow or Ice

When performing pre-ride inspection, pay spe-

SAFETY INFORMATION

cial attention to locations on the vehicle where snow and/or ice accumulations may obstruct visibility of the tail lamp, clog ventilation openings, block the radiator and fan, and interfere with the movement of controls. Before starting with your vehicle, check the steering, throttle and brake pedals for interference free operation.

Whenever this vehicle is ridden on a snow covered drive path, the tire grip is generally reduced causing the vehicle to react differently to control inputs from the operator.

Riding on Sand

Sand and riding on sand dunes is another unique experience but there are some basic precautions that should be observed. Wet, deep or fine sand may create a loss of traction and cause the vehicle to slide, drop off or become "bogged" down. If this occurs look for a firmer base. Again, the best advice is to slow down and be watchful of the conditions.

When riding in sand dunes it is advisable to equip the vehicle with an antenna type safety flag. This will help make your location more

visible to others over the next sand dune. Proceed carefully should you see another safety flag ahead.

Riding on Gravel, Loose Stones or Other Slippery Surfaces

Riding on loose stones or gravel is very similar to riding on ice. They will affect the steering of vehicle, possibly causing it to slide and tip over especially at high speeds. In addition, braking distance may be affected. Remember that "gunning" the throttle or sliding may cause loose stones to be ejected rearwards and could hit other people.

Crossing Obstacles

Obstacles on the "trail" should be traversed with caution. This includes rocks, fallen trees, and depressions. You should avoid them whenever possible. Remember that some obstacles are too large or dangerous to cross and should be avoided. As a guideline, never attempt to cross an obstacle higher than the ground clearance of the vehicle. Small rocks or small fallen trees may be safely crossed - approach obstacle at low speed and as much as possible at

SAFETY INFORMATION

a right angle. Adjust speed without losing momentum and do not accelerate abruptly. Passenger must grasp handholds firmly and brace feet on the floor.

Hill Driving Conditions

When driving on hills or slopes, two things are highly important: be prepared for slippery surfaces or terrain variations and obstacles and brace yourself properly inside vehicle. If you climb or descend a hill that is too slippery or has too loose a surface, you can lose control. If you go over the top of a hill at high speed, you may not have time to prepare for the terrain on the other side. Avoid parking on a slope. Always put the shift lever in PARK when stopped or parked, especially on an incline, to avoid rolling. If you must park on a steep incline, block the wheels using rocks or bricks.

Uphill Driving

Use the low range (L) for uphill driving. Due to its configuration, this vehicle has very good traction even while climbing, so much so that tip over is possible before traction is lost. For

example, it is common to encounter terrain situations where the top of the hill has eroded to a point that the hill peak rises very sharply. This vehicle is not designed to negotiate such a condition. Take an alternate route.

If you feel that the slope is getting too steep to climb, apply brakes to immobilize vehicle. Put shift lever in reverse (R), and back down the hill, barely releasing brakes to remain at low speed.

Do not attempt to turn around. Never coast down hill while vehicle is in neutral. Do not perform hard braking as it increases the risk of tipover.

Downhill Driving

This vehicle can climb steeper slopes than it can descend safely. Therefore, it is essential to assure that a safe route exists to descend a slope before you climb it. Decelerating while negotiating a slippery downhill slope could “toboggan” the vehicle, causing it to slide. Maintain steady speed and/or accelerate slightly to regain control. Never slam brakes and lock the wheels.

SAFETY INFORMATION

Side Hilling

 WARNING

Improper side hilling or turning on hills could cause the vehicle to be out of control or roll over and may result in serious injury or death.

Whenever possible, side hilling (driving across a slope rather than up or down it) should be avoided. If necessary, do so with extreme caution. Side hilling on steep inclines could result in rollover. Avoid all objects or depressions that will intensify the raising of one side of the vehicle higher than the other, thus causing rollover. If you feel the vehicle start to rollover or slide sideways, steer downhill if possible.

Recreational, Group and Distance Riding

Stay away from areas designated for other types of off road use. This includes snowmobile trails, equestrian trails, cross country ski trails, mountain bike trails, etc.

Join a local side-by-side vehicle club. It will provide you with a map and advice or inform you where you can ride. Never ride under the influence of alcohol or drugs, or tired or ill.

Always keep a safe distance from other riders.

Environment

One of the benefits of this vehicle is that it can take you off the beaten path away from most communities. However, you should always respect nature and the rights of others to enjoy it.

Chasing wildlife is illegal in many areas. Wildlife can die of exhaustion after being chased by a motorized vehicle.

Observe the rule... “what you take in, carry out”: Do not litter.

SAFETY INFORMATION

Moving Loads and Doing Work

Working with your Vehicle

Your vehicle can help you perform a number of different light tasks ranging from snow removal to pulling wood or carrying cargo. The equipped accessories can change the vehicle handling. To prevent possible injury, follow the instructions and warnings in this manual and on the vehicle.

Always respect the load limits of the vehicle. Overloading the vehicle can overstress the components and cause failure.

Carrying Loads

The load limit of the vehicle, including the weight of operator, passenger, cargo, accessories and trailer tongue weight: 350 kg (771 lb).

SAFETY INFORMATION

Vehicle Settings When Carrying Load

When the total load exceeds 350 kg, including weight of operator, passenger, cargo, accessories and trailer tongue weight, inflate the tires to maximum pressure 84 kPa (12 psi) Front, 125 kPa (18 psi) Rear.

NOTE: When carrying heavy loads in cargo box, readjust suspension accordingly.

NOTE: When carrying heavy loads in cargo box or pulling a trailer, operate with the shift lever in L (low range).

Loading the Cargo Box

Cargo box load capacity: 150 kg (330 lb)

Operating While Carrying a Load

Reduce your speed when carrying cargo and turn gradually. Avoid hills and rough terrain. Allow more distance for braking.

⚠ WARNING

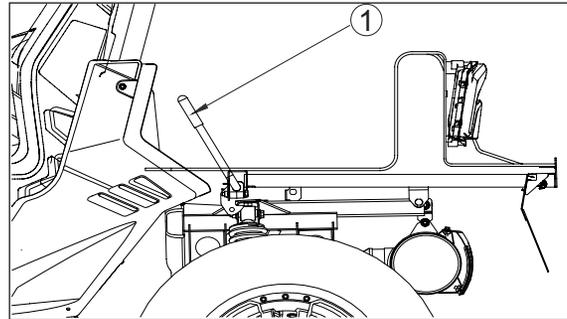
Never operate when fully loaded on hills steeper than 12 degrees.

Tilting the Cargo Box

The cargo box can be tilted to ease unloading. Use release handles on either side of cargo box.

⚠ WARNING

- Always ensure no one is standing behind the cargo box before you actuate the release handle.
- The load weight may affect the operation of the cargo box tilting feature (tilting or lowering).



1. LH release handle

SAFETY INFORMATION

To lower the cargo box, simply push on the cargo box.

WARNING

- Keep yourself and others clear of the cargo box and vehicle frame junction when lowering cargo box.
- Ensure to securely latch the cargo box and the tailgates before riding.

Hauling a Load

Never pull a load by attaching it to the cage; this can cause the vehicle to tip over. Use only the trailer hitch or winch (if installed) to pull a load.

When pulling loads with a chain or cable, ensure that there is no slack before starting and maintain tension while pulling.

When hauling a load, respect the maximum hauling capacity.

WARNING

Slack can cause the chain or cable to break and snap back.

When pulling another vehicle, be sure that someone is controlling the pulled vehicle. They must brake and steer to prevent the vehicle from going out of control. Before pulling loads with a winch, refer to the winch Owner's Manual. Reduce your speed when hauling a load and turn gradually. Avoid hills and rough terrain. Never attempt steep hills. Allow more distance for braking, especially on inclined surfaces. Be careful not to skid or slide.

Pulling a Trailer

If a trailer is used behind the vehicle make sure that its hitch is compatible with the one on the vehicle. Make sure the trailer is horizontal with the vehicle. Use security chains or cables to secure the trailer with the vehicle.

Improperly loading a trailer may cause loss of control. Respect the recommended maximum hauling capacity and maximum tongue load. Make sure there is at least some weight on the tongue.

Always make sure load is evenly distributed and safely secured on the trailer; an evenly bal-

SAFETY INFORMATION

anced trailer is easier to control.

Always put the shift lever to L (low range) for hauling a trailer .

When stopped or parked, block the vehicle and trailer wheels from possible movement.

Use caution when disconnecting a loaded trailer; it or its load may topple on you or others.

When hauling a trailer, respect the following maximum hauling capacity.

MAXIMUM HAULING CAPACITY			
Type of Attachment	Trailer Load Allowed	Tongue Weight Allowed	Note
50 mm X 50 mm hitch ball support	150 kg (330 lb)	45 kg (99 lb)	Includes trailer and trailer load.

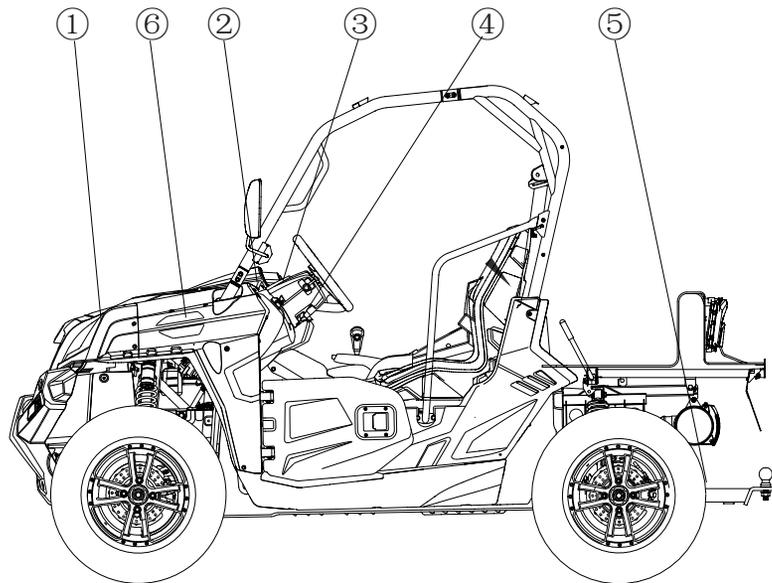
Warning Decals and Location

Safety Decals

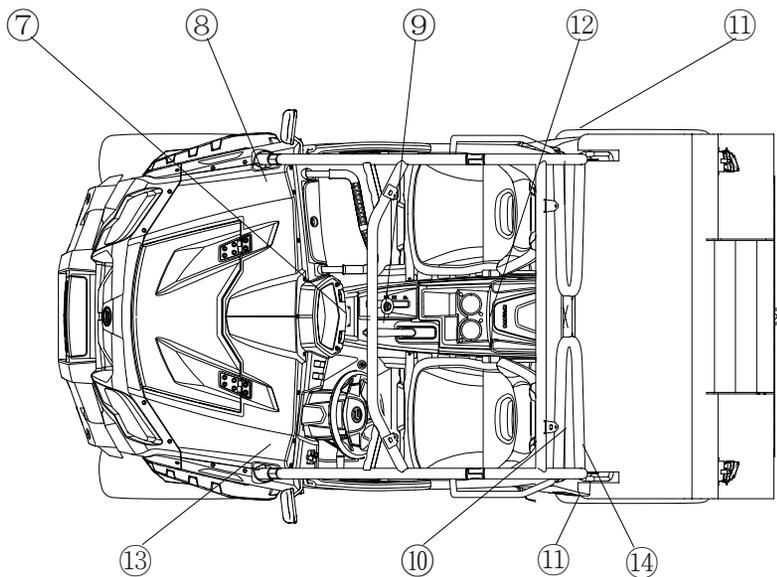
Warning decals have been placed on the vehicle for your protection. Read and follow the instructions of the decals on the vehicle carefully. If any of the decals depicted in this manual differ from the decals on your vehicle, always read and follow the instructions of the decals *on the vehicle*.

If any decal becomes illegible or comes off, contact your dealer for the replacement.

SAFETY INFORMATION



SAFETY INFORMATION



SAFETY INFORMATION

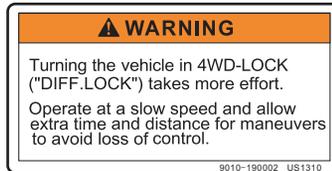
①

main relay	5UR2-19004-ELI7Z
4x2 WD relay	
fan relay	
4x4 WD relay	
fuel pump relay	
headlamp (low beam) relay	
start ass relay 1	
headlamp (high beam) relay	

②



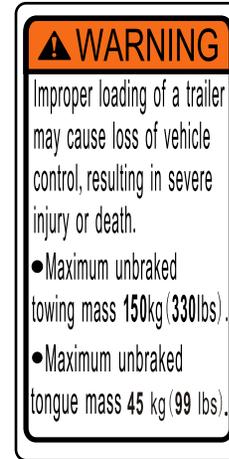
③



④



⑤



⑥



SAFETY INFORMATION

7

⚠ **WARNING**

ALWAYS

- wear a seat belt when riding in the vehicle.
- keep your hands and feet inside the vehicle at all times- watch for branches, brush, or other hazards that could enter the vehicle.
- drive straight up and down inclines- driving across the side of an incline increases the risk of overturn.



ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR

NEVER

- operate through water deeper than 13" (33 cm) or fast flowing water - if you must cross shallow, slow moving water, choose your path carefully to avoid sharp drop-offs, large rocks, or slippery surfaces that could cause the vehicle to overturn.
- make sharp, high- speed turns- the vehicle could roll over or go out of control.



NEVER USE WITH DRUGS OR ALCOHOL

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

9

⚠ **WARNING**

Improper tire pressure or overloading can cause loss of control. Loss of control can result in severe injury or death.

- Cold tire pressure:
Front: **11.6 psi (80 kPa)**
Rear: **14 psi (100 kPa)**

8

⚠ **WARNING**

Any part of your body (arms, legs, or head) outside of the vehicle can be crushed by the cage/frame.



If you think or feel that the vehicle may tip or roll, brace your feet on the floor boards, and keep your hands on the handholds.

Do not try to stop a vehicle tipover using your arm or leg.

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

Do not rest hands on door or hip restraint bar. To avoid injury, keep hands completely inside the vehicle by holding the steering wheel or handholds.

7030-190107 1211

10

⚠ **WARNING**

Air Filter Inlet Grill. DO NOT COVER!



11

⚠ **WARNING**



- Keep hands, body, other persons away when closing bed.
- Do not operate the vehicle with bed up.

SAFETY INFORMATION

12

⚠ WARNING

Improper use can result in Severe INJURY or DEATH.
This utility vehicle will handle and maneuver differently from an ordinary passenger car or other vehicle.

- Vehicle capacity: 1 operator and 1 passenger. Passenger must be able to reach and hold the handgrip inside enclosure.
- This vehicle is recommended only for operators 16 and older with a valid motor vehicle license.
- Gross Vehicle Weight Rating: 2149 lb(975 kg) maximum including operator, passenger, accessories, and cargo.
- Passenger and cargo can affect vehicle handling.

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

13

⚠ WARNING

Any part of your body (arms, legs, or head) outside of the vehicle can be crushed by the cage/frame.



If you think or feel that the vehicle may tip or roll, brace your feet on the floor boards, and keep your hands on the steering wheel.

Do not try to stop a vehicle tipover using your arm or leg.

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

Do not rest hands on door or hip restraint bar. To avoid injury, keep hands completely inside the vehicle by holding the steering wheel or handholds.

7030-190106 1211

14

⚠ WARNING

Severe INJURY or DEATH can result if you ignore the following:

- Maximum Load in Cargo Bed: 150kg (330lbs).
- Never carry passengers in cargo bed.
- Cargo can affect handling and stability. Read Owner's Manual before loading or towing.
- When loading with cargo or towing a trailer, reduce speed and allow more room to stop. Avoid hills and rough terrain.
- Be sure cargo is secured - a loose load could change handling unexpectedly.
- Keep weight in the cargo bed centered, and as low and far forward as possible. Top - heavy loads increase the risk of overturn.



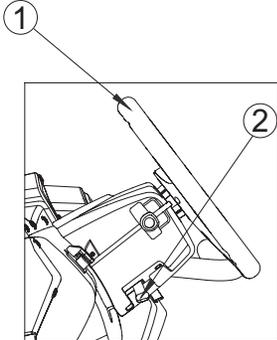
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VEHICLE INFORMATION

Primary Controls

1) Steering Wheel

The steering wheel is located in front of the operator's seat.



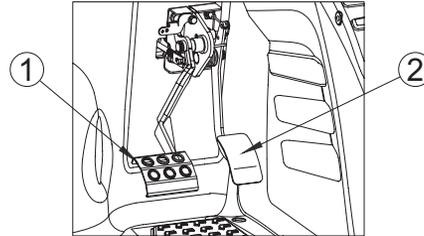
1. *Steering wheel*
2. *Tilt lever*

It can be adjusted to fit the operator's height.

2) Throttle pedal

The throttle pedal is located on the right side of the brake pedal.

The throttle pedal controls the engine speed.



1. *Brake pedal*
2. *Throttle pedal*

To increase or maintain vehicle speed, press on the throttle pedal with your right foot.

To decrease vehicle speed, release the throttle pedal.

The throttle pedal is spring loaded and should return to rest position (idle) when not pressed.

3) Brake Pedal

The brake pedal is located on the left side of the throttle pedal.

VEHICLE INFORMATION

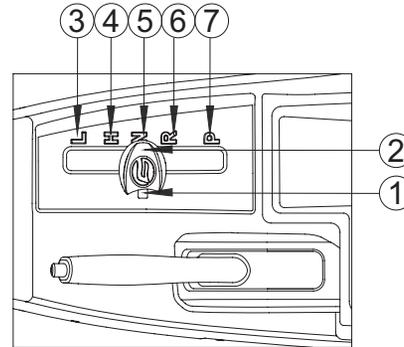
4) Shift Lever

The shift lever is located on the right of the driver's seat.

The shift lever is used to change the gearbox position.

CAUTION

The vehicle must be stopped with brakes applied prior to shifting in/to any gear. This gearbox is not designed to shift while vehicle is moving.



1. Shift button
2. Shift lever
3. L range
4. H range
5. Neutral
6. Reverse
7. Park

Shift Button

Press shift button before shifting the gear.

L Range

This position selects the low speed range of the gearbox. It allows the vehicle to move slowly with maximum torque at the wheels.

VEHICLE INFORMATION

CAUTION

Use the low speed range to pull a trailer, carry heavy cargo, go over obstacles or drive uphill and downhill.

High Range

This position selects the high speed range of the gearbox. It is the normal driving speed range. It allows the vehicle to reach its maximum speed.

Neutral

The neutral position disengages the gearbox.

Reverse

The reverse position allows the vehicle to go backwards.

NOTE: In reverse operation, the engine's RPM is limited, thus limiting the vehicle reverse speed under 20 km/h (12.4 ml/h).

 WARNING
When driving downhill in reverse, gravity can increase the vehicle speed above the set limited reverse speed.

Park

The park position locks the gearbox to help prevent vehicle movement.

 WARNING
Always use the PARK (P) position when the vehicle is not in operation. The vehicle can roll if the shift lever is not set to P (PARK).

VEHICLE INFORMATION

Secondary Controls

1) Ignition Switch

The ignition switch is located on the bottom right of the steering wheel.

Ignition switch has 4 positions.

Ignition key can be removed in "⊗" position.



	Steering is locked to prevent theft.
	Engine is shut down. The electrical except winch motor's and DC outlet's is disabled.
	The electrical system of the vehicle is activated.
	Turn ignition key to "⌘" to start the engine. Ignition key returns to "○" when released.

WARNING

Do not leave the ignition key inserted when the operator is away. An unauthorized use of the vehicle by others may result in serious injury or death. Always remember to remove the ignition key when the vehicle is not in use.

2) Multifunction Lever

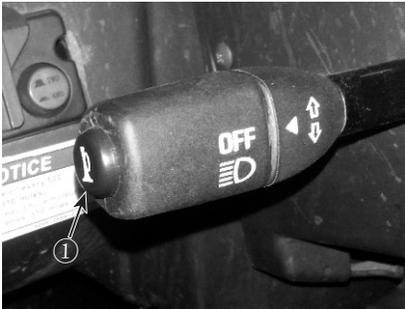
Multifunction Lever includes: horn switch, turn signal switch, light switch.

VEHICLE INFORMATION



1. Multifunction lever

Horn Switch

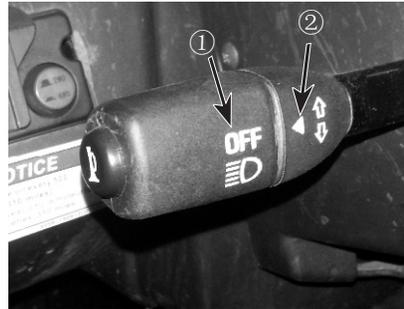


1. Horn switch

The horn can be activated by pushing the end of the multifunction lever toward the steering wheel.

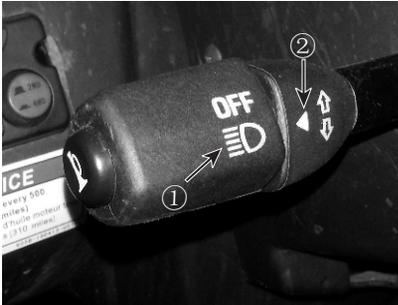
Light Switch

Light switch consists of: OFF switch, position light switch, high beam switch, low beam switch.



1. OFF
2. Arrow

VEHICLE INFORMATION



1. Position light indicator

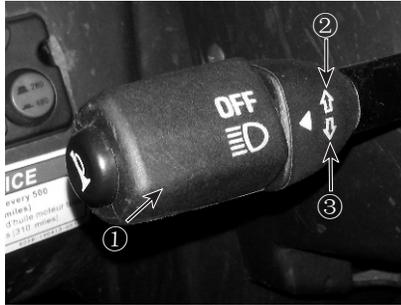
2. Arrow

OFF	When the switch in the position. The dipped headlight, dashboard light front and rear position light should be on.
	When the switch in the position. The beam light, the dipped headlight, dashboard light, front and rear position light should be on.

VEHICLE INFORMATION

High beam is selected when light switch is in this position.

Turn Signal Switch



1. Multifunction lever
2. RH turn signal indicator
3. LH turn signal indicator

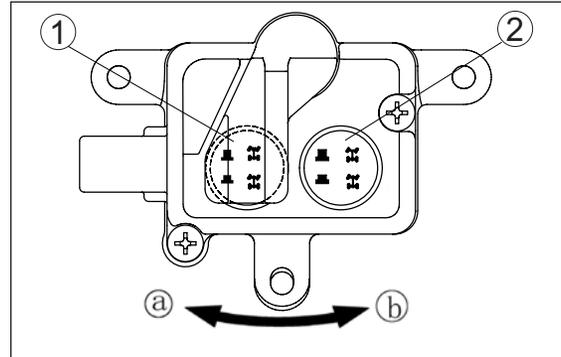
To activate the LH turn signals, push down the multifunction lever.

To activate the RH turn signals, push up the multifunction lever.

Reposition the multifunction lever in the middle position to stop turn signal.

NOTE: Ignition key must be turned to “○” position before operating head lights.

3) 2WD/4WD Switch



This switch selects 2 Wheel Drive or 4 Wheel Drive mode when the vehicle is stopped and the engine is running.

When drivetrain is in 4WD, the indicator “” lights up in dashboard.

Ensure to push operation lever in position “a” prior to 2WD/4WD selection.

VEHICLE INFORMATION

4) 4WD/LOCK Switch

This switch selects 4 Wheel Drive or 4 Wheel Drive Lock mode when the vehicle is stopped and the engine is running.

4WD-lock indicator ^{"On"}_{Off} when 4WD/Lock switch is in "LOCK" position.

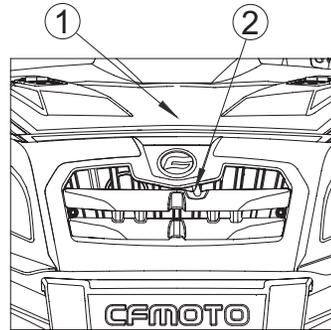
CAUTION

The vehicle must be stopped to engage or disengage both 2WD/4WD and 4WD/LOCK switch. Mechanical damage may occur if the switch is engaged or disengaged while driving.

NOTE:

- When 4WD/LOCK is set to LOCK, the indicator blinks constantly until 4WD LOCK is engaged.
- When 4WD/LOCK indicator is flashing, left or right turn may ease the engagement.
- Engine RPM is limited in 4WD LOCK mode.
- Speed is limited under 35 km/h (22 mile/h) in 4WD LOCK mode. Depress override switch to override the restriction.

5) Front Hood



1. Front hood

2. Release lever

Front hood release lever is under the front grille. Push the release lever clockwise to open the front hood.

6) Winch switch

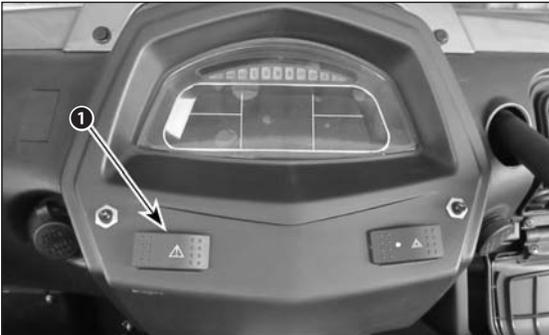
This vehicle comes with winch cable control and remote control which are located in the glove compartment.

VEHICLE INFORMATION



1. Winch remote control

7) Override Switch



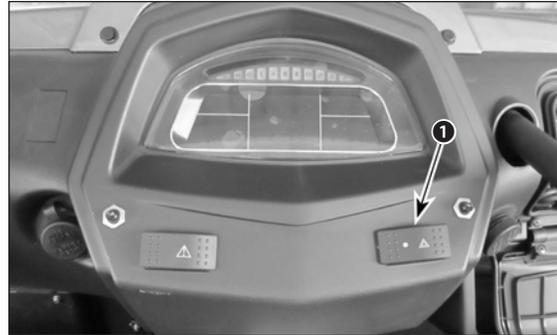
1. Override switch

The override switch main function is to bypass the engine speed limiter in 4WD LOCK operation by allowing maximum engine torque.

To disengage the override function, simply release the override switch.

NOTE: When using the override function, the override indicator will light up to confirm that the function is activated.

8) Hazard Switch



1. Hazard switch

When using hazard switch function, front and rear turn signal lights will go on.

VEHICLE INFORMATION

Besides, hazard switch indicator light in dashboard will light up.

9) 12V DC Outlets



1. 12V DC outlets

This vehicle has 2 DC outlets.

Output voltage: 12 V

Maximum output current: 10 A

10) Clock Button

Clock button is located under instrument cluster.



1. SET button

2. Clock button

To reset the clock:

1. Press and release clock button once to advance the setting by one hour.
2. Press and hold clock button to set the minutes.

11) SET Button

Pressing the SET button will scroll through the functions of the secondary digital display, including engine RPM, Metric/Imperial units, trip, engine oil reminder setting, etc.

VEHICLE INFORMATION

1. Metric/Imperial Units

To switch between metric and imperial units, press the "SET" button once in ODO mode.

2. Trip Meter Mode

To switch to trip meter mode, press and release "SET" button in ODO mode. To clear trip meter, press and hold "SET" button until the total changes to 0.

3. Tachometer Mode

To switch to tachometer mode, press "SET" button two times.

4. Odometer Mode

To toggle to ODO mode, press and release "SET" button two times in TRIP mode.

5. Oil Change Reminder Setting

To shut off oil change reminder function:

1. Turn off the ignition switch.
2. Press and hold both SET button and clock button.
3. Turn on the ignition switch. Oil change reminder function will be shut off when instrument cluster self diagnosis is finished.

Multifunction Meter

General Description

Coolant temperature gauge

When coolant temperature gauge is in green zone or at the "C" end, it indicates the coolant temperature is normal.

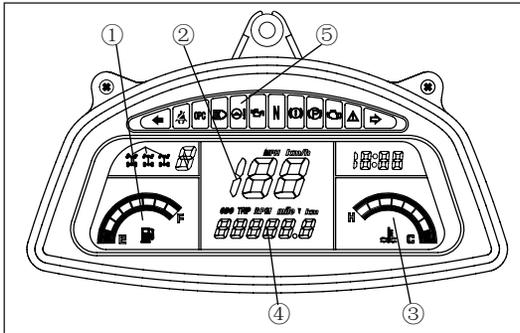
When coolant temperature gauge is in red zone or at the "H" end, it indicates the coolant temperature is excessively high. Engine should be stopped immediately in this case.

If the coolant temperature is frequently excessively high, ensure to check the coolant level or consult your dealer.

CAUTION:

- If the vehicle is overloaded, it may result in engine overheat when driving. Reduce the loads in this case.
- Ensure the coolant temperature is in white zone or at "C" end after restarting the engine. If coolant temperature in red zone or at "H" end, continual use of the vehicle may result in engine damage.

VEHICLE INFORMATION



1. Fuel gauge
2. Speedometer
3. Coolant temperature gauge
4. Odometer
5. EPS indicator

Fuel gauge

Indicates the fuel level in the fuel tank. "F" indicates there the fuel level is 27 L. When fuel gauge is in red zone, the residual fuel in the fuel tank is 3.5 L. Refuel in this case.

Speedometer

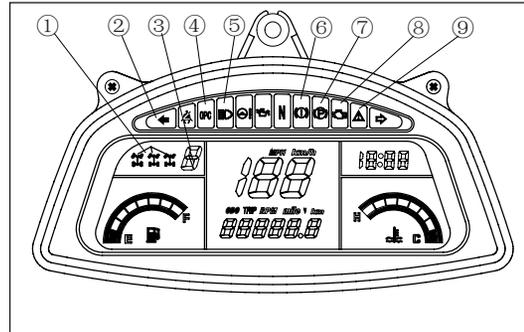
Indicates the speed of the vehicle. Press mode button to switch to MPH.

Odometer

Indicates the total milage the vehicle has traveled. Press mode button to toggle to TRIP meter, or tachometer, or imperial units mode.

4WD indicator

: when 2WD/4WD switch is set to 4WD, this indicator will be on.



- | | |
|------------------------------|----------------------------|
| 1. 4WD indicator | 6. Brake failure indicator |
| 2. LH turn signal indicator | 7. Park indicator |
| 3. gear indicators | 8. EFI indicator |
| 4. Operator presence control | 9. Override indicator |
| 5. High beam indicator | |

VEHICLE INFORMATION

: when 4WD/LOCK switch is set to LOCK, this indicator will be on.

Due to the synchronizer setting in the front differential, 4WD indicator may light up after the vehicle is moving.

LH turn signal indicator

This indicator will flash when left turn signals are activated.

L range indicator

This indicator lights up when gearbox is in L range.

H range indicator

This indicator lights up when gearbox is in L range.

N indicator

This indicator lights up when gearbox is in neutral.

R indicator

This indicator lights up when gearbox is in reverse.

Operator presence control

Vehicle will alarm immediately once the driver leaves the seat when the engine is running.

High beam indicator

This indicator lights up when high beam is selected.

Brake failure indicator

This indicator lights up when parking is engaged.

Park indicator

This indicator lights up when parking is engaged.

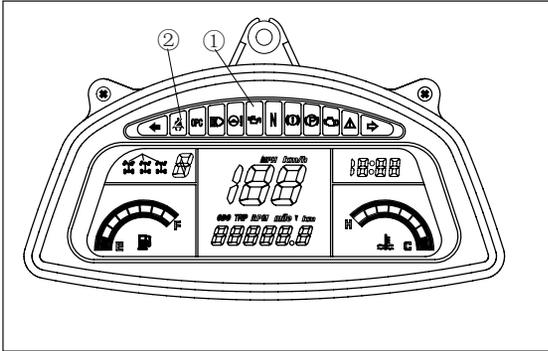
EFI indicator

This indicator light comes on when troubles occur in EFI system.

Override indicator

This indicator lights up when override switch is depressed.

VEHICLE INFORMATION



1. Oil pressure warning indicator light
2. Seat belt indicator light

Oil pressure warning indicator

If this indicator lights up when engine revs over 1000 rpm, it indicates engine oil is not enough or oil pressure is too low. Add oil if oil level is under the lower limit. If oil pressure warning indicator is still on when oil level is correct, it indicates oil pressure sensor or instrument cluster or lubrication system has troubles. Please call your dealer in this case.

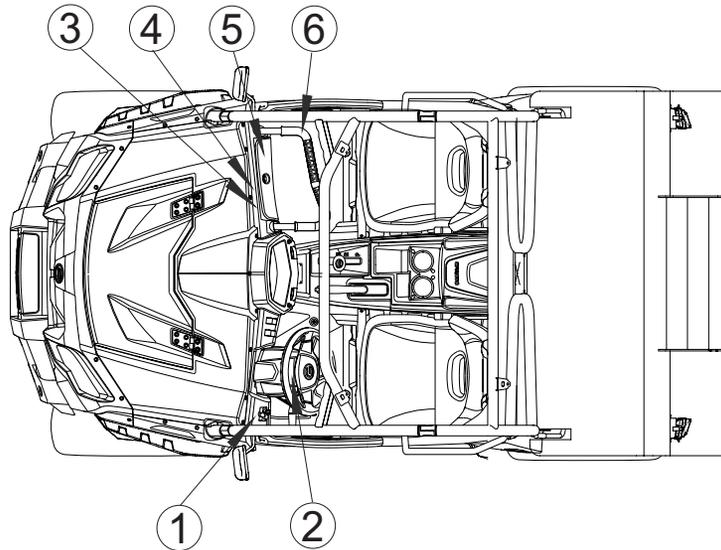
Seat belt indicator

This indicator lights up when seat belt is not fastened during driving.

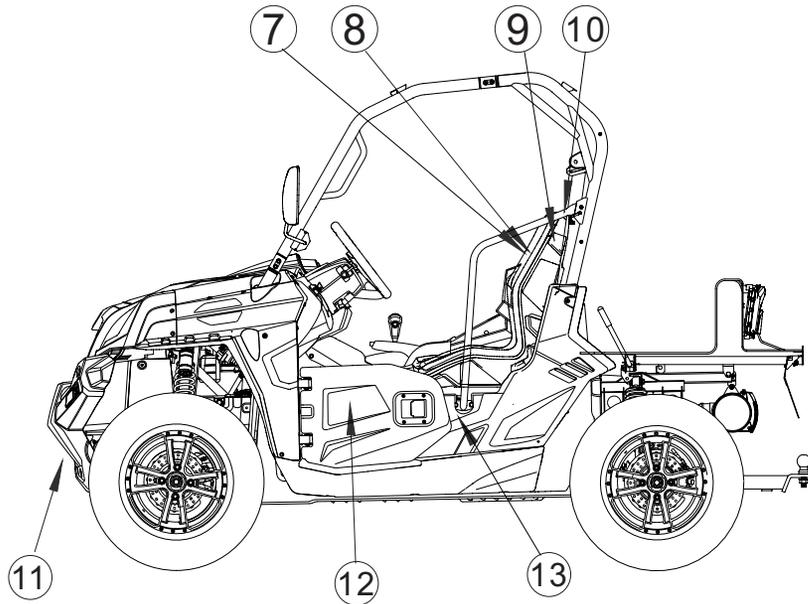
NOTE: if indicator light goes on or speedometer does not work, please have your dealer check the circuit of speed sensor.

VEHICLE INFORMATION

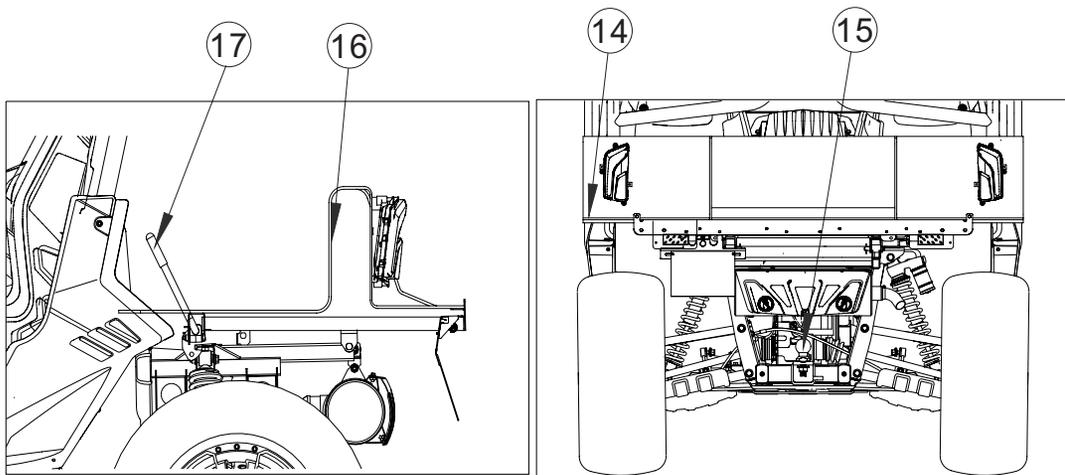
Equipment



VEHICLE INFORMATION



VEHICLE INFORMATION



VEHICLE INFORMATION

1) Footrests

The vehicle is equipped with driver and passenger footrests to allow firmly planting feet on vehicle floor, which helps to maintain proper body position while riding.

The footrests help minimize the risk of leg or foot injury.

Always wear appropriate footwear.

2) Tilt Steering

The steering wheel height is adjustable.

Adjust the steering wheel height to face your chest, not your head.

To adjust steering wheel height:

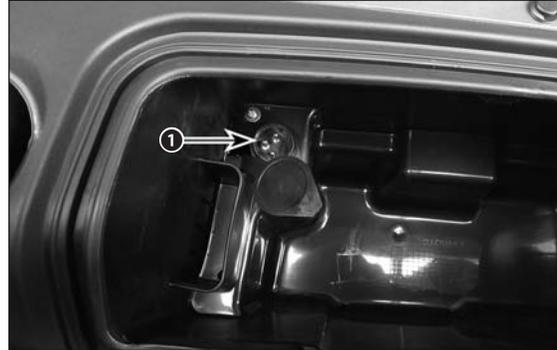
- Unlock steering by pulling the tilt lever toward you.
- Move steering wheel to the desired position.
- Release tilt lever to lock steering wheel in position.

3) Winch Cable Control Connector

This vehicle comes with a winch cable control, which is designated to use when the winch re-

mote control is defective.

The cable control connector is located inside the glove compartment.



1. Winch cable control connector

4) Tool Kit

A tool kit with basic tools is provided. It is located in the glove box.

5) Glove Compartment

The vehicle is equipped with a closed glove compartment made to carry light objects. The capacity is 4.8 kg.

6) Passenger Handholds

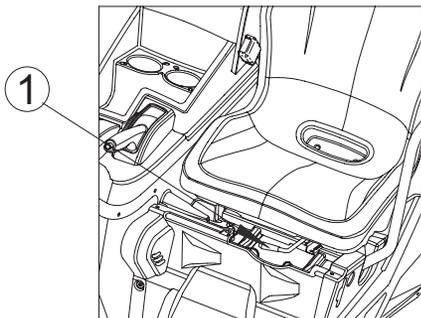
VEHICLE INFORMATION

The passenger must hold both handholds securely during driving. Any part of the body should not be outside of the cab to prevent possible injury.

⚠ WARNING

Never use any part of vehicle cage as handholds. Hands can be struck by objects outside the cockpit or crushed in a roll-over.

7) Driver Seat



1. Driver seat adjust handle

The driver's seat offers fore and aft adjust-

ments.

To adjust seat, move the seat lever to unlock the seat. Release the lever to lock the seat into desired position.

8) Passenger Seat

The passenger seat is not adjustable.

9) Seat Belts

This vehicle is equipped with 3 points seat belts to help protect driver and passenger in the event of collisions, rollovers or tipovers to help keep passengers in the cab.

Seat belt indicator light will flash if seat belt is not fastened during driving.

⚠ WARNING

Wear seat belts properly at all times. Seat belts reduce the risk of injuries in a crash and help keep body parts inside the cockpit in a rollover or any accidents.

10) Shoulder Guards

The vehicle is equipped with shoulder guards to help restrain the entire body of driver and passenger inside vehicle.

VEHICLE INFORMATION

11) Winch

The winch can be actuated inside the vehicle using the winch cable control and the remote control.

Refer to your winch manual for further information.

12) Side Doors

A side door is provided on each side of the cab to help arms, legs or shoulders stay inside the vehicle, thus reducing the risk of injuries.

13) Fuel Cap

The fuel cap is located on the right hand side of the vehicle behind the passenger seat.

14) Anchoring Hooks ----Optional

To provide anchoring point in order to secure cargo inside the cargo box, 4 anchoring hooks are located inside the cargo area.

15) Hitch Support

The vehicle comes equipped with a 51 mm x 51 mm (2 in x 2 in) box size standard hitch support.

For the proper usage of the hitch support, refer to MOVING LOADS AND DOING WORK in the SAFETY INFORMATION section.

16) Cargo Box

Refer to the safety decals on cargo box for loads information.

17) Cargo Box Tilt Release Handles

The latching mechanism of the cargo box can be actuated from either side of the vehicle through a release handle.

Refer to safety decals close to cargo box tilt release handles for safety information.

Suspension

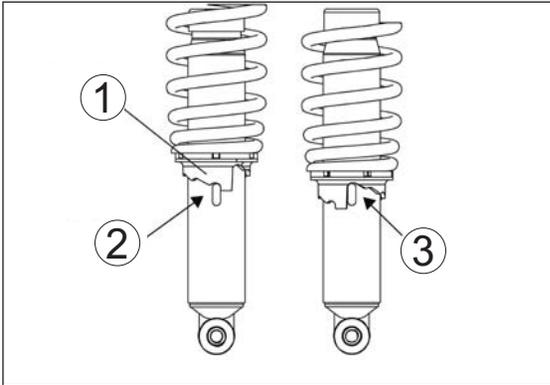
Suspension Adjustment Guideline

The suspension setting varies with vehicle load, personal preference, riding speed and terrain condition.

There are 5 cam positions on each shock absorber to adjust spring preload.

Shock spring is set at lowest position(cam position #5) at factory. This setting can only satisfy the riding in common conditions.

VEHICLE INFORMATION



1. Adjustment cam

2. Highest setting

3. Lowest setting

Since this vehicle comes equipped with front and rear sway bar, basically it's not necessary to reset suspension.

Only have professionals reset suspension if the vehicle is fully loaded and return to initial setting when loads are released.

When the vehicle is prepared to pull loads, please contact your dealer to adjust the suspension, using special tool. To ease the adjust-

ment, lift the vehicle and securely support it.

To adjust suspension, observe the following rules:

- Return to factory setting after loads are released.
- Ensure to adjust each shock spring on the same cam position.

If the vehicle carrying loads are low, do not adjust suspension to the highest position or the second highest position.

Carrying loads include driver, passenger, allowed accessories, trailer tongue weight and cargo.

Do not exceed the load limits of the vehicle.

Fuel

Recommended Fuel

The recommended fuel for this vehicle is #93 unleaded gasoline.

VEHICLE INFORMATION

WARNING

Fuel is flammable and explosive under certain conditions. Be careful whenever using gasoline:

- Always stop engine prior to refueling. Ensure to refuel outdoors or in well-ventilated areas.
- Never fill the gasoline container in the vehicle cargo box or on-the vehicle - an electrical static discharge may ignite the fuel.
- Never smoke or allow flame or spark in gas station or fuel storage.
- Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow.
- If fuel spills on you, wash with soap and water and change your clothes.
- Never run the engine in enclosed or poorly ventilated areas for a prolonged period. Engine exhaust is poisonous and if deadly levels collect, you can quickly lose consciousness or even die.

Vehicle Fueling Procedure

1. Stop the engine.
2. Have the driver and passenger get off the vehicle.
3. Unscrew slowly the fuel tank cap counter-clockwise to remove it.
4. Insert the spout into the filler neck.
5. Pour fuel slowly so that air can escape from the tank and prevent fuel flow back. Be careful not to spill fuel.
6. Stop filling when the fuel reaches the bottom of filler neck. Do not overfill.
7. Fully tighten fuel tank cap clockwise.

VEHICLE INFORMATION

Break-In Period

Operation During Break-In

A break-in period of 20 operating hours or 750 km is required for this vehicle.

CAUTION:

During the break-in period:

- Do not carry or pull loads in initial 20 hours or 750 km.
- Avoid full throttle. Full throttle in break-in period may result in engine parts damage or a shorter engine service life.
- Avoid pressing throttle pedal more than 1/2 of the stroke in the initial 10 hours of the break-in period.
- Avoid pressing throttle pedal more than 3/4 of the stroke in the 10-20 hours of the break in period.
- The use of non recommended engine oil can result in serious engine damage. The recommended engine oil is SAE15W-40/SG.

Preparations before driving:

- Refuel if necessary.
- Place the vehicle on a level ground. Check the engine oil level. Add oil if necessary. Ensure to keep engine oil level is between upper and lower limits.
- Drive slowly at the beginning. Choose open areas to familiarize yourself with the controls and operation of vehicle.
- Vary throttle and do not run the engine at sustained throttle position.
- Periodically check coolant level, controls, along with the items outlined in periodic maintenance chart.
- Ensure to carry light loads.
- Ensure to change oil and oil filter after break in period.

VEHICLE INFORMATION

Pre-Ride Inspection

WARNING

Fuel is flammable and explosive under certain conditions.

PRE-RIDE INSPECTION

ITEMS	INSPECTION TO PERFORM	REMARKS
Brake system/brake pedal	Check the operation.	
Brake fluid	Check the fluid level.	
Front suspension	Check the operation. Lubricate if necessary.	
Rear suspension	Check the operation. Lubricate if necessary.	
Steering	Check if steering operates freely.	
Tires	Check tire pressure and condition.	
Wheel/fasteners	Check wheels and wheel nuts for damage.	
Nuts, bolts and other fasteners on the frame	Check for fastness.	
Fuel and engine oil	Check the level.	
Coolant level	Check the level.	

VEHICLE INFORMATION

Coolant hose	Check for leaks.	
Throttle	Check if throttle pedal operates freely.	
Gear shift	Check the operation.	
Indicators/switches	Check the operation.	
Air filter element	Inspect and clean.	
Air filter moisture catch tube	Clean the liquids or sediment if visible.	
Headlights	Check the operation.	
Brake/tail light	Check the operation.	
Riding gear	Wear helmet, gloves and protective clothes.	

VEHICLE INFORMATION

Basic Procedures

Starting the Engine

 **WARNING**

Engine exhaust contains carbon monoxide, a deadly gas, which can make you lose consciousness or even die. Never run the engine in enclosed areas.

 **WARNING**

Do not drive the vehicle immediately after the engine is started in winter. Warm up prior to ride. Otherwise, it could result in engine damage.

Cold starting:

1. Press down the brake pedal.
2. Turn the ignition switch to "O".
3. Shift transmission to Neutral.

NOTE:

- When transmission is in Neutral, if the Neutral indicator light in dashboard is off, have your dealer inspect the wiring or adjust the gear shift linkage.

- The engine can be started in any gear when brake pedal is pressed down. Anyway, it's recommended to start the engine in Neutral or Park.
4. Ensure throttle pedal is released.
 5. Turn the ignition switch to "Ⓝ" to start the engine.

CAUTION:

- If engine does not start after a few seconds, do not keep the ignition switch in "Ⓝ" more than 10 seconds.
 - If the battery is discharged, remove and charge the battery.
6. Before you go, warm up the engine until it idles smoothly.

CAUTION:

Refer to the information in Break-In period when starting the engine for the first time.

Shifting the Transmission

Apply brakes and select the desired shift lever position.

Release brakes.

VEHICLE INFORMATION

CAUTION:

When changing gearbox position, always completely stop the vehicle and apply the brakes prior to moving the shift lever. Damage to the transmission may occur.

Stopping the Engine and Parking the Vehicle

WARNING

Avoid parking on steep slope as the vehicle may roll away.

WARNING

Always put the vehicle in PARK when stopped or parked to prevent rolling.

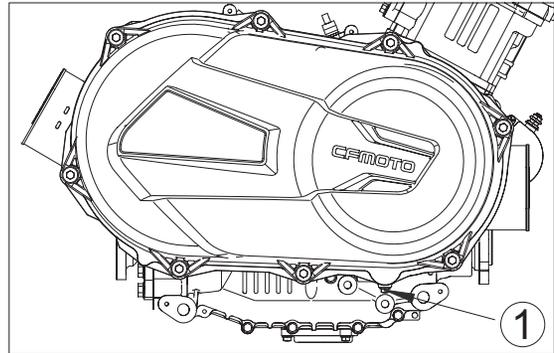
Special Procedures

Cleaning the CVT Inlet

If water or dirt is present in the CVT inlet, remove and clean it.

What to do if Water collects in CVT

If water collects in CVT, remove the drain bolt to drain the water.



1. Drain bolt

CAUTION:

Have your dealer check this vehicle after you drain the water, as the residual water could damage other engine components.

What to do if Vehicle is Submerged

If the vehicle become immersed, it will be necessary to have it transported to your dealer as soon as possible.

CAUTION:

Never start the engine as immersion of the vehicle can cause serious damage to the

VEHICLE INFORMATION

engine if the correct restart procedure is not followed.

Transporting the Vehicle

CAUTION:

Do not transport the vehicle with it erected.

If your vehicle needs to be transported, proceed as follows:

1. Stop the engine. Remove the ignition key.
2. Shift to Neutral. Block the front and rear wheels.
3. Ensure that both the front and rear wheels are firmly fastened.
4. Ensure that fuel cap, oil dipstick and seats are installed properly.

MAINTENANCE

Maintenance Schedule

Maintenance is very important for keeping your vehicle in safe operating condition.

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

Inspect, clean, lubricate, adjust and replace some components when necessary. Always use genuine spare parts.

CAUTION

Periodic maintenance and adjustment is very important. Have a qualified dealer perform this service if you are not familiar with maintenance and adjustment procedures.

The maintenance intervals outlined in below chart is based on average driving conditions. The assumed average speed is 30 km/h. Service more often when the vehicle is subject to severe use.

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
- Frequent short trip in wold weather

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

MAINTENANCE

Maintenance Chart Key

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

 WARNING

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

Periodic Maintenance Chart

Perform all services at whichever maintenance interval is reached first.

ITEM		MAINTENANCE INTERVAL (WHICHEVER COMES FIRST)			REMARKS
		Hours	Calendar	KM	
■	Steering wheel	—	Pre-ride	—	
▶	Front suspension	—	Pre-ride	—	
▶	Rear suspension	—	Pre-ride	—	
	Tires	—	Pre-ride	—	
▶	Brake fluid level	—	Pre-ride	—	
	Brake pads/brake pedal	—	Pre-ride	—	
	Brake system	—	Pre-ride	—	
	Wheels/fasteners	—	Pre-ride	—	
	Frame fasteners	—	Pre-ride	—	
▶	Engine oil level	—	Pre-ride	—	
▶	Air filter inlet	—	Pre-ride	—	Inspect, clean when necessary.
▶	Air filter moisture catch tube				Clean when necessary.
	Coolant	50	—	1500	Check at the first 20 h or 750 km. Replace every 2 years or 6000 km or 200 h.

MAINTENANCE

	Headlights/tail lights		Daily		Check the operation.
▶	Air filter element	50	—	1500	Replace at the first 750 km or 20 h.
	CVT inlet, outlet and drain tube	25	—	750	Clean, and drain the water when necessary. Check at the first 750 km or 20 h.
▶	Brake pad wear	25	Monthly	750	Check for abnormal wear.
	Battery	50	Monthly	1500	Check the terminals and clean oxide. Check at the first 750 km or 20 h.
▶	Front differential oil	50	Monthly	1500	Check the oil level. Replace every 3000 km or 100 h. Replace at the first 750 km or 20 h.
▶	Rear gearcase oil	50	Monthly	1500	Check the level. Replace every 3000 km or 100 h. Replace at the first 750 km or 20 h.
▶	Clutch	100	12 M	3000	Inspect
▶	General lubrication	50	3 M	500	Lubricate all the fittings, pivots, cables, etc.
	Steering knuckle	50	6 M	500	Inspect, lubricate, adjust
■	Steering system	50	6 M	500	Lubricate
▶	Front suspension	50	6 M	500	Lubricate
▶	Rear suspension	50	6 M	500	Lubricate
	Shift linkage	28	1 M	500	Inspect, lubricate, adjust

MAINTENANCE

■	Throttle cable	50	6 M	500	Inspect, lubricate, adjust. Replace if necessary.
■	Drive belt	50	—	1500	Replace every 100 h or 3000 km.
■	Throttle body	100	—	3000	Check for dirt ingress, clean as needed. Check at first 20 h or 750 km.
▶	Air intake duct	50	6M	500	Inspect duct for proper sealing/air leaks.
▶	Engine oil change	100	—	1000	Replace after first 20 h or 750 km.
▶	Fuel hoses	100	—	1000	Check the routing, conditions. Replace the high pressure fuel hoses every 4 years.
■	Valve clearance	100	12 M	3000	Inspect, adjust at the first 750 km or 20 h.
■	Fuel system	100	12 M	3000	Inspect fuel cap, fuel pump and fuel pump relay.
■	Oil filter	100	—	1000	Replace. Replace at the first 750 km or 20 h.
▶	Radiator, radiator cap, cooling system pressure	200	24 M	6000	Inspect at the first 750 km or 20 h. Clean the radiator fins as needed.
▶	Coolant hoses	100	—	1000	Inspect at the first 750 km or 20 h.
▶	Engine mounts	100	12 M	3000	Inspect at the first 750 km or 20 h.
	Exhaust system	100	12 M	1000	Inspect
■	Ignition coil	100	12 M	1000	Inspect. Replace if necessary.

MAINTENANCE

■	ECU	100	12 M	1000	Inspect. Replace if necessary.
	Wiring	100	12 M	1000	Inspect. Replace if necessary.
■	Drive and driven pulleys	100	12 M	3000	Inspect, clean. Replace worn parts if necessary.
■	Wheel bearings	100	12 M	1600	Inspect. Replace if necessary.
■	Brake fluid	200	24 M	2000	Inspect. Replace every 2 years.
	Spark plug	100	12 M	3000	Inspect at the first 20 h or 750 km. Replace every 200 h or 6000 km or 2 years.
	Idle speed				Standard: 1500 ±150 rpm(CF500UTR-2) 1300 ±130 rpm(CF800UTR-2)
■	Master cylinder push rod				Check periodically. Replace the parts if necessary.
▶ ■	Auxiliary brake				Inspect daily. Adjust as needed.
	Headlight aim				Adjust when necessary.

MAINTENANCE

Lubrication Recommendations

Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart, or more often under severe use, such as wet or dusty conditions.

Items not listed in the chart should be lubricated at the general lubrication intervals.

Lubrication Chart

ITEM	LUBE	METHOD
Engine oil	SAE15W - 40/SG	Add to proper level on dipstick.
Brake fluid	DOT4	Maintain level between upper and lower limits.
Front differential oil	SAE80W90GL-4	
Rear gearcase oil	SAE80W90GL-4	
Tie rod ends, pivots, fittings	Grease	

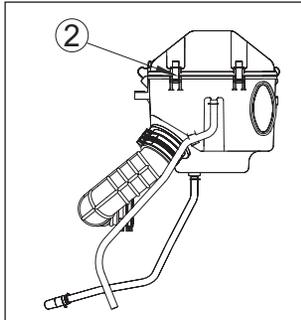
MAINTENANCE

Maintenance Procedures

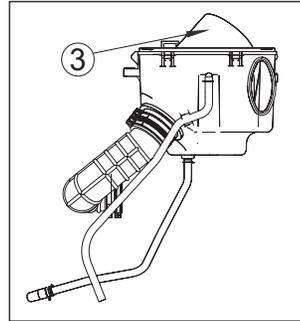
Air Filter

NOTE

The air filter comes installed with a moisture catch tube. If dust or liquids collect in this tube, clean out this tube, air filter element and air filter housing. If a large amount of water is present in the air filter, have your dealer check for water entering crankcase.



1. Air filter moisture catch tube
2. Clamp



3. Air filter

Cleaning the air filter

To clean the air filter element, proceed as follows:

1. Remove the air filter cover.
2. Disengage the clamps to remove the air filter housing cover.
3. Remove the clamp bolt.
4. Remove the air filter #3.
5. Clean the air filter foam element, using a high flash point cleaner. Dry out the foam element and reinstall it.

MAINTENANCE

6. Lightly clean out the dust collects on the paper element.
7. Replace the air filter as needed.

CAUTION

Do not use liquid cleaner to clean the paper element.

8. Install the air filter. Ensure that the filter is properly seated on the intake duct.
9. Install the air filter housing cover. Ensure to securely latch it.

NOTE

Air filter element should be replaced every 50 H or 1500 km.

Air filter replacement frequency must be increased if the vehicle is often operated in dusty areas.

Ensure to check if the air filter intake is clogged. Check if the air filter, throttle body and intake duct are securely connected.

Fasten all the connections to prevent unfiltered air entering the engine.

CAUTION

Do not start the engine without air filter. Otherwise unfiltered air will enter the engine and engine premature wear or even damage may occur. Moreover, driving without air filter could result in engine performance degradation and overheat.

Spark Arrestor

Cleaning the spark arrestor

 WARNING

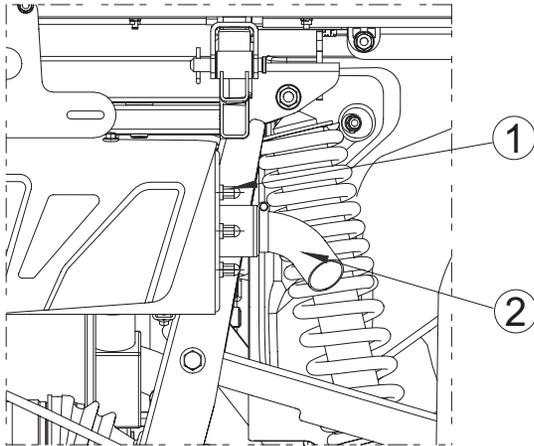
Ensure that the exhaust pipe and muffler are fully cooled down while servicing the spark arrestor.

To clean the spark arrestor, proceed as follows:

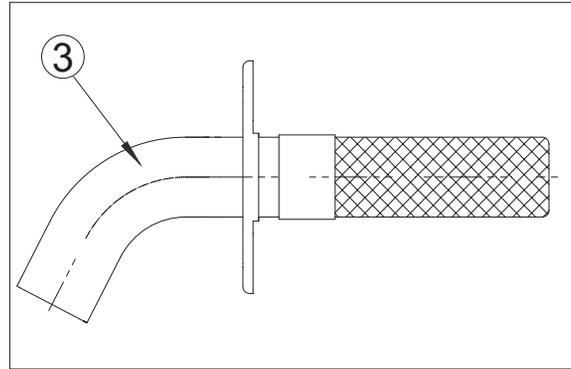
1. Remove the retaining screws #1.
2. Remove the spark arrestor #2 from the end of the muffler.
3. Lightly tap the spark plug. Use a metal brush to clean out the carbon deposits on the arrestor screen.

MAINTENANCE

4. Insert the spark arrestor into the muffler and align the screw holes.
5. Tighten the retaining screws #1.



1. Retaining screws
2. Spark arrestor



3. Screen

Engine oil

Inspect and replace the engine oil as per the maintenance intervals outlined in periodic maintenance chart.

To Check the Engine Oil Level

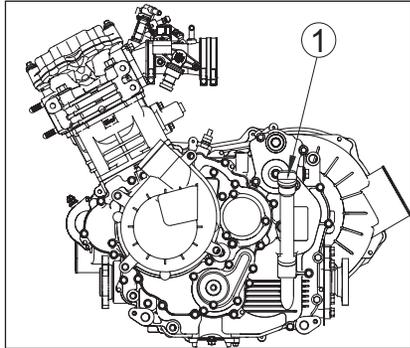
With vehicle on a level surface, check the oil level as follows:

1. Remove the passenger seat.
2. Start the engine and allow it to idle for 20 ~

MAINTENANCE

30 seconds. Stop the engine.

3. Wait for a few minutes to allow the engine oil to settle down in crankcase.
4. Unscrew the oil dipstick and then wipe it off with a clean rag.
5. Insert the dipstick completely into the oil filler hole, and then remove it again to check the oil level.



1. Oil dipstick

NOTE:

Engine oil level should be between the upper and lower marks.

NOTE:

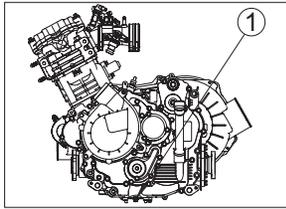
Do not screw in the dipstick when checking the engine level.

6. If the engine level is below the lower mark, add oil to proper level.
7. Insert the oil dipstick and fully tighten it.
8. Reinstall the removed passenger seat.

To Change the Engine Oil

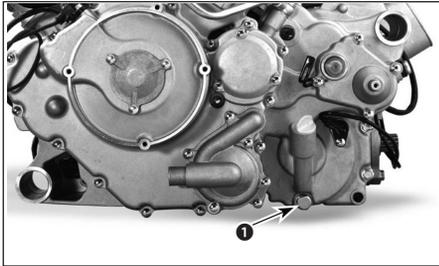
1. Start the engine and allow it to warm up for 2 ~ 3 minutes, then stop the engine.
2. Place an oil pan under the engine to collect the used oil, and then remove the dipstick.
3. Remove the engine oil drain bolt to drain the oil from the crankcase.

MAINTENANCE



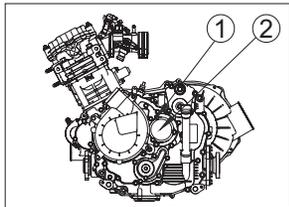
CF500UTR-2

1. Drain bolt

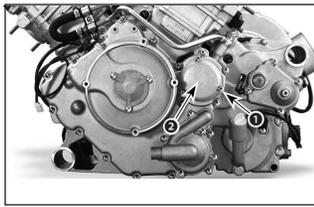


CF800UTR-2

To Change the Oil Filter



CF500UTR-2



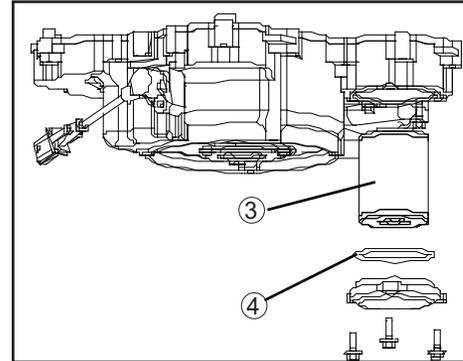
CF800UTR-2

1. Remove the 3 oil filter cover bolts #1
2. Remove the oil filter cover #2 and the oil filter #3
3. Replace the oil filter with a new one.

NOTE:

Ensure that the O-ring #4 is in good condition and it's properly seated in the groove.

4. Install the 3 oil filter cover bolts #1 and tighten them to specified torque.



MAINTENANCE

NOTE:

Oil filter cover tightening torque: 10 N·m

5. Use a new drain bolt washer and tighten it to specified torque.

NOTE:

Drain bolt washer tightening torque: 30 N·m

6. Add recommended oil to specified level and then screw in the oil dipstick.

NOTE:

- * Oil capacity at the first replacement: 3.0 L
 - * Oil capacity without oil filter replacement: 2.8 L
 - * Oil capacity with oil filter replacement: 2.9 L
 - * Oil radiator: add 0.5 L after first start
 - * Oil radiator: add 0.45 L after service
7. Start the engine and allow it to warm up for a few minutes. Check for oil leakage when the engine is warm. Stop the engine immediately if oil leaks are present.
 8. Stop the engine and check the engine level. Revise if necessary.

Rear Gearcase Oil

Check the rear gearcase for oil leaks prior to each use. If oil leakage is present, have your dealer determine the cause.

To Change the Rear Gearcase Oil

1. Place the vehicle on a level surface and remove the fill plug #1.
2. Place an oil pan under the engine to collect the used oil.
3. Remove the drain plug #2 and allow the oil to drain completely.
4. Install the drain plug and torque it to specification.

NOTE:

Drain plug tightening torque: 23 N·m

5. Add the recommended oil to proper level.

NOTE:

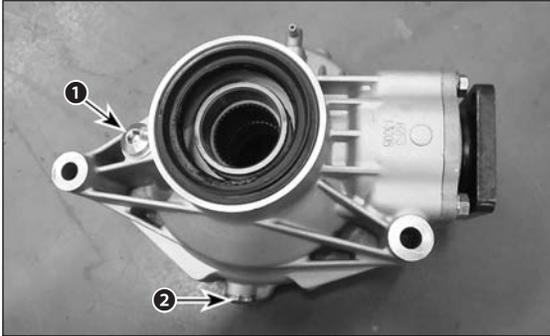
Oil capacity(at periodic maintenance): 0.25 L

Oil capacity(preliminary): 0.30 L

6. Reinstall the fill plug and torque to specification.

MAINTENANCE

7. Check for oil leaks. If oil leakage is present, troubleshoot the failure.



1. Fill plug
2. Drain plug

NOTE:

Fill plug tightening torque: 23 N·m

CAUTION

Make sure that no foreign material enters the rear final drive.

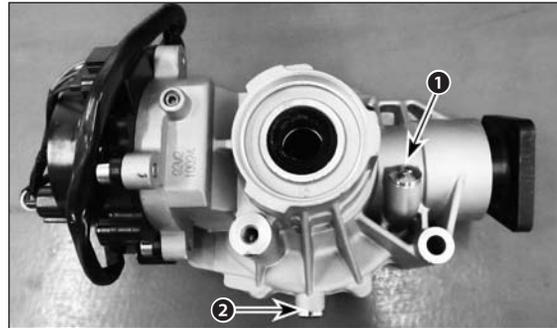
Front Differential Oil

To Check the Front Differential Oil

1. Place the vehicle on a level surface.
2. Remove the fill plug #2 and check the oil level. Maintain the oil level even with the bottom thread of the fill plug hole.
3. Reinstall the fill plug and torque it to specification.

NOTE:

Fill plug tightening torque: 23 N·m



1. Fill plug
2. Drain plug

MAINTENANCE

To Change the Front Differential Oil

1. Place the vehicle on a level surface.
2. Place an oil pan under the front differential to collect the used oil.
3. Remove the fill plug and drain plug. Allow the oil to drain completely.
4. Reinstall the fill plug #2 and torque it to specification.

NOTE:

Drain plug tightening torque: 10 N·m

5. Add recommended oil to proper level.

NOTE:

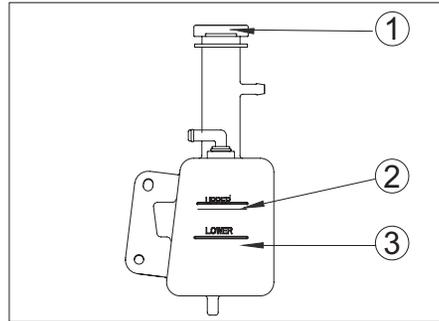
- * Oil capacity at periodic maintenance: 0.28 L
 - * Oil capacity in total: 0.33 L
6. Install the fill plug #2 and torque to specification.
 7. Check for oil leaks. If oil leakage is present, troubleshoot the problem.

CAUTION

Make sure that no foreign material enters the rear final drive.

Cooling System

To Check the Coolant Level



1. Coolant reservoir cap
2. "Upper" mark
3. "Lower" mark

1. Place the vehicle on a level surface.
2. Check the coolant level in the coolant reservoir, as the coolant level in the coolant reservoir varies with the engine temperature changes.

NOTE:

Engine coolant level should be between the upper and lower marks.

MAINTENANCE

- If the coolant level in the coolant reservoir is below the lower mark, open the coolant reservoir cap and add coolant to the upper mark. Reinstall the coolant reservoir cap and other removed parts.

NOTE:

Coolant reservoir capacity at the lower mark: 0.23 L.

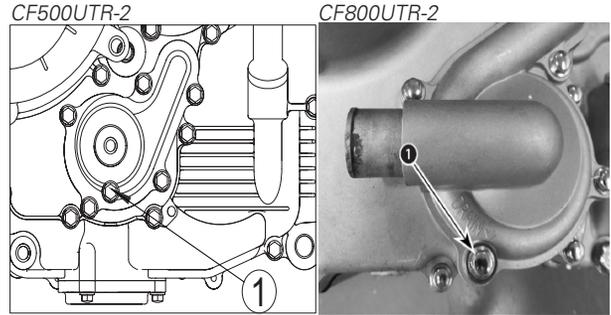
CAUTION

Tap water or sea water is harmful for the engine, which can only be alternated as coolant in special conditions temporarily.

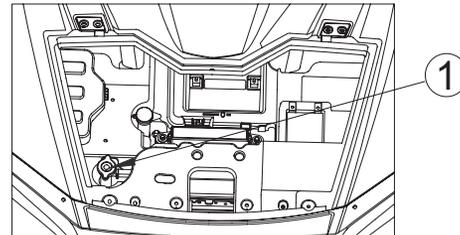
CAUTION

If tap water or distilled water is alternated as coolant temporarily, have your dealer replace with specific coolant and inspect the cooling system performance.

To Change the Coolant



1. Coolant drain bolt



1. Radiator cap

MAINTENANCE

With vehicle on a level surface and engine cold, proceed as follows:

1. Place an container under the engine to collect the used oil.
2. Remove the coolant drain plug #1.
3. Remove the radiator pressure cap, along with the coolant reservoir cap.

 WARNING

In order to avoid potential burns, do not remove the pressure cap or loosen the coolant drain plug if the engine is hot.

4. Drain the coolant in coolant reservoir.
5. If the drain plug washer is worn out, replace it with a new one.
6. Torque the drain plug to specification.

NOTE:

Coolant drain plug tightening torque: 10 N·m

7. Install the coolant reservoir hose.
8. Add recommended coolant to proper level.

NOTE:

Remove the thermostat cover screw before

filling the coolant. This would help to bleed the air trapped in cooling system. Install the thermostat screw when coolant spills.

NOTE:

Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines.

We recommend the use of a 50/50 mixture of anti-freeze and distilled water.

Always use CFMOTO premixed coolant.

Coolant capacity in total: 3.0 L

Coolant capacity at replacement: 2.5 L

To change the coolant in reservoir

Coolant reservoir capacity: 0.68 L

CAUTION

Tap water or sea water is harmful for the engine. Always use recommended coolant.

9. Install the radiator pressure cap.
10. Start the engine and allow it to idle for a few minutes, and then stop the engine. Check the coolant level in radiator after the

MAINTENANCE

cooling system is fully cooled down. If coolant level is below the lower mark, add recommended coolant to radiator filler neck.

11. Add coolant in reservoir to the upper mark.
12. Install the coolant reservoir cap and check for coolant leaks.
13. Install the removable hood

Spark Plugs

Access to Spark Plugs

1. Tilt the rear cargo box to access to spark plug of the first cylinder.
2. Remove air filter housing cover to access to spark plug of the second cylinder.

Spark Plug Removal

1. Unplug spark plug cable.
2. Remove spark plug, using a special wrench.

NOTE:

Spark plug removal procedure is the same for both cylinders.

3. Using compressed air, clean spark plug and cylinder head.



Spark plug cap, front cylinder



Spark plug cap, rear cylinder

MAINTENANCE

Spark Plug Inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

The ideal color of the porcelain insulator around the center electrode is a medium-to-light tan for a vehicle that is being ridden normally.

You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

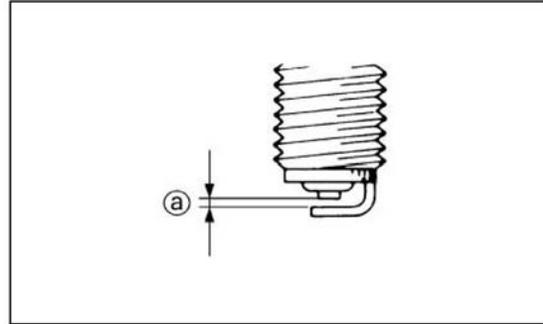
NOTE:

Specified spark plug: DCPR8E (NGK)

Measure the spark plug gap with a feeler gauge and, if necessary, adjust the gap to specification.

NOTE:

Spark plug gap: 0.8 ~ 0.9 mm



a. Spark plug gap

Spark Plug Installation

1. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
2. Install the spark plug and tighten it to the specified torque. If a torque wrench is not available when you are installing the spark plug, a good estimate of the correct torque is one-quarter to one-half turn past finger tight.

NOTE:

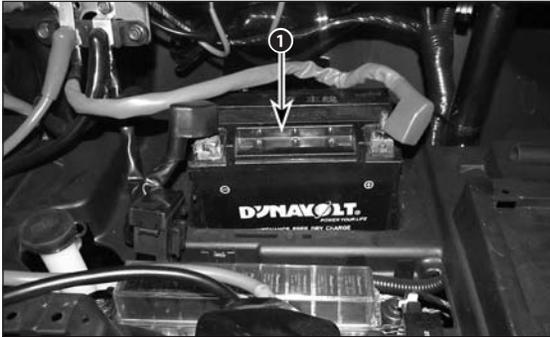
Spark plug tightening torque: 20 N·m

MAINTENANCE

3. Install the spark plug cable.
4. Install other removed parts.

Battery

The battery is located under the front hood.



1. Battery

It is a maintenance-free type battery, there is no need to add water to adjust electrolyte level. If the battery is discharged, consult your dealer.

Battery capacity: 12 V 30 Ah

CAUTION

Do not try to remove the sealing caps of the

battery cells. You may damage the battery.

⚠ WARNING

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

In case of accidental contact with battery electrolyte:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Seek prompt medical attention.

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

⚠ WARNING

Batteries may produce explosive gases. Ventilate when charging or using in a closed space. Keep batteries away from sparks, flames, cigarettes, or other sources of ignition.

MAINTENANCE

Battery Maintenance

1. If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.

CAUTION

To charge this battery, a specified battery charger is required. Using a conventional battery charger will damage the battery.

2. Ensure to the cables are properly routed when installing the battery.

Fuses

Fuse replacement

1. The main fuse and the fuse box are located under the hood. The main fuse is installed on starter relay.
2. If a fuse is blown, turn off the ignition switch.
3. Install the specified fuse and turn on the ignition switch. If the fuse is blown again, consult your dealer.



Fuse box

CAUTION

Always use a fuse of the specified amperage. Never use any material in place of the proper fuse. Using an improper fuse can cause damage to the electrical system and may lead to a fire.

MAINTENANCE

Ref.	FUSE	RATING
F1	Main fuse	40A
F2	Fuel pump/EFI/ignition power supply/auxiliary starter relay	10A
F3	Turn signal/position light/dashboard/horn/diff. gear motor relay	15A
F4	DC outlet/MP3/navigator	15A
F5	ECU power supply	5A
F6	Fan motor	15A
F7	Headlight	20A

CAUTION

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

Lights

Always check light operation prior to each use.

Replacing a headlight bulb

If a headlight bulb burns out, replace it as follows:

1. Remove the back cover of the headlight by turning it counter-clockwise.

2. Disengage the headlight bulb clamp.
3. Remove the headlight bulb.

WARNING

Wait for the headlight bulb to cool before touching or removing it. Always wear gloves to perform the bulb replacement.

4. Insert a new headlight bulb and engage the bulb clamp.
5. Reinstall the headlight back cover.



1. Headlight back cover 2. Clamp

MAINTENANCE

Headlight beam adjustment

CAUTION

It is advisable to have your dealer make this adjustment.

To adjust high beam, turn the screw #1.

To adjust low beam, turn the screw #2.



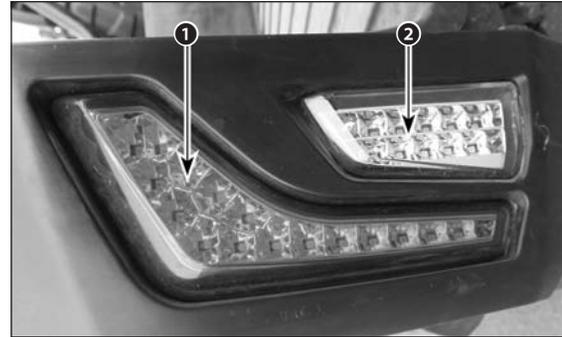
1. Hi beam adjustment screw

2. Lo beam adjustment screw

Tail/brake light/turn signal light bulb replacement

Brake/tail lights, rear turn signal lights and front position lights are LED type. Have your dealer

replace the entire light if a bulb is damaged.



1. Stop/rear position lamp

2. direction indicator lamp

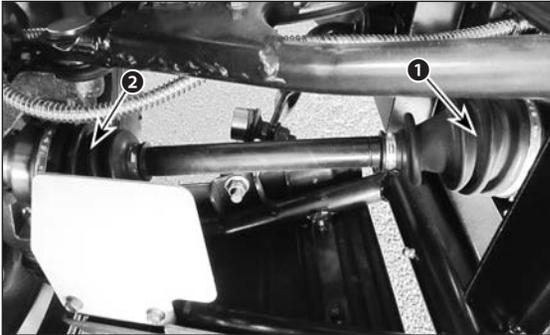
Drive Shaft Boots

Drive Shaft Boot Inspection

Check drive shaft boots for cracks, tears, leaking grease, etc.

Repair or replace damaged parts as necessary.

MAINTENANCE



1. Inner CV joint
2. Outer CV joint

Wheel Bearing

Wheel Bearing Inspection

Lift the vehicle and support it securely.

Push and pull the wheels from the upper edge to feel the play.

See your dealer if there is any play.

Wheels and Tires

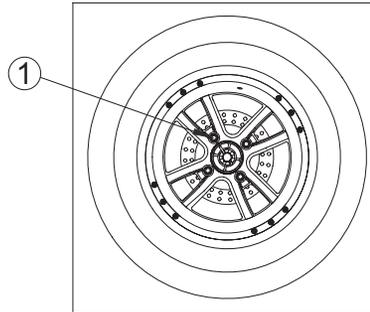
Wheel Removal

1. Place the vehicle on a level surface.

2. Elevate the vehicle and place a suitable stand under the frame.
3. Remove the wheel nuts #1.
4. Remove the wheel.

Wheel Installation

1. Install the wheel and wheel nuts.



1. Wheel nut

NOTE:

Torque the wheel nuts to specification.

NOTE:

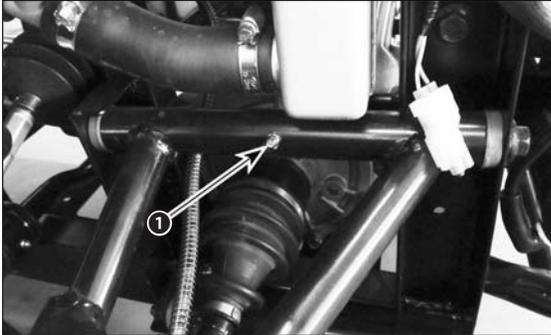
Wheel nut tightening torque: 75 N-m front, 75 N-m rear.

MAINTENANCE

Suspension

Front and Rear Suspension Lubrication

Periodically clean and lubricate the grease fittings.



1. Grease fittings

Brakes

Replacement of brake components requires professional knowledge. Brake service should be performed by your dealer.

Checking the front and rear brake pads

If the brake pad lining is worn to 1.5 mm, have your dealer replace the brake pads.

NOTE:

Always replace the brake pads as a set.

Checking the brake fluid level

Before riding, check that the brake fluid is above the minimum level mark.

Replenish the brake fluid if necessary.

Observe these precautions:

- Place the vehicle on a level surface when checking the brake fluid level through the fluid level check window.
- Insufficient brake fluid may allow air to enter the brake system, reducing braking performance.
- Use only the specified brake fluid; otherwise, the rubber seals may deteriorate, causing leakage.

MAINTENANCE



Master Cylinder

NOTE:

Recommended brake fluid: DOT4

- Refill with the same type of brake fluid. Adding a brake fluid other than the specified brake fluid may result in a harmful chemical reaction.
- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may damage painted surfaces or plastic parts. Always clean up spilled fluid im-

mediately.

- As the brake pads wear, it is normal for the brake fluid level to gradually go down. A low brake fluid level may indicate worn brake pads and/or brake system leakage; therefore, be sure to check the brake pads for wear and the brake system for leakage. If the brake fluid level goes down suddenly, have your dealer check the cause before further riding.

Throttle Body

Throttle body is an important engine component, which, requires professional adjustment.

Have your dealer perform the adjustment as they have professional knowledge and experience.

CAUTION

Throttle body is set after many tests. If the setting is disturbed by anyone without enough professional knowledge and experience, it may result in engine performance degradation or other damages.

Throttle body limit screw is precisely calibrated and can not be reset again.

MAINTENANCE

Check the idle speed for stability. If the idle speed is unstable, ask your dealer for help.

Idle Speed

The idle speed is controlled by EFI system and it does not require any adjustment.

Improper adjustment of idle speed may affect the engine performance.

If the idle speed is abnormal, consult your dealer.

NOTE: idle speed: 1500 ± 150 rpm (CF500UTR-2)
1300 ± 130 rpm (CF800UTR-2)

Valve Clearance Adjustment

The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise.

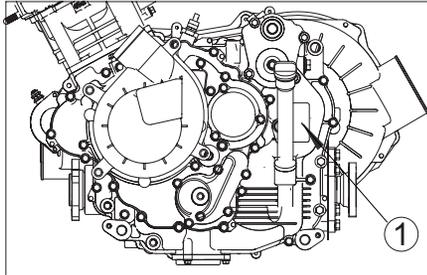
To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be performed by your dealer.

VEHICLE IDENTIFICATIONS

Record your vehicle identification number(VIN) and engine identification number(EIN) in the spaces provided.

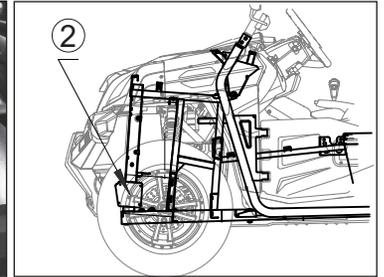
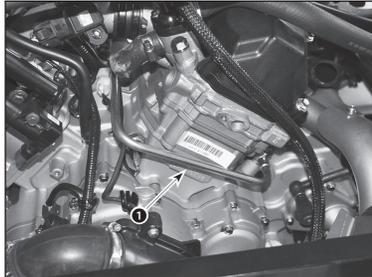
Remove the spare key and store it in a safe place. You can only use your existing key to duplicate a new one. Therefore, if the 2 keys are lost, the complete lock kit has to be replaced.

CF500UTR-2



1. EIN

CF800UTR-2



2. VIN

1. Engine identification number: _____

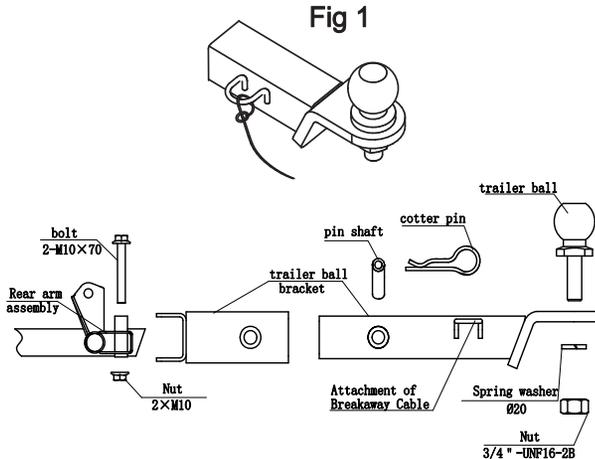
2. Vehicle identification number: _____

VEHICLE IDENTIFICATIONS

Where a designated attachment point is provided on the towbar:

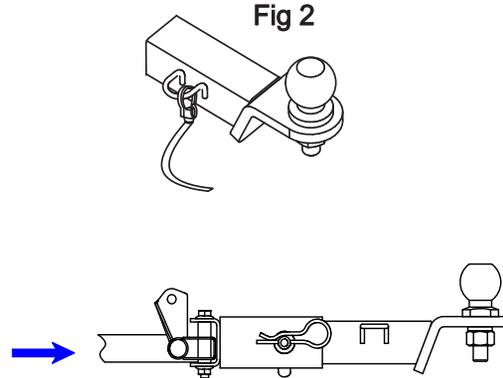
Either:

a) Pass the cable through the attachment point and clip it back on itself (FIG.1)



Or:

b) Attach the clip directly to the designated point (Fig.2). This alternative must be specifically permitted by the trailer manufacturer since the clip may not be sufficiently strong for use in this way.



EPS Trouble Code Table

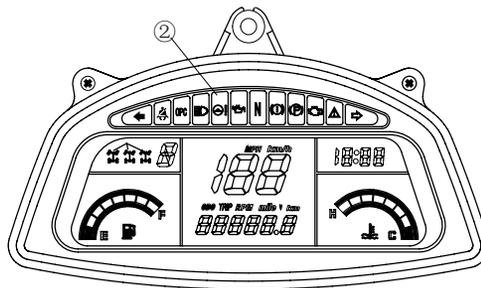
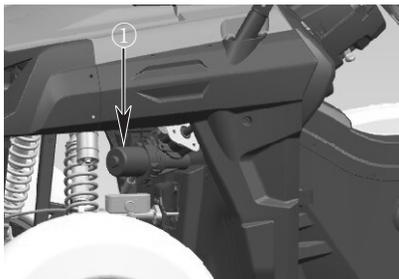
Item No	Trouble Code	Diagnosis	Solution
1	21	Main torque sensor disconnected	Check the wiring harness of sensor
2	22	Main torque sensor output error(voltage is too high or low)	Check the wiring harness of sensor
3	23	Secondary Sensor disconnected	Check the wiring harness of sensor
4	24	Secondary torque sensor output error (voltage is too high or low)	Check the wiring harness of sensor
5	25	Excessive difference between main and secondary torque	Check the wiring harness of sensor
6	26	Main torque sensor inner fault	Replace the Controllor(ECU)
7	32	Abnormal steering assist of motor	Check the connection of Motor harness. Replace the controller if the problem is still there.
8	33	Current overlod with Controller	Replace the Controllor(ECU)
9	34	No steering assist from one side of motor	Replace the Controllor(ECU)
10	35	Excessive zero point offset of Electric current sensor	Replace the Controllor(ECU)
11	36	Motor voltage abnormal	Check wiring harness of motor

EPS fault diagnosis and solution

Ref No	Trouble shooting	Possible causes	Repair procedures
1	No steering assist to handlebar	Improper plug connection	Check the plugs and connections
		Burnt fuse	Replace fuse(30A)
		Failure of Controller, Motor or sensor	Contact authorized dealer and replace the parts.
2	Asymmetrical steering assist to left and right turning	Improper voltage output from sensor	Contact authorized dealer for adjustment or replacement
		Controller, Motor or sensor break down	Contact authorized dealer and replace the parts.
3	Steering swing	Wrong connections at motor terminals	Change the terminal connection of the red and black wire
		Controller or sensor break down	Contact authorized dealer for parts and replacement
4	Low power steering assist	Low battery	Recharge or replace battery
		Motor break down.	Contact authorized dealer for replacement
		Low pressure with Front tires	Inflate tires to the required pressure
5	Noise from system	Motor break down.	Contact authorized dealer for replacement
		Steering system parts wear out and big clearance exist.	Replace the related parts.
		Improper assembly of steering column or mechanical steering assembly parts	Check and tighten all of bolts.

EPS system

EPS indicator on the Dashboard will be on when EPS system ① is equipped to the vehicle. Normally, EPS fault alarm indicator ② on dashboard will be on when EPS breaks down.



Trouble Code

Each trouble code consists of 2 digits, denoted by the times of long flash and short flash of EPS indicator.

Times of long flash represent the tens digit;

Times of short flash represent the single digit;

Duration of long flash: 2 sec.

Duration of short flash: 1 sec.

Flash interval: 1 sec.

The flash cycle will repeat after EPS indicator turns off for 3 seconds.

⚠ NOTE In case of an EPS failure, do not disassemble the EPS system. Check the wiring for any loosening connection. Otherwise please contact an authorized dealer for service.

SPECIFICATIONS

ITEM	CF500UTR-2	CF800UTR-2
Vehicle size	2922mm×1488mm×1864mm	
Front track	1190mm	
Rear track	1180mm	
Ground clearance	258mm	
Vehicle turning diameter	9100mm±500mm	
Unladen mass	700kg	
Engine model	191R	2V91W
Type	4-stroke,liquide-cooled,4valves,SOHC	4-stroke,liquide-cooled,8valves,SOHC
Bore × stroke	91mm×76.2mm	91mm×61.5mm
Displacement	495cc	800cc
Compression ratio	10.3 : 1	
Starting	Electric	
Lubrication	Pressure & spray	

SPECIFICATIONS

ITEM	CF500UTR-2	CF800UTR-2
Engine oil: Grade Oil change: Oil change with oil filter replacement Overhaul Oil radiator: Oil replenishment after first start Oil replenishment after service	SAE15W-40/SG 2.9 L 3.0 L 0.5 0.45	 3.4 L 3.5 L 0.5 0.45
Rear gearcase oil: Grade Capacity: Periodic change Preliminary	SAE80W90 GL-4 0.25 L 0.30 L	
Front differential oil: Grade Capacity: Periodic change Preliminary	SAE80W90 GL-4 0.30 L 0.33 L	
Air filter	Paper type	
Fuel: Fuel tank capacity Fuel remaining when low fuel light turns ON	95(RON) or E10 26L ± 0.5L 3.5 L	
Throttle body: Type	OGRB-173000	0800-173000-1000

SPECIFICATIONS

ITEM		CF500UTR-2	CF800UTR-2
Spark plug: Type Spark plug gap		DCPR8E(NGK) 0.8mm ~ 0.9mm	
Transmission	Clutch	Wet, centrifugal	
	Transmission type	CVT + gearbox	
	Shift operation	Right hand/L-H-N-R-P	
	CVT ratio	0.67 ~ 3.02	
	Gearbox	Low gear	38/15 = 2.533
High gear		27/20 = 1.350	32/28 = 1.143
Reverse		29/14 = 2.071	29/13 = 2.230
Chassis: Frame type		Tubular steel	
Tires Type Pressure		Tubeless Front: 26 × 9.00 -12 , Rear: 26 × 11.00 -12 Front: 26 × 9.00 -14 , Rear: 26 × 11.00 -14 Front: 26 × 9.00 R14 , Rear: 26 × 11.00 R14 Front:80 kPa, Rear: 100 kPa	
Brakes Front: Rear:		Hydraulic disc, foot operation Hydraulic disc, foot operation	

SPECIFICATIONS

<p>Front Suspension: Type Suspension travel Shock type</p>	<p>Double swing-arm 165 mm Coil spring/oil damping or coil spring + gas spring/oil damping</p>
<p>Rear Suspension: Type Suspension travel Shock type</p>	<p>Double swing-arm 185 mm Coil spring/oil damping or coil spring + gas spring/oil damping</p>
<p>Cooling system: Preliminary Change Coolant reservoir capacity</p>	<p>3.5 L 2.0 L 0.68 L</p>
<p>Electrical system: Ignition type Alternator</p>	<p>ECU Permanent magnet, AC</p>
<p>Lights: Low beam, headlight High beam, headlight Front position light Brake/tail light Turn signal light</p>	<p>H3 12V, 55W × 2 H7 12V, 55W × 2 LED LED LED</p>
<p>Battery Capacity</p>	<p>12V 30Ah</p>

SPECIFICATIONS

Dashboard	Neutral indicator light	Green/LED
	Reverse indicator light	LCD Mil Yellow/LED
	Park indicator light	LCD Mil Yellow/LED
	High range indicator light	LCD Mil Yellow/LED
	Low range indicator light	LCD Mil Yellow/LED
	Panel light	Color LCD
	High beam indicator light	Blue/LED
	Override indicator light	Red/LED
	2WD/42D indicator light	LCD
	Coolant temp. indicator	LCD
	Fuel level indicator	LCD
	MIL	LED

EPS specification

Ref No	Item	Specification
1	Motor type	DC Permanent Magnet Motor
2	Rated voltage	12 V
3	Max. Input Current to Controller	35 A
4	Motor Power	220 W
5	Max. Output Torque	2N·m
6	Reducer Type	Worm reducer
7	Reduction Ratio	16.5 : 1
8	Max. Output Torque from Driver	30 N·m
9	Torque Sensor	Non-contact magnetic potentiometer
10	Torsion Rod Rigidity	7.5 N·m
11	Operating Angle Of Torque Sensor	$\pm 3^\circ$
12	Operating Temp.Range Of EPS Assy	-30°C ~ 65 °C
13	Protection Degree Of EPS Assy	Ip67

TROUBLESHOOTING

Troubleshooting Guidelines

Drive Belt Wear/Burn

POSSIBLE CAUSE	SOLUTION
Driving onto a pickup or tall trailer in high range	Use low range during loading.
Starting out going up a steep incline	Use low range.
Driving at low RPM or ground speed (5 km/h~10 km/h)	Drive at a higher speed or use low range more frequently.
Insufficient warm-up at low ambient temperatures	Warm up the engine. The belt will become more flexible and prevent belt burning.
Slow/easy clutch engagement	Use the throttle quickly and effectively.
Towing/pushing at low RPM/low ground speed	Use low range only.
Utility use/plowing	Use low range only.
Stuck in mud or snow	Shift the transmission to low range and carefully use fast, aggressive throttle application to engage clutch. WARNING: 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. WARNING: Excessive throttle may cause loss of control and vehicle overturn.

TROUBLESHOOTING

Belt slippage from water or snow ingestion into the CVT system	Dry out the CVT.
Clutch malfunction	Have your dealer check the components.

Engine Doesn't Turn Over

POSSIBLE CAUSE	SOLUTION
Low battery voltage	Recharge the battery to 12.8 V
Blown fuse(s)	Replace the blown fuse(s)
Loose battery connections	Check all connections and tighten
Loose connectors	Inspect, clean, reinstall connectors

Engine Turns Over, Fails to Start

POSSIBLE CAUSE	SOLUTION
Out of fuel	Refuel
Clogged fuel filter	Consult your dealer
Water is present in fuel	Drain the fuel system and refuel
Defective fuel pump	Replace
Old or non-recommended fuel	Replace with fresh recommended fuel
Fouled or defective spark plugs	Inspect plugs and replace if necessary
Water or fuel in crankcase	Immediately see your dealer
Clogged fuel injectors	Clean or replace if necessary

TROUBLESHOOTING

Low battery voltage	Recharge the battery to 12.5 V
Mechanical failure	See your dealer
Loosen ground cable	Reconnect
Loosen crankshaft position sensor(CPS) connector	Reconnect

Engine Backfires

POSSIBLE CAUSE	SOLUTION
Weak spark from spark plug	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 fresh recommended fuel
Incorrectly installed spark plug wires	See your dealer
Incorrect ignition timing	See your dealer
Mechanical failure	See your dealer

Engine Pings or Knocks

POSSIBLE CAUSE	SOLUTION
Poor quality or low octane fuel	Replace with recommended fuel
Incorrect ignition timing	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs

TROUBLESHOOTING

Engine Runs Irregularly, Stalls or Misfires

POSSIBLE CAUSE		SOLUTION	
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 specs 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 V	
Kinked or plugged fuel tank vent line		Kinked or plugged fuel tank vent line	Inspect and replace
Incorrect fuel		Replace with recommended fuel	
Clogged air filter		Inspect and clean or replace	
Other mechanical failure		See your dealer	
POSSIBLE LEAN FUEL CAUSE		SOLUTION	
Low or contaminated fuel		Add or change fuel, clean the fuel system	
Low octane fuel		Replace with recommended fuel	
Clogged fuel filter		See your dealer	
Possible Rich Fuel Cause			
POSSIBLE LEAN FUEL CAUSE		SOLUTION	
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 is present in fuel	Replace with new fuel
Fouled or defective spark plugs	Inspect, clean and/or replace spark plug
Worn or defective spark plug wires	See your dealer
Incorrect spark plug gap or heat range	Set gap to specs or replace plug
Loose ignition connections	Check all connections and tighten
Low battery voltage	Recharge the battery to 12.8 V
Incorrect fuel	Replace with fresh recommended fuel
Clogged air filter	Inspect and clean or replace
Other mechanical failure	See your dealer
Overheated engine	Clean radiator screen and core, clean engine exterior, see your dealer

TROUBLESHOOTING

Trouble Light Blink Principle

a. Under the mode of error code, and there is no error code present:

If ECU monitor that MIL in blink code mode, The error light will blink to show the relative Pcode. From the beginning of the ECU ignition, MIL stays on 4 seconds. After interval of 1 second, MIL blink at 2 Hz to predict there is no error. Find the Rev until start the engine.

Blink code need line K grounded.

b. Under the mode of error code, and there is error code present:

If ECU monitor that MIL in blink code mode, The error light will blink to show the relative Pcode. From the beginning of the ECU ignition, MIL stays on 4 seconds. After interval of 1 second, MIL use blink code to show error code. If all error has blinked by MIL and then MIL turn off, exit the blink code mode.

Blink code need line K grounded.

c. Read error information according to blink code.

Turn on the ignition switch, after line K grounded over 2.5 seconds, if there is error code in ECU, the output blink code is P-code. For example, Po0o3: Blinks for 10 times - stay off -blinks for twice - stay off - blinks for 10 times - stay off - blinks for 3 times.

TROUBLESHOOTING

3. Ignition switch is turned on and start the engine. There is error code present:

- MIL keeps on until the problem is fixed.

REF.	ERROR CODE	DESCRIPTION
1	P0030	O2S HEATING CNTRL CIRCUIT OPEN
2	P0031	O2S HEATING CNTRL CIRCUIT SHORT TO GND
3	P0032	O2S HEATING CNTRL CIRCUIT SHORT TO BATT
4	P0107	Manifold Abs.Pressure or Bar.Pressure Low Input
5	P0108	Manifold Abs.Pressure or Bar.Pressure High Input
6	P0112	Intake Air Temp.Circ. Low Input
7	P0113	Intake Air Temp.Circ. High Input
8	P0117	Engine Coolant Temp.Circ. Low Input
9	P0118	Engine Coolant Temp.Circ. High Input
10	P0122	Throttle/Pedal Pos.Sensor A Circ.Low Input
11	P0123	Throttle/Pedal Pos.Sensor A Circ. High Input
12	P0130	O2 Sensor Circ.,Bank1-Sensor1 Malfunction
13	P0131	O2 Sensor Circ.,Bank1-Sensor1 low Voltage
14	P0132	O2 Sensor Circ. ,Bank1-Sensor1 High Voltage
15	P0134	O2 Sensor Circ. ,Bank1-Sensor1 No Activity Detected

TROUBLESHOOTING

16	P0201	Cylinder 1- Injector Circuit
17	P0261	Cylinder 1- Injector Circuit Low
18	P0262	Cylinder 1- Injector Circuit High
19	P0321	Ign./Distributor Eng.Speed Inp.Circ. Range/Performance
20	P0322	Ign./Distributor Eng.Speed Inp.Circ.No Signal
21	P0501	Vehicle Speed Sensor Range/Performance
22	P0560	System Voltage Malfunction
23	P0562	System Voltage Low Voltage
24	P0563	System Voltage High Voltage
25	P0627	Fuel PumpA"Control Circuit/Open
26	P0628	Fuel PumpA"Control Circuit Low
27	P0629	Fuel PumpA"Control Circuit High
28	P0650	Malfunction Indicator Lamp Control Circ.
29	P1105	Idle Speed Actuator Circuit High
30	P1117	Idle Speed Actuator Circuit Low
31	P1118	Idle Speed Actuator Circuit Open

List of Tightening Moment of Force for Main Bolts, Screws, and Nuts STANDARD TORQUE VALUES

Item	Torque N · m	Item	Torque N · m
5mm bolt and nut	5	5mm screw	4
6mm bolt and nut	10	6mm screw	9
8mm bolt and nut	20~30	6mm screw, SH bolt	10
10mm bolt and nut	30~40	6mm flange bolt and nut	12
12mm bolt and nut	40~50	8mm flange bolt and nut	20~30
		10mm flange bolt and nut	30~40

FRONT CONSTANT VELOCITY JOINT

Item	Quantity	Thread dia (mm)	Torque N · m
Differential gear oil filler bolt	1	14	25
Differential gear oil drain bolt	1	14	25
Housing bolt	3	10	40~50

REAR CONSTANT VELOCITY JOINT

Item	Quantity	Thread dia (mm)	Torque N · m
Differential gear oil filler bolt	1	14	25
Differential gear oil drain bolt	1	14	25
Housing bolt	2	10	40~50

Declaration of Drivers exposure to noise level

The undersigned: Lai Minjie, General Manager

Company name and address of the manufacturer:

ZHEJIANG CFMOTO POWER CO., LTD.

No.116, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou, 311100,

Zhejiang Province P.R.China

Make (trade name of the manufacturer): CFMOTO

Type: CF500UTR-2/CF800UTR-2

Variant(s): CF500UTR-2/CF800UTR-2

Version(s): A

Commercial name(s) (if available): UFORCE 500/UFORCE 800

Category, subcategory and speed index of the vehicle: T1,T1b

Hereby declares that:

For the following vehicle:

The Drivers exposure to noise level result is 85 dB(A)(Limit: 86 dB(A)) according to

test method 2 of Annex XIII to EU 1322/2014.

Place: Hangzhou, China Date:22 Aug. 2016

Signature:



Name and position in the company: Lai Minjie, General Manager

Declaration of Vibration declaration

The undersigned: Lai Minjie, General Manager

Company name and address of the manufacturer:

ZHEJIANG CFMOTO POWER CO., LTD.

No.116, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou, 311100,

Zhejiang Province P.R.China

Make (trade name of the manufacturer): CFMOTO

Type: CF500UTR-2/CF800UTR-2

Variant(s): CF500UTR-2/CF800UTR-2

Version(s): A

Commercial name(s) (if available): UFORCE 500/UFORCE 800

Category, subcategory and speed index of the vehicle: T1,T1b

Hereby declares that:

For the following vehicle:

The value of the vibration level measured according to Annex XIV to EU 1322/2014 is

Declaration of Vibration declaration

Driver mass		a_{ws} m/s ²	CF500UTR-2/CF800UTR-2	Requirement
59±1kg	T1	Test run 1	1.22	Deviation<10% between test run 1/2 and Arithmetic mean, $a_{ws}<1.25$ m/s ²
	T2	Test run 2	1.21	
	A	Arithmetic mean	1.22	
98±5kg	T1	Test run 1	1.17	Deviation<10% between test run 1/2 and Arithmetic mean, $a_{ws}<1.25$ m/s ²
	T2	Test run 2	1.19	
	A	Arithmetic mean	1.18	

a_{ws} :rms value of the weighted seat vibration acceleration measured during a standard roadway test

Place: Hangzhou, China

Date:22 Aug. 2016

Signature:



Name and position in the company: Lai Minjie, General Manager

WARRANTY

Dear Customer,

Thank you for purchasing a CFMOTO Tractor, 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 two year from the date of the new vehicle purchase from an authorized Zhejiang CFMOTO Power.Co., Dealer. coverage is invoked from the purchase and use of CFMOTO vehicles only within the continental During the warranty period, Zhejiang CFMOTO Power.Co., Ltd. will cover parts and labor costs incurred by an authorized Zhejiang CFMOTO Power.Co., Ltd. , 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 Zhejiang CFMOTO Power.Co., Ltd. , 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. Zhejiang CFMOTO Power.Co., Ltd. , provides warranty coverage for one (1) year on all parts and labor for all of its new CFMOTO Tractor, However, the following coverage, exceptions, and limitations apply to all CFMOTO vehicles:

ALL IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE LIMITED IN DURATION TO THE WARRANTY PERIOD DESCRIBED HEREIN. Zhejiang CFMOTO Power.Co., Ltd. DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply if it is inconsistent with the controlling state law.

This limited warranty excludes failures not caused by a defect in material or workmanship.

This limited warranty does not cover damage due to accidents, abuse or improper handling, maintenance or use. This limited warranty also does not cover any engine that has been structurally altered, or when the vehicle has been used in racing competition.

This limited warranty also does not cover physical damage, corrosion or defects caused by fire, explosions or other similar causes beyond the control of Zhejiang CFMOTO Power.Co., Ltd.

Owners are responsible for performing the scheduled maintenance identified in the owner's manual.

Zhejiang CFMOTO Power.Co., Ltd. may deny warranty claims for failures that have been caused by the owner's or operator's improper maintenance or use, by accidents for which Zhejiang CFMOTO Power.Co., Ltd. has no responsibility, or by acts of God.

Any qualified repair shop or person may maintain, replace, or repair the emission control devices or systems on your vehicle. Zhejiang CFMOTO Power.Co., Ltd. recommends that you contact an authorized Zhejiang CFMOTO Power.Co., Ltd. dealer to perform any service that may be necessary for your vehicle. Zhejiang CFMOTO Power.Co., Ltd. also recommends that you use only pure Zhejiang CFMOTO Power.Co., Ltd. parts.

If you have any questions regarding your warranty rights and responsibilities, please contact the Zhejiang CFMOTO Power.Co., Ltd.

3. EXCLUSIONS FROM WARRANTY COVERAGE. Any Damage resulting from the following acts or circumstances is not covered by the Zhejiang CFMOTO Power.Co., Ltd. , 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 Zhejiang CFMOTO Power.Co., Ltd. , Owner's Manual. Any warranty repairs must be performed exclusively by Zhejiang CFMOTO Power.Co., Ltd. , authorized Dealers. Any warranty work performed by anyone other than an authorized CFMOTO Dealer will not be covered under the Zhejiang CFMOTO Power.Co., Ltd. ,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 Zhejiang CFMOTO Power.Co., Ltd. . dealer, who will then forward the information to Zhejiang CFMOTO Power.Co., Ltd. ;
- 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;

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
- Winch
- Light Bulbs/Fuses
- Body Plastics and Cosmetic Defects

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.

7. CUSTOMER ASSISTANCE. Any questions regarding your CFMOTO vehicle or related products should be directed to an authorized CFMOTO dealer.

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 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 Zhejiang CFMOTO Power.Co., Ltd. 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 Tractor, 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 Zhejiang CFMOTO Power.Co., Ltd. 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.

- 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 Zhejiang CFMOTO Power.Co., Ltd. Warranty Policy.



CFMOTO

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