

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

TABLE OF CONTENTS

Foreword	1
Welcome	
Signal Words	.2
Introduction	5
Vehicle Identification Numbers and Key Information	.6
Specification	.7
Operator Safety 1	12
General Safety Precautions	
Owner Responsibilities	
Potential Hazard Warnings	19
Safety Labels, Locations and Warnings	37
Controls and Features4	12
Primary Controls	42
Secondary Controls	
Vehicle Features	
CVT System	
How To Avoid CVT Drive Belt and Component Failure	64
Dashboard Indicators and Operation	66
Operating Your Vehicle	70

Break-In Period	70
Pre-Ride Inspection	72
Throttle	72
Foot Brake	72
Starting the Engine	73
Shifting the Transmission	74
Safe Operation - Driving Safely	77
Responsibilities of the Operator	77
Practice Exercises	
Operating Your Vehicle	
Hauling and Towing Loads	
Maintenance	94
Severe Use Definition	95
Periodic Maintenance Schedule and Icon Key	97
General Recommended Lubrication	
Pre-Ride Maintenance Checklist	
Break-In Maintenance Checklist	101
Periodic Maintenance Schedule	103
Maintenance Procedures	110
Cleaning and Storage	143

Transporting the vehicle	147
Vehicle Issue Diagnosis	
Engine starter doesn't turn on	
Engine pings or knocks	148
Engine stops or loses power	149
Engine turns over, Fails to start	150
Engine backfires	151
Engine runs irregularly, stalls or misfires	151
EFI Malfunction Indicator Light	153
EPS Malfunction Indicator Light	
Electronic Power Steering (EPS) fault diagnosis and solution	156
Declaration	. 157
Declaration of Drivers exposure to noise level	
Declaration of Vibration declaration	
CFMOTO LIMITED WARRANTY	

FOREWORD

Foreword

Welcome

Thank you for purchasing a CFMOTO vehicle, and welcome to our world-wide family of CFMOTO enthusiasts. Be sure to visit us at www.cfmoto.com for the latest news, new product introductions, upcoming events, and more.

CFMOTO, an international company that specialises in the development, manufacture and marketing of large displacement motorcycles, all terrain vehicles, utility vehicles, and core components (power sports liquid cooling engines, frames, etc). Founded in 1989, CFMOTO is always devoted to the developing routine of independent brand cultivation and independent R&D innovation. Now, CFMOTO products are distributed through more than 2000 companions worldwide for more than 100 countries and areas. CFMOTO is edging into the advanced ranks in the world in the power sports industry, and aims to supply superior products to dealers and fans globally.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance. Information about major repairs is outlined in the CFMOTO Service Manual.

Your CFMOTO dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.

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

Signal Words

A signal word calls attention to a safety message or messages, a property damage message or messages, and designates a degree or level of hazard seriousness. The standard signal words in this manual are WARNING, CAUTION and NOTE or NOTICE.

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual:

This safety alert and icon indicates a potential hazard that may result in serious injury or death.

This safety alert and icon indicates a potential hazard that may result in minor or moderate personal injury and/or damage to the vehicle.

CAUTION

This safety alert without an icon indicates a situation that may result in damage to the vehicle.

NOTE or NOTICE

A note or notice will alert you to important information or instructions

FOREWORD





NEVER:

- Operate without proper training or instruction.
- Operate at speeds too fast for your skill, conditions, or the terrain.
- · Carry multiple passengers, these vehicles are designed for a single passenger only.
- Use ALCOHOL or DRUGS before or while driving this vehicle.
- Overload the vehicle when driving.

ALWAYS:

- Use proper driving techniques to avoid vehicle overturn on hills, rough terrain, and when turning.
- Wear approved, suitable helmet, eyes protection and protective gear for operator and passenger.
- Use safety belt during operation.

FOREWORD READ THE OWNER'S MANUAL FOLLOW ALL INSTRUCTIONS AND WARNINGS

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.

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

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

INTRODUCTION

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.

INTRODUCTION Vehicle Identification Numbers and Key Information

Record your vehicle's identification numbers in the spaces provided. Remove the spare key and store in a safe place. Your key can be duplicated only by mating a key blank with one of your existing keys. If both keys are lost, the complete lock assembly must be replaced.



- Engine identification number:
- 2. Vehicle identification number:_____

SPECIFICATIONS

Specification

ITEM	SPECIFICATION		
	CF500UTR-2	CF800UTR-2	
Length	2922mm		
Width	1488mm		
Height	1864mm		
Front track	1190mm		
Rear track	1180mm		
Ground clearance	258mm		
Min. turning radius	4750mm		
Unladen mass	700kg		
Engine model	191R	2V91W	
Туре	4-stroke,liquide-cooled, 4valves,	4-stroke,liquide-	
	SOHC	cooled,8valves,SOHC	
Bore × stroke	91mm×76.2mm	91mm×61.5mm	
Displacement	495mL	800mL	
Compression ratio	10.3 : 1		
Starting	Electric		
Lubrication	Pressure & spray		

	SPECIFICATION		
ITEM	CF500UTR-2	CF800UTR-2	
Engine oil: Grade	SAE 10W-40 SJ / SAE 5W-40 SJ / SAE 15W-40 SJ	SAE 10W-40 SJ / SAE 5W-40 SJ / SAE 15W-40 SJ Engine oil should be JASO-certfied	
Oil change:	2.9 L	2.44	
Oil change with oil filter replacement Overhaul Oil radiator:	3.0 L	3.4 L 3.5 L	
Oil replenishment after first start	0.5 0.45	0.5	
Oil replenishment after service Rear gear case oil:		0.45	
Grade Capacity:	SAE80W-90 GL-5 0.4L		
Front gear case oil: Grade	SAE80W-90 GL-5		
Capacity: Air filter	0.33 L Paper type		
Fuel: Fuel tank capacity Fuel remaining when low fuel light turns ON	95(RON) or E10 26L ± 0.5L 3.5 L		

SPECIFICATION ITEM **CF500UTR-2** CF800UTR-2 Spark plug: DCPR8E(NGK) Type Spark plug gap 0.8mm ~ 0.9mm Clutch Wet. centrifugal Transmission type CVT + gearbox Shift operation Right hand/L-H-N-R-P Transmission CVT ratio 0.67 ~ 3.02 Low gear 38/15 = 2.533 43/17 = 2.529Gearbox High gear 27/20 = 1.35032/28 = 1.143Reverse 29/14 = 2.07129/13 = 2.230Chassis: Frame type Tubular steel Tires Tubeless Type 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 Pressure Front:80 kPa, Rear: 100 kPa Brakes Hydraulic disc, foot operation Front: Rear: Hydraulic disc, foot operation

SPECIFICATIONS			
ITEM	SPECIFICATION		
ITEM	CF500UTR-2	CF800UTR-2	
Front Suspension:			
Туре	Double swing-arm		
Suspension travel	165 mm		
Shock type	Coil spring/oil damping or coil spring + gas spring/oil damping		
Rear Suspension:			
Туре	Double swing-arm		
Suspension travel	185 mm		
Shock type	Coil spring/oil damping or coil spring + gas spring/oil damping		
Cooling system:			
Preliminary	3.5 L		
Change	2.0 L		
Coolant reservoir capacity	0.68 L		
Electrical system:			
Ignition type	ECU		
Alternator	Permanent magnet, AC		

SFECIFICATIONS		
ITEM	SPECIFICATION	
	CF500UTR-2	CF800UTR-2
Lights:		
Low beam, headlight	H3 12V, 55W × 2	
High beam, headlight	H7 12V, 55W × 2	
Front position light	LED	
Brake/tail light	LED	
Turn signal light	LED	
Battery Capacity	12V 30Ah	

Operator Safety

General Safety Precautions

Failure to respect the warnings contained in this manual can result in serious injury or death. This vehicle is not a toy and can be hazardous to operate. This vehicle handles differently from other vehicles, such as cars. A collision or rollover can occur quickly, even during routine maneuvers like turning or driving over obstacles, if you fail to take proper precautions.

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

Age Restrictions

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under the age of 16. No passengers under age 12 are allowed on CFMOTO vehicles designed to carry a passenger.

Know Your Vehicle

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

Equipment Modifications

CFMOTO is concerned with the safety of our customers and for the general public. Therefore, we strongly recommend that consumers do not install on a vehicle, any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of body injury. The warranty on your vehicle is terminated if any unapproved accessory 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 accessory equipment which may change the handling and performance characteristics of the vehicle include, but are not limited to; mowers, plow blades, oversize tires, sprayers, large racks, lift kits and trailers. Use only approved accessories, and familiarize yourself with their function and effect on the vehicle.

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 explosive. 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:

- Strictly adhere to proper fueling procedures
- 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.
- 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 shortly after operation to avoid burns.

Owner Responsibilities

Be Qualified and Responsible

Read this Owner's Manual and the warning decals on this vehicle carefully. Take a safety training course on open areas if available. Practice at low speeds. Higher speeds require greater 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. Operators must 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 able to firmly plant their left foot on the footrest. Operators may be required to have a proper driver's license in accordance with local laws.

Carrying a 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 against the backrest with the 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 their ability or judgment is 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 or cars. A collision or rollover can occur quickly, during abrupt maneuvers such as 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 operate at a speed that is proper for the terrain, visibility, and operating conditions, and your experience.
- 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 rollover.
- 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 cargo is well distributed in the cargo box. Otherwise, it could change the center- of gravity and may result in rollover.

Roll Over Protection System (ROPS)

- The ROPS on this vehicle meets the performance requirements of ISO 3471:2008. The ROPS can limit intrusions of outside objects and reduce your risk of injury in rollovers.
- Always follow all safe operating practices outlined in this manual to avoid vehicle rollover.
- Do not put your hands and/or feet outside of the vehicle when driving. The ROPS will not protect you from injury in all rollovers.
- Always have your authorized CFMOTO dealer thoroughly inspect the ROPS if it ever becomes damaged in any way. Occupant Restraint System
- This vehicle is designed to carry one driver and one passenger, both wearing proper protective gear.
- The driver and passenger must latch the side doors and wear the seat belts at all times when riding.

Terrain Conditions

- 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.
- 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 deep 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 while driving slowly to let friction dry out the brakes.
- Always ensure to properly park the vehicle on the flattest terrain section available. Put the shift lever in PARK, stop the engine, and remove the 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. Always keep limbs inside the ROPS cage.

Potential Hazard Warnings

POTENTIAL HAZARD:

Operating this vehicle without proper instruction.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Failure to follow the age recommendations for this vehicle.

WHAT CAN HAPPEN:

Severe injury and/or death could occur if a child under the minimum age recommendation operates this vehicle.

Even though a child may be within the recommended age group for operating, he/she may not have the skills, abilities, or judgment needed to operate safely and could be susceptible to accident or injury.

HOW TO AVOID THE HAZARD:

Operation is prohibited for anyone under 16 years of age.

POTENTIAL HAZARD:

Carrying more passengers than the rated capacity.

WHAT CAN HAPPEN:

A passenger not seated in the vehicle could be ejected from the vehicle unexpectedly or make contact with moving components, both of which can result in severe injury or death. Carrying 2 or more passengers is prohibited.

HOW TO AVOID THE HAZARD:

Never allow multiple passengers.

AWARNING POTENTIAL HAZARD:

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

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Operating the vehicle after consuming alcohol or drugs.

WHAT CAN HAPPEN:

Consumption of alcohol and/or drugs could seriously affect operator judgment. Reaction time may be slower and operator balance and perception could be affected. Consumption of alcohol and/or drugs before or while operating a vehicle could result in an accident causing severe injury or death.

HOW TO AVOID THE HAZARD:

Never consume alcohol or drugs before or while operating the vehicle.



POTENTIAL HAZARD:

Operating at excessive speeds.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Attempting wheelies, jumps and other stunts.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

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

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

Always inspect your vehicle before each use to make sure it's in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the owner's manual.

POTENTIAL HAZARD:

Extending arms, hands, or legs outside the ROPS bars of the vehicle during operation.

WHAT CAN HAPPEN:

Severe injury can occur to arms, hands, or legs if the vehicle overturns or rolls over in an accident.

HOW TO AVOID THE HAZARD:

Always keep arms, hands, or legs inside the vehicle, hands on the steering wheel or hand grip, and keep both feet on the footrests of the vehicle during operation.

POTENTIAL HAZARD:

Failure to use extra caution when operating on unfamiliar terrain.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Turning improperly.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

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

WHAT CAN HAPPEN:

Operating on excessively rough, slippery or loose terrain could cause loss of traction or loss of control, which could result in an accident or overturn.

HOW TO AVOID THE HAZARD:

Do not operate on excessively rough, slippery or loose terrain until you've practiced and learned the skills necessary to control the vehicle on such terrain. Always use extra caution on rough, slippery or loose terrain.

POTENTIAL HAZARD:

Climbing excessively steep hills or climbing hills improperly.

WHAT CAN HAPPEN:

Improper hill climbing could cause loss of control or overturn.

HOW TO AVOID THE HAZARD:

Never operate on hills too steep for the vehicle or for your abilities. Practice on smaller hills before attempting large hills. Always check the terrain carefully before ascending any hill. Never climb hills with excessively slippery or loose surfaces. Never open the throttle suddenly while traveling uphill. The vehicle could flip over backwards. Never go over the top of any hill at high speed. An obstacle, a sharp drop, another vehicle, or person could be on the other side of the hill.

POTENTIAL HAZARD:

Traveling down excessively steep hills.

WHAT CAN HAPPEN:

Improper downhill travel could cause loss of control or overturn.

HOW TO AVOID THE HAZARD:

Never operate on hills too steep for the vehicle or for your abilities. Practice on smaller hills before attempting large hills. Always check the terrain carefully before attempting any hill. Never descend hills with excessively slippery or loose surfaces.

NOTE:

Always check the terrain carefully before descending a hill. Never travel down a hill at high speed. Avoid traveling down a hill at an angle. Travel straight down the hill when possible.

POTENTIAL HAZARD:

Improperly crossing hills and turning on hills.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

WHEN CROSSING THE SIDE OF A HILL:

Always follow proper procedures as described in the owner's manual. Avoid hills with excessively slippery or loose surfaces.

POTENTIAL HAZARD:

Stalling, rolling backwards while climbing a hill.

WHAT CAN HAPPEN:

The vehicle could overturn.

HOW TO AVOID THE HAZARD:

Maintain a steady speed when climbing a hill.

IF ALL FORWARD SPEED IS LOST:

Close the throttle. Apply the brake. When fully stopped, shift the gear selector to the park position.

IF THE VEHICLE BEGINS ROLLING:

Never apply engine power. Carefully apply the foot brake while rolling backwards. When fully stopped, keep the brake applied, shift the gear selector to the parking position, and determine the best way to safely change direction.

POTENTIAL HAZARD:

Improperly operating over obstacles.

WHAT CAN HAPPEN:

Operating over obstacles could cause loss of control or overturn.

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Skidding or sliding.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Overloading the vehicle or carrying/towing cargo improperly.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

Never exceed the stated load capacity for this vehicle.

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

POTENTIAL HAZARD:

Operation the vehicle through deep or fast-flowing water.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

Avoid operating through deep or fast-flowing water. If it is unavoidable to enter water that exceeds the recommended maximum depth, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes. Wet brakes may have reduced stopping ability. Always test the brakes after leaving the water. If necessary, apply the brakes several times while driving slowly to dry out the pads

POTENTIAL HAZARD:

Improperly operating in reverse.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

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

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Operating the vehicle with improper modifications.

WHAT CAN HAPPEN:

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

HOW TO AVOID THE HAZARD:

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

POTENTIAL HAZARD:

Operating on frozen bodies of water.

WHAT CAN HAPPEN:

Severe injury or death can result if the vehicle falls through the ice.

HOW TO AVOID THE HAZARD:

Never operate the vehicle on a frozen body of water.

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

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

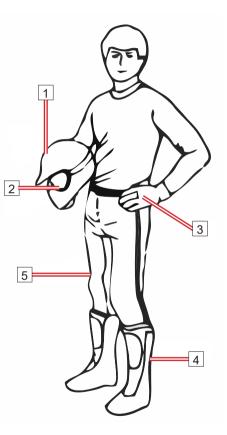
Safe operation of this vehicle requires good judgment and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturn and loss of control, which could result in severe injury or death.

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

Safe Riding Gear

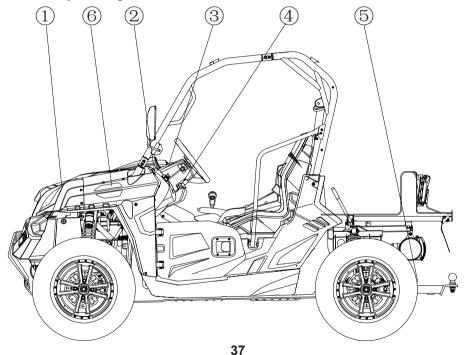
Always wear clothing suited to the type of riding. Operating this vehicle requires special protective clothing for comfort and to reduce the chance of injury:

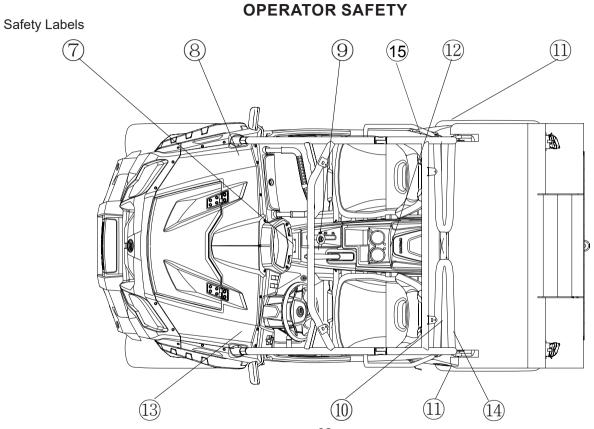
- 1. A helmet is the most important piece of protective gear for safe riding. An approved helmet can prevent a severe head injury.
- 2. Eye protection. A pair of goggles or a helmet face shield offers the best protection for your eyes. They should be kept clean and be a shatterproof design. Do not depend on sunglasses for proper eye protection.
- 3. Off-road style gloves with knuckle pads are the best for comfort and protection.
- 4. The best footwear is a pair of strong over-the-calf boots with heels, like moto-cross boots.
- 5. Always wear long pants and long sleeve shirts to protect arms and legs. Riding pants and a jersey that have kneepads and shoulder pads provide the best protection.

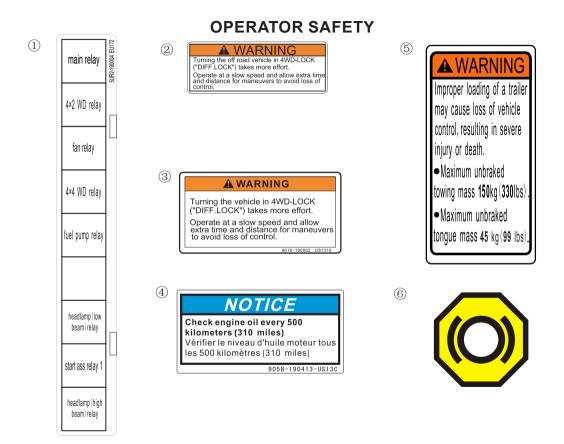


Safety Labels, Locations and Warnings

Warning labels have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. If a decal becomes illegible or comes off, contact your dealer to purchase a replacement. Read and follow the safety warnings in this manual.







ALWAYS

(7)

(9)

- 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 APPROVED HELMET AND PROTECTIVE the side of an incline increases the risk of overturn. GEAR

WARNING

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 slipperv surfaces that could cause the vehicle to overturn. ALCOHOL



(+

make sharp, high- speed turns- the vehicle could roll over or go out of control.

OCATE AND READ THE OWNER'S MANUAL

AWARNING 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: 14.5 psi(100 kPa)





WARNING

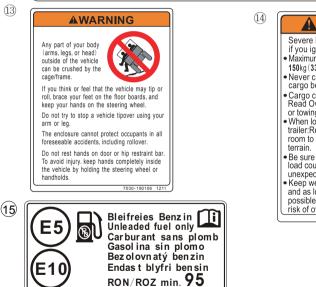
Improper use can result in Severe INJURY or DEATH.

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.

(12)

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





Controls and Features

Primary Controls

Steering Wheel - 1

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

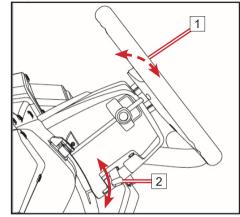
Tilt Lever - 2

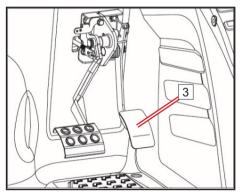
A tilt lever feature allows the steering wheel to be adjusted to fit the operator. Pull down on the lever and adjust the steering wheel tilt angle for comfort. Push up on the lever to lock the steering wheel tilt angle.

Throttle Pedal - 3

The throttle pedal is located to the left of the brake pedal. The throttle pedal controls engine rpm and vehicle speed. To control vehicle speed, press on the throttle pedal with your right foot. Always check the pedal function before driving.

NOTE: The throttle pedal has no adjustments to compensate for throttle cable freeplay and wear. Contact your dealer for adjustments to the throttle cable.





Brake Pedal - 4

The brake pedal is located to the left of the throttle pedal. Release the throttle pedal and press the brake pedal with your foot to slow or stop the vehicle.

Shift Lever - 5

The shift lever is located to the right of the driver's seat. The shift lever is used to change the transmission gear selection:

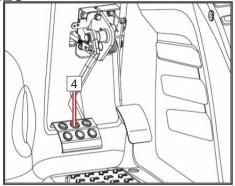
Shift Button - Press the shift button (A) before shifting the gear. L - Low Gear. B The low speed range of the gearbox. It allows the vehicle to move slowly with maximum torque at the wheels.

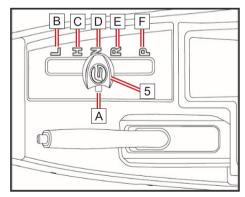
CAUTION: To avoid damage to the CVT system, always use low gear for constant slow travel, to pull a trailer, carry heavy cargo, go over obstacles, or drive up and down hills.

H – High Gear. \bigcirc The high speed range of the gearbox. It is the normal driving speed range. It allows the vehicle to reach its maximum speed.

N – Neutral. D In neutral position the engine power take-off is disengaged.

 \mathbf{P} – Park. The park position $\overline{\mathbf{F}}$ locks the gearbox to help prevent vehicle movement.





NOTE:

In reverse operation, the engine's RPM is limited, thus limiting the vehicle reverse speed under 15.5 mph (25 km/h).

Use extreme caution driving downhill in reverse. Gravity can increase the vehicle speed above the set limited reverse speed.

Always shift to PARK (P) position when the vehicle is not in operation. The vehicle can roll if the shift lever is not set to 'P'. Always use the auxiliary hand brake as an additional precaution to prevent vehicle movement.

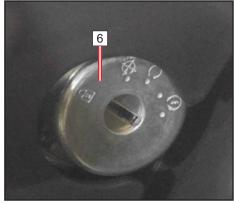
Secondary Controls

Ignition Key Switch / Engine Stop Switch - 6

The ignition key switch / engine stop switch is located on the lower right side of the steering column.

This switch has 3 positions. Use the key to control the ignition switch and start the engine. When the key is in the position of "LOCK", it can be removed from the ignition switch and the steering wheel will lock.

WARNING: Do not keep the ignition key switch in 'START' for more than 10 seconds.



	OFF 🕅 Position (1)	Engine is stopped. All electrical except the winch motor and DC outlets are disabled. The key can be removed
Ignition Key Switch	ON () Position (2)	Engine is ready for work. The electrical system of the vehicle is activated.
	START	Turn ignition key to "()" to start the engine. Ignition key returns to "On " when released.

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.

Speed Limit Override Switch - 7

The engine is normally speed limited when operating in 4WD-LOCK. If conditions require more engine power:

- Release the throttle and press the button to override the speed limiting function. The override indicator light will come on.
- Reapply the throttle while this button is pressed.
- Releasing the button restores the speed limiting function.

NOTE: Speed limit override is not available in 2WD.

Pressing the override button while the throttle is open in speed limiting mode may cause sudden acceleration, resulting in a loss of control, severe injury, or death. Always release the throttle before pressing the override button.

Hazard Switch - 8

When using the hazard switch function, the front and rear turn signal lights will flash. Also, the hazard switch indicator light in the dashboard will light up.



Mechanical Speed Limiter - 9

The multi-function lever is located on the left side of the steering column.

Main Light Switch

The main light switch consists of 4 positions. Turn the barrel of the lever to select the following functions:

OFF	Head lights and tail lights are 'OFF' when the switch is turned to this position.	
Same	Position / tail lights 'ON' and dead lights 'OFF' when th switch is turned to this position.	

Low Beam / High Beam

	Low Beam is selected when the switch is turned to this position.
D	High Beam is selected when the switch is turned to this position.

NOTE:

Ignition key must be turned to 'ON' before operating head lights.

CAUTION

Do not use the headlights with the engine turned off for more than 15 minutes. The battery may discharge to a point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.



Horn Button

Press the button ', The horn will sound.

Turn Signal Switch

企	Right turn is indicated when the multifunction lever is moved upward.	
П	Left turn is indicated when the multifunction lever is moved downward.	

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



2WD / 4WD Switch - 10

This vehicle is equipped with an on-command "2WD"/"4WD" and front diff-lock "LOCK"/"4WD" switch on the left side of the dashboard. Select the appropriate drive mode according to terrain and conditions:

- **Two-wheel drive (2WD):** Power is supplied to the rear wheels only.
- Four-wheel drive (4WD): Power is supplied to the rear wheels, and to the front wheels.
- Four-wheel drive with diff-lock (4WD-LOCK): Power is supplied to the rear and front wheels and the front differential is locked. Unlike 4WD mode, all the wheels turn at the same speed. Speed is limited to 22 mph (35 km/h).





CAUTION

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

On-Command 2WD / 4WD / 4WD-LOCK Switch Operation

To change from 2WD to 4WD: Stop the vehicle. Verify the mode lever is moved to the left, and then press the switch to "4WD". The 4WD indicator " a " will display in the dashboard.

To change from 4WD to 2WD: Stop the ATV. Verify the mode lever (A) is moved to the left, and then depress the switch to "2WD". The 2WD indicator" •• " will display in the dashboard.

To change to 4WD-LOCK: Stop the ATV. To lock the front differential while in 4WD mode, verify the mode lever (A) is moved to the right, and then depress the switch (B) to "LOCK". The 4WDLOCK indicator " X " will display in the dashboard.

NOTE : 4WD-LOCK OPERATION:

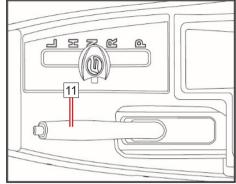
- Steering will require greater effort in 4WD-LOCK mode. This is normal.
- When the switch is set to "LOCK", the front diff-lock indicator light will flash until the front diff is locked.
- If the indicator light is flashing, turning the steering left and right will help the front gear locking mechanism to engage.
- Riding before the front differential lock is properly engaged (e.g., the indicator light is flashing) will cause the engine speed to be limited until engagement is complete.
- When the vehicle is in 4WD-LOCK, the maximum traveling speed is limited to 22 mph (35 km/h).
- If conditions require full engine power to be available, press the override switch on the dashboard to disable the 4WD-LOCK speed limiter.

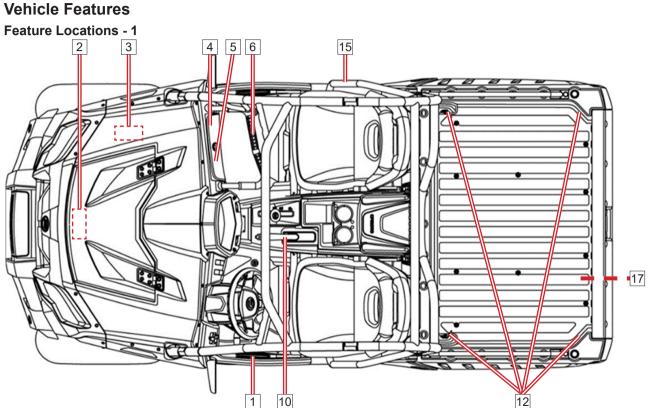
Hand Brake - 11

This vehicle is equipped with an auxiliary hand brake, which is located to the right of the driver's seat. Pull back on the lever to apply the rear brakes and prevent the vehicle from rolling when parked on an incline.

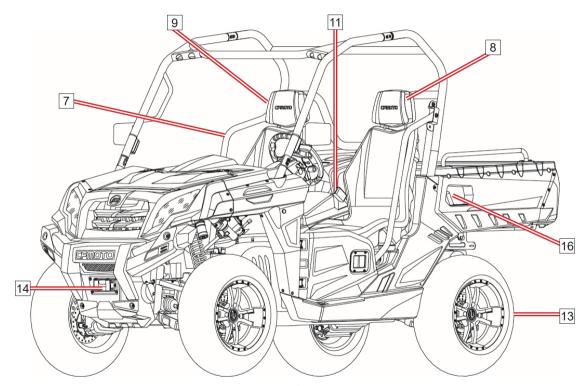
To release the hand brake, pull up slightly and press the release button at the end of the lever, then push the lever down to its original position.

Never depend on the transmission parking feature alone if the vehicle is parked on a hill. Always apply the hand brake and block the wheels on the downhill side of the vehicle to prevent movement. It is recommended to park the vehicle on level ground.





Feature Locations – 2



Feature Descriptions

Footrests - 1

This vehicle is equipped with driver and passenger footrests to allow firmly planting of feet on the vehicle floor, which helps minimize the risk of leg or foot injury and maintain proper body position while riding. Always wear appropriate footwear.

Front Access Panel and Storage Compartment - 2

The front of the vehicle is equipped with a front panel release lever to access maintenance items and the front storage compartment. Pull the release lever to the left to open the access panel. The left side storage compartment is typically used to store the tool kit and light objects. The capacity is 5.56 lb. (2.5 kg).

Tool Kit- 3

A tool kit with basic tools is provided. It is typically stored in the front storage <u>compartment</u>.

Glove Box - 4

The vehicle is equipped with a closed glove box made to carry the winch controller and light objects. The capacity is 2.5 kg.

Oil fill funnel and hose

This vehicle is equipped with an oil fill funnel and hose for maintenance, which are stored under the front access panel on the driver's side.

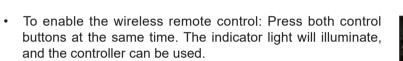


Winch Cable Controller and Power Port - 5

This vehicle comes with a winch cable controller, which plugs into the power port in the glove box.

Wireless Winch Remote Control

This vehicle is equipped with a wireless remote control for operation of the winch system. The wireless remote control is typically stored in the dashboard glove box:



• To disable the wireless remote control: Press both control buttons at the same time. The controller and indicator light will turn off.

Wired Winch Cable Controller and Power Port

This vehicle is equipped with a wired winch controller, which can be designated for use if the wireless winch remote control is not working. The cable control power port is located inside the glove box.





Passenger Handhold - 6

The passenger must grasp the handhold securely during riding. No part of the body should be outside of the cab to prevent possible injury.

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

Shoulder Guards - 7

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

Driver Seat - 8

The driver's seat offers fore and aft adjustment. To adjust the seat, turn the lever to unlock it. Release the lever to lock the seat into desired position. A pull strap at the back of the seat allows the seat to tilt forward for maintenance.

Passenger Seat - 9

The passenger seat is not adjustable. A pull strap at the back of the seat allows the seat to tilt forward for maintenance.

Hand Brake - 10

Press the release button and pull up lever to engage the hand brake. Press the release button and push down to disengage the hand brake before driving.

Seat Belts - 11

This vehicle is equipped with 3-point seat belts to help protect the driver and passenger in the event of collisions, rollovers or tip-overs and to help keep occupants in the cab. The seat belt indicator light will flash if the seat belt is not fastened during driving.

Anchoring Hooks - 12

4 anchoring hook points are located inside the cargo area to secure cargo inside the cargo box.

Towing - 13

This vehicle is equipped with a hitch receiver for towing trailers. Please consult with your dealer about towing, the use of trailers, and available accessories for connecting a trailer to the vehicle.

Winch - 14

This vehicle is equipped with a 3000-lb winch. A wireless remote control and a standard winch controller is located in the glove compartment. The winch controller power port is located on the right side dashboard inside the glove box. To preserve battery power, only operate the winch while the engine is running. Please refer to your winch manual for further information or consult with your dealer on the use of the winch before using your vehicle.

GENERAL SAFETY PRECAUTIONS REGARDING THE USE OF WINCH

AWARNING

Moving Part Hazards

To prevent serious injury and property damage:

- Do not operate or install winch without reading and understanding these instructions and the Basic Guide to Winching Techniques.
- Keep hands clear of wire rope, hook and fairlead opening during operation and when spooling.
- Use supplied hook strap for spooling wire rope.
- Stand clear of wire rope and load during operation.
- Keep others away.
- Inspect winch installation and wire rope condition before operating winch
- Do not use as a hoist.
- Do not use to move persons.
- Do not exceed winch's rated capacity.
- Never touch wire rope or hook while in tension.
- Be certain the anchor you select will withstand load.
- Never wrap wire rope back onto itself. Use a choker chain or tree trunk protector on the anchor.

- Prior to initiating winching operation be sure any element which can interfere with safe winching is removed.
- Do not disengage clutch if winch is under load or wire rope is in tension.
- Take your time. Sloppy rigging causes accidents.
- The wire rope must always spool onto the drum as indicated by the drum rotation label on the winch.

To avoid injury and property damage:

- Do not use winch to secure a load during transport.
- Do not submerge in water.
- Do not use to tow other vehicles.
- Wear heavy leather gloves when handling the wire rope.
- Never winch with less than 5 wraps of wire rope around the drum.
- Caution should be used if the vehicle is tied down during a winching operation. This may lead to damage to the frame.
- Before winching, inspect remote control lead for damage.

Fuel Tank Fill Cap - 15

The fuel tank fill cap is located on the passenger side of the vehicle near the passenger seat. To fill the tank, grasp the fuel cap firmly, then turn counter-clockwise and remove it. Reinstall the fuel cap securely after a fuel tank fill is completed. The fuel tank capacity is 6.9 gal. (26L).

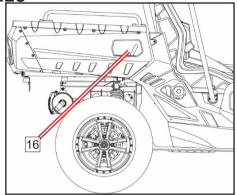
Fuel Minimum Octane Rating and Safety Warnings

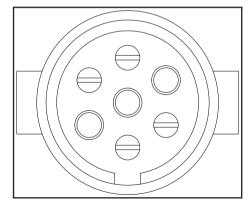
The recommended fuel for your vehicle is 95 Octane minimum, premium or mid-grade fuel (a maximum blend of 10% ethanol is allowed). Non-oxygenated (ethanol-free) fuel is recommended for best performance in all conditions.

- Gasoline is highly flammable and explosive under certain conditions.
- Allow the engine and exhaust system to cool before filling the tank.
- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped, and outdoors or in a well ventilated area.
- Never carry a plastic container with gasoline in the cargo area while riding. Static electricity between the cargo area and container could cause a spark.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed, or where gasoline is stored.
- Do not overfill the tank. Do not fill to the tank neck.
- If gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time.
- The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.

Cargo Box and Tilt Feature - 16

Refer to the safety decals on the cargo box for load information. The cargo box has a release handle on each side that can be used to tilt the box for maintenance or to dump material.





Trailer Power Socket - 17

This vehicle is equipped with 7-pin trailer power socket, located under the rear cargo box. The socket wires are configured to this standard as shown in the image provided . An accessory trailer power converter is required for trailers that do not have a 7-pin connector. Contact your dealer for more information.

Extra Vehicle Features

12 Volt Accessory Power

Auxiliary 12Vdc power outlets (arrows) are provided on the right and left side of the dashboard for operating accessories such as hand-held spot lights and charging electronic devices. Please consult with your dealer on the use of powered accessories with your vehicle.



Brake Fluid Reservoir and Level Indicator

The brake master cylinder reservoir level can be viewed under the left side wheel well. Check the brake master cylinder fluid level before each use of the vehicle. If the fluid level is lower than the "low" mark, determine the cause or refill with brake fluid as necessary.

NOTE:

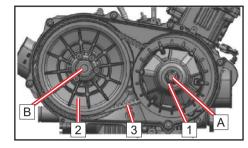
When checking the fluid levels, the vehicle must be on level ground. If the fluid level is lower than the "lower" mark, add DOT4 brake fluid. Do not overfill.

An over-full master cylinder may cause brake drag or brake lockup, which could result in an accident causing serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the drop of boiling temperature of the brake fluid, which can lead to early brake fade and the possibility of accident or severe injury. After opening a bottle of brake fluid, always discard any unused portion.

CVT System

This vehicle has a Continuously Variable Transmission (CVT) system that utilizes a drive belt and clutch pulleys to automatically vary transmission drive ratios, allowing infinite variability between the highest and lowest vehicle speeds with no discrete steps or shifts. The CVT system consists of a primary clutch $\boxed{1}$, which is an advanced form of centrifugal clutch that is mounted to the engine crankshaft \boxed{A} . If equipped, the primary clutch may also contain a one-way bearing that creates an engine braking feature to slow the vehicle without having to use the brakes.



The secondary clutch 2 is mounted to the input shaft of the transmission B and serves two functions; As a "slave" pulley to the primary clutch, and to provide a torque sensing element that shifts drive ratios.

The drive belt 3 is a heavy duty V-belt that connects the engine and transmission clutch pulleys.

A CVT housing and cover encloses the clutches and belt assembly. There are inlet and outlet cooling ducts that route air to cool the components, and they should be regularly inspected.

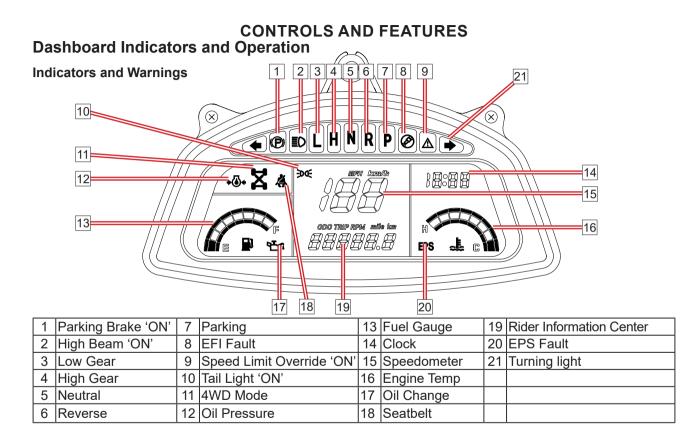
The CVT components do not contain any user maintenance items. Contact your dealer for service.

CONTROLS AND FEATURES How To Avoid CVT Drive Belt and Component Failure

CVT clutch and belt life can be dramatically extended by avoiding these common operating mistakes:

Causes CVT damage	Solution
Attempting to load the vehicle onto a truck bed or tall	Shift transmission to low gear during loading of the
trailer in high gear.	vehicle to prevent belt burning.
Starting out on a steep incline in high gear.	When starting out on steep inclines, use low gear.
Constant driving at low RPM, driving at just	Low gear is highly recommended for cooler CVT
above clutch engagement RPM, or at low speed	operating temperatures and longer component
(approximately 3 mph ~ 6 mph [5 km/h ~ 10 km/h]) in	life. Drive at a higher speed or use low gear more
high gear.	frequently.
Insufficient warm-up of CVT exposed to low ambient	Warm the engine before driving, the CVT drive belt
temperatures	will become more flexible and prevent belt burning.
Slow throttle and easy CVT engagement.	Use the throttle with purpose and effectively for
	efficient CVT clutch engagement.
Towing/pushing at low RPM/low ground speed.	Use low gear only.
Utility use/plowing snow, dirt, etc.	Use low gear only.
Heavy vehicle load operating at low speed	Use low gear only.

Causes CVT damage	Solution
Stuck in mud or snow.	Shift the transmission to low gear, and carefully use fast, aggressive throttle application to engage CVT.
	WARNING: Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position.	Shift the transmission to low gear, and carefully use fast, brief, aggressive throttle application to engage the CVT.
	WARNING: Excessive throttle may cause loss of control and vehicle overturn.
Belt slipping from water or snow ingestion into the CVT system.	Drain the water from the CVT housing and dry the CVT if possible, or contact your dealer.
Overheating of the CVT components causes malfunction.	Contact your dealer for inspection and repair of the CVT components.



Indicators and Warnings

- 1 Hand brake 'ON'. Illuminates when the hand brake lever is pulled.
- 2 High Beam 'ON'. Illuminates when the headlight switch is in this position.
- 3 'L'= Low Gear Position. This indicator displays when the transmission is in Low.
- 4 'H'= High Gear Position; This indicator displays when the transmission is in High.
- 5 'N'= Neutral Position; This indicator displays when the transmission is in Neutral.
- 6 'R'= Reverse Position; This indicator displays when the transmission is in Reverse.
- 7 'P'= Parking Position; This indicator displays when the transmission is in Park.
- 8 EFI Fault. This indicator light flashes when a fault occurs in the Electronic Fuel Injection system.
- 9 Speed Limit Override 'ON'. This indicator light comes on when pressing the override switch. Always exercise caution when using the override button.

10 - Tail Light 'ON'. This indicator displays when the main headlight switch is set to this position.

11 - 4WD Indicator. This dashboard section corresponds to the drive method chosen. The front differential gear case contains the synchronizing component that signals the display.

12 - Fuel Gauge. This dashboard section displays the current gas remaining in the tank. 'F' indicates full. 'E' indicates stand-by fuel. When the indicator enters the red area, the fuel remaining is approximately 3.5L (.92 gal). Fuel must be added as soon as possible.

13 - EFI Fault. This indicator light displays when a fault occurs in the Electronic Fuel Injection system.

14 - Clock. This dashboard section can be adjusted to the correct time using the right below the dashboard.

15 - Speedometer. This dashboard section can be toggled to display the vehicle speed in Kilometers per hour (Km/h) or Miles Per Hour (MPH).

16 - Engine Temperature. This dashboard section displays the current coolant temperature, C is low temperature, H is high temperature. Both over-low and over-high are abnormal. Idle the vehicle to warm the engine when it's too cold, and park the vehicle when it's too hot to prevent the coolant from boiling. Keep the coolant temperature in a normal range.

17 - Oil Change Reminder. This indicator displays when the pre-programmed time limit has been reached for oil change service.

18 - Seatbelt Reminder. This indicator displays when the seat belt is not fastened.

19 - Rider Information Center. This dashboard section can be toggled using the left 'SEL' button to display the accumulated distace traveled in miles / kilometers; '**ODO**' - The accumulated vehicle distance traveled , '**TRIP**' - The trip distance traveled , '**RPM**'- The engine speed in Revolutions Per Minute (RPM) , '**H**' - The engine hour meter records the engine running time, '**V**' - Battery voltage, 'L-I-g-H—5' - Dashboard brightness (5 levels).

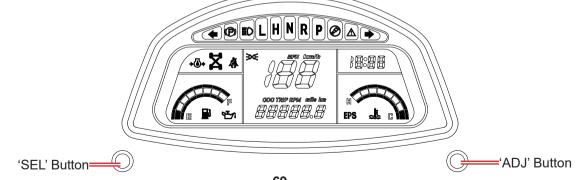
20 - EPS Fault. This indicator light flashes when a fault occurs in the Electronic Power Steering system.

21 - Turning light. When switch turns to right turning light position, the indicator is on.

68

Nagivation / Settings / Adjustments

Item	Display	SEL / ADJ Button	Result	
Metric / Standard Toggle	Speed/Distance	Long Press SEL Button	Metric \leftrightarrow Standard Values	
Distance/RPM/Engine Hour/ Item Toggle	Engine Hour Voltage Brightness Setting	Short Press SEL Button	ODO→TRIP→RPM→H→ V→L-I-g-H5→ODO	
Trip Distance Reset	Trip Distance	Long Press SEL Button in Odometer mode	Distance reset to zero	
Clock - Hours Adjustment	Time	Short Press ADJ Button	Incremental 1-12	
Clock - Minutes Adjustment	Time	Long Press ADJ Button	Incremental 00-59	



CONTROLS AND FEATURES Operating Your Vehicle

Break-In Period

The break-in period for a new engine is very important. Careful treatment of a new engine at the beginning of ownership will result in more efficient performance and longer life. Perform the following procedures carefully:

- 1. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
- 2. Place the vehicle on a level surface.
- 3. Fill the fuel tank with gasoline.
- 4. Check the engine oil level. Add the recommended oil if necessary to maintain the oil level between the minimum and maximum indicators on the dipstick.
- 5. Position yourself in the operating position on the vehicle, fasten the seatbelt and safety nets, and start the engine. Allow the engine to idle for a short period before operating.
- 6. Press the foot brake, select the desired gear, and then release the foot brake.
- Apply throttle. Drive slowly at first, varying throttle positions not more than ½ throttle for 10 hours or 100 miles, then another 10 hours or 100 miles of not more than ¾ throttle (whichever interval arrives first). Do not operate at sustained idle or sustained wide open throttle.
- 8. Do not pull or carry any heavy loads during the break-in period.
- 9. Periodically check coolant level, controls, etc. along with the items outlined in the periodic maintenance chart.
- 10. At the end of the break-in period, change the oil and filter (20hrs or 200 miles / 320km).

During the break-in period:

- Do not load or tow cargo.
- Do not operate at sustained full throttle. Damage to engine parts or decrease engine life may result if excessive wide open throttle is used during the first 20 hours of use.
- Do not run engine with throttle over 1/2 open during the first 10 hours (or 100 miles/160km) of use.
- Do not run engine with throttle over 3/4 open during the first 10 to 20 hours (or the second 100 miles/160km) of use.
- Use of any oil other than those recommended may cause serious engine damage. CFMOTO recommends the following oil types:
 - 500cc Engines 5W-40 oil. Changing engine oil viscosity to 10W-40 or 15W-40 due to hot environments is acceptable.
 - 800cc and 1000cc Engines 10W-40 oil. Changing engine oil viscosity to 5W-40 due to extreme cold environments or 15W-40 due to hot environments is acceptable.
- Reference the chart below for ambient temperature and viscosity choice.

NOTE: 800 engines contain a wet clutch that requires JASO-certified engine oil, commonly sold as motorcycle engine oil. **Recommended Engine Oil Viscosity**

				15W-40				
Oil Viscosity				10W-40				
VISCOSILY				5W-40				
F°	-22	-4	14	32	50	68	86	104
C°	-30	-20	-10	0	10	20	30	40

Pre-Ride Inspection

Before each use of the vehicle, a best practice is to complete the pre-ride inspection checklist.

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

Throttle

Before starting the engine, check the throttle pedal to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the pedal is released. Regulate the speed of the vehicle by varying the throttle position. Because the throttle is spring-loaded, the vehicle will decelerate and the engine should return to idle speed any time your foot is removed from the throttle pedal.

Foot Brake

Before operating the vehicle, push down on the pedal to apply the front and rear brakes. When pressed, the lever or pedal should feel firm. A soft brake pedal would indicate a possible fluid leak or low master cylinder fluid level, which must be corrected before riding. Contact your dealer for proper diagnosis and repairs.

Starting the Engine

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

Starting a cold engine

- 1. Verify the gear selector is shifted to the Parking or Neutral position.
- 2. Apply the foot brake.
- 3. Turn the engine stop switch and main key switch to " \bigcirc " (ON)
- 4. Verify the throttle is completely closed, then turn the key start switch.
- 5. Once the engine starts, continue to warm the engine for a short period before operating the vehicle.

NOTE:

Do not activate the starting system more than 10 seconds on each attempt. If the engine fails to start, release the start switch, pause a few seconds before the next attempt, then try the start switch again. Each attempt should be as short as possible to preserve battery energy.

The engine can be started in any gear if the brake is applied. However, a best practice is to shift into Neutral or Park before starting the engine. If the neutral indicator light on the dashboard does not come on when the gear selector is in the neutral position, contact your dealer to inspect the indicator electrical circuit or adjust the gear shifting system.

OPERATING YOUR VEHICLE

CAUTION

Allow the engine to warm up for a short period before operating the vehicle. Operating the vehicle immediately after starting could cause engine damage.

Shifting the Transmission

CAUTION

To avoid transmission damage, return the throttle to the closed position, stop the vehicle, and apply the foot brake before shifting.

NOTE:

Low gear is the preferred transmission gear selection for all forward motion other than prolonged high speed travel.

Shifting out of Park

- 1. Verify the throttle is closed.
- 2. Apply the foot brake and press the gear selector button.
- 3. Shift to the desired gear by moving the gear selector along the shift guide.

Shifting: Neutral to High Gear

- 1. Verify the throttle is closed and the vehicle is stopped completely.
- 2. Apply the foot brake.
- 3. Shift to 'H' by moving the gear selector along the shift guide.

OPERATING YOUR VEHICLE

Shifting: High Gear to Low Gear

- 1. Verify the throttle is closed and the vehicle is stopped completely.
- 2. Apply the foot brake.
- 3. Shift to 'L' by moving the gear selector along the shift guide.

Shifting: Low Gear to High Gear

- 1. Verify the throttle is closed and the vehicle is stopped completely.
- 2. Apply the foot brake.
- 3. Shift to 'H' by moving the gear selector along the shift guide.

Shifting: to Reverse Gear

- 1. Verify the throttle is closed and the vehicle is stopped completely.
- 2. Apply the foot brake and press the gear selector button.
- 3. Shift to 'R' by moving the gear selector along the shift guide.
- 4. Check behind you for people or obstacles, then release the rear brake pedal.
- 5. Apply the throttle lever gradually and continue to watch behind you while moving backward.

Before shifting into reverse, make sure there are no obstacles or people, and the area is safe behind you. When it is safe to proceed, go slowly.

Avoid excessive throttle operation while in speed limit mode, as it may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage.

OPERATING YOUR VEHICLE

Shifting: to Park

- 1. Verify the throttle is closed and the vehicle is stopped completely.
- 2. Apply the foot brake and press the gear selector button.
- 3. Shift to 'P' by moving the gear selector along the shift guide. Shake the vehicle forward and backward to verify that parking is engaged.

NOTE:

- The gear shift indicators should display corresponding to the actual gear position, if the indicator does not display, ask your dealer to inspect the vehicle electrical circuit or adjust the gear shifting system.
- Due to the synchronizing mechanism in the engine, an indicator may not display until the vehicle starts moving.
- Do not use high gear for continuous slow speed travel or towing, as this can lead to excessive heating of the clutch system, which may damage components.

SAFE OPERATION - DRIVING SAFELY Safe Operation - Driving Safely

Responsibilities of the Operator

As the operator of this vehicle, your common sense, judgment, and abilities are the only factors that will prevent injury to yourself, to others around you, and/or damage to the vehicle or environment.

Recreational, group, and distance riding

One of the benefits of this vehicle is that it can take you off-road away from most communities. Stay away from areas designated for other types of off-road use unless it is specifically allowed. This includes snowmobile trails, equestrian trails, cross-country ski trails, mountain bike trails, etc. Join a local ATV club. A club can provide you with a map and advice, or inform you about areas where you can ride.

Always keep a safe distance from other riders ahead of you and behind you when riding in a group. Never operate carelessly or make unexpected maneuvers with other vehicles close by. Stay on designated trails and riding areas, and discourage others from operating in unauthorized locations.

Avoiding Accidents, Rollovers and Tip-overs

Side-by-side vehicles handle differently from other vehicles. Side-by-side vehicles are designed to handle off-road terrain (for example, the 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.
- Deceleration when turning.
- 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 cockpit 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 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 belts 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 both feet firmly planted on the floor. The passenger should keep both hands on the handholds and both feet firmly planted on the floor.

Avoiding 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, latch side doors, and wear proper riding gear.

Environment

Off-road recreation is a privilege. Maintain your privilege by respecting the environment and the rights of others to enjoy it:

- Chasing wildlife is illegal. Wildlife can die of exhaustion if chased by a motorized vehicle.
- Never purposely damage the terrain unless the operating area is designated for that type of activity.
- Observe the rule..."what you take in, carry out". Do not litter.

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 147 ft. × 147 ft. (45m × 45m), and free of obstacles like trees and large rocks.

Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your vehicle.

NOTE:

Low gear is the preferred transmission gear selection for all forward motion other than prolonged high speed travel. Do not use high gear for continuous slow speed travel or towing, as this can lead to excessive heating of the clutch system, which may damage components.

Turning Exercise

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.

Practice turning:

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

Note how your vehicle reacts in these different exercises. CFMOTO recommends 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 low as possible to make sure it does not cause the vehicle to roll over.

U-turn Exercise

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 to the left.

As mentioned before in this manual, do not ride on paved surfaces. The vehicle behavior will not be the same, increasing the risk of rollover.

Braking Exercise

Practice braking to get familiar with the brake response:

- Practice braking at low speed first, then increase the speed.
- Practice braking in straight line at different speeds and different braking forces.
- 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 Exercise

Practice using the reverse:

- Place 1 cone marker on both sides of the vehicle beside each rear wheel.
- Move the vehicle forward until you can see the cone markers behind you, then stop the vehicle. Acknowledge the distance required to see obstacles behind you.
- Learn how the vehicle handles in reverse and reacts with steering inputs.
- Always perform this reverse exercise at slow speeds.
- Become familiar with the use of the speed limit override function (4WD-LOCK only). Do not make abrupt steering inputs while using the override, as it increases the risks of rollover.

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.

Operating Your Vehicle

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. This vehicle should never be operated by anyone who is not completely familiar with the driving instructions applicable to the vehicle, nor should it be operated on steep or treacherous terrain.

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 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.

△WARNING
Steering inputs in reverse operation increase the risk of rollover.

When driving downhill in reverse, gravity can increase the vehicle speed above the set limited reverse speed. Failure to use caution when operating in reverse can result in serious injury or death.

NOTE:

This vehicle is equipped with a reverse speed limiter function. In reverse operation, the engine RPM is limited, thus limiting the vehicle reverse speed. Do not operate at wide open throttle. Open the throttle just enough to maintain a desired speed.

Crossing Paved Roads

If you have to cross a paved 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.

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 should not exceed depth equal to the bottom of the floor board to safely cross.

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 while driving slowly after the vehicle leaves the water.

What to do if vehicle is submerged

If the vehicle becomes immersed, it will be necessary to have it transported to your dealer as soon as possible. Do not attempt to re-start the engine, as water may have been ingested into the cylinders, which can cause internal damage.

Riding in Mud, Ice or Snow

When performing a pre-ride inspection, pay special attention to locations on the vehicle where mud, ice and/ or snow accumulations may obstruct visibility of the tail lamps, 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 driven on a snow or ice covered 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 a 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 on 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 gravel or loose stones is very similar to riding on ice. They 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, which 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 obstacles at low speed and to as much a right angle as possible. Adjust speed without losing momentum and do not accelerate abruptly. The 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, 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 and activate the hand brake when stopped or parked, especially on an incline, to avoid rolling. If you must park on a steep incline, block the wheels on the downhill side using rocks or other suitable material.

Uphill Driving

Use the low gear (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 the brakes to immobilize the vehicle. Put the shift lever in reverse (R), and back straight down the hill, barely releasing brakes to remain at low speed. Do not attempt to turn around. Never coast downhill while the vehicle is in neutral. Do not perform hard braking, as it increases the risk of tip-over.

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 the brakes and lock the wheels.

Hauling and Towing Loads

Your vehicle can help you perform a number of different light tasks ranging from snow removal, to pulling wood, or carrying cargo. This 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.

EXAMPLE OF SUITABLE VEHICLE LOAD							
Туре	Cargo Box Load	Accessories	Total Vehicle Load				
CF500UTR-2	150 kg	95 kg	625 kg				
CF800UTR-2	150 kg	95 kg	625 kg				

Following is an example of suitable vehicle load distribution:

Vehicle Settings When Carrying Loads

If the total load approaches 350 kg, including weight of operator, passenger, cargo, accessories and trailer tongue weight:

- Inflate the tires to maximum pressure: Front: 14 PSI (97 kPa), rear :18 PSI (124 kPa).
- Readjust the suspension coil spring preload accordingly.
- Operate with the shift lever in L (low gear) when carrying heavy loads in the cargo box and/or pulling a trailer.

Load Distribution

Your vehicle has been designed to carry or tow a certain amount of load. Always:

- Read and understand the load distribution warnings listed on the warning labels.
- Never exceed the specified weights.
- Cargo weight should be mounted as low as possible.
- When operating over rough or hilly terrain with loads or towing, reduce speed and cargo to maintain stable driving conditions.

Pulling or Towing

Your vehicle is equipped with a hitch receiver and winch for towing or pulling.

Pulling 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.

Slack can cause a chain or cable to break and snap back, possibly causing injury.

- When pulling a load, respect the maximum hauling capacity.
- If 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.
- Reduce your speed when pulling a load and turn gradually to avoid chains, straps, ropes or cables from catching on the rear wheels. 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.
- Before pulling loads with a winch, refer to the winch Owner's Manual.

Towing a Load

If a trailer is towed 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 safety chains or cables that keep the trailer secured to the vehicle in the event of a hitch failure.

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. Follow these guidelines for hauling and towing of cargo:

Overloading the vehicle, carrying or towing cargo improperly, can alter the vehicle handling and may cause loss of control or braking instability.

- Always use low gear while towing to avoid clutch wear and belt issues.
- Reduce speed when hauling or towing loads.
- Never exceed the stated load capacity for this vehicle.
- All loads must be secured before operation. Unsecured loads may shift and create unstable operating conditions, which could result in loss of control of the vehicle.
- When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.
- Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations that may require backing downhill.
- Load weight distribution should be as low as possible. Carrying a high load raises the center of gravity and creates an unstable operating condition. Reduce load weight when the cargo center of gravity is high.
- When handling off-centered loads that cannot be centered, secure the load and operate with extra caution.

- When operating with loads extending beyond the cargo area, stability and maneuverability may be adversely affected, causing the machine to overturn.
- Towing a load while carrying cargo may cause an imbalanced condition that increases the possibility of vehicle overturn. Balance loads proportionally, but do not exceed the stated load capacity.
- Always attach to the towbar using the hitch point and hardware specifically made for towing. Never exceed the recommended tongue weight.
- Using chains, straps, rope or other materials to tow objects is not recommended, as these items could get caught in the rear wheels, resulting in vehicle damage or personal injury.
- While towing, the vehicle should never exceed 10 mph (16 km/h) towing a load on a level surface. Vehicle speed should never exceed 5mph (8 km/h) when towing loads in rough terrain, while cornering, or while ascending or descending a hill.
- 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.

MAXIMUM HAULING CAPACITY							
Туре	Type of Attachment	Trailer Load Allowed	Maximum permissible vertical load on the coupling point	Note			
CF500UTR-2	50 mm × 50 mm hitch ball support	400 kg	45 kg	Includes trailer and trailer load.			
CF800UTR-2	50 mm × 50 mm hitch ball support	400 kg	45 kg	Includes trailer and trailer load.			

Maintenance

Following the maintenance schedule in your owner's manual will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment, and lubrication of important components are explained in the maintenance schedules

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

NOTE:

Periodic service and adjustments are critical. If you are not familiar with performing safe service and adjustment procedures, have a qualified dealer perform the required maintenance for you.

NOTE:

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

NOTE:

The 800 engine contains a wet clutch assembly, which requires the use of JASO-certified engine oil. To avoid damage to the wet clutch, always use engine oil that is JASO-certified for wet clutches, commonly sold as motorcycle oil.

Severe Use Definition

CFMOTO defines severe vehicle use as:

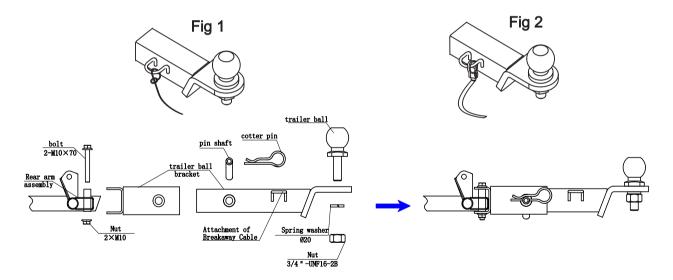
- Frequent immersion in mud, water or sand
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended engine idle
- Short trip cold weather operation
- Vehicles used in commercial operations

For vehicles that are subjected to severe use, reduce all maintenance and service intervals by 50%.

MAINTENANCE Where a designated attachment point is provided on the towbar Either: Or:

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

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



MAINTENANCE Periodic Maintenance Schedule and Icon Key

Maintenance intervals in the following schedules are based upon average riding conditions and an average operating speed of approximately 12.4 mph (20 km/h). Vehicles subjected to severe or commercial use must be inspected and serviced more frequently.

The following icon keys are used to note special circumstances:

- ► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.
- = Have an authorized dealer perform repairs that involve this component or system.
- = Emissions related components. Have an authorized dealer perform repairs that involve this component or system.

Procedures marked as '∎' means if repair is required, have an authorized dealer perform repairs that involve this component or system. Improperly performing the procedure could result in component failure and lead to serious injury or death.

General Recommended Lubrication

Check all components at the intervals outlined in the Periodic Maintenance Schedule. Items not listed in the schedule should be lubricated at the general lubrication interval.

- Change lubricants more often under severe use, such as wet or dusty conditions.
- Use All Season Grease on pivot points.
- Lubricate every 500 miles (800 km), before long periods of storage, after pressure washing, or after submerging drive system.

ltem	Lubricant	Method
Engine oil	SAE 10W-40 / SAE 5W-40 / SAE 15W-40	Screw off, clean, insert and pull
	JASO rated required for 800 wet clutch	out dipstick to check oil level
Brake fluid	DOT4	Keep level between
	B014	upper and lower lines
Front gear case oil	SAE80W-90 GL-5	Oil capacity: 11.2 oz. (330mL)
Rear gear case oil	SAE80W-90 GL-5	Oil capacity: 13.5 oz. (400mL)
Suspension pivots and drive		Grease gun - Pump grease until
train	All Season Grease	it begins to flow from the pivot
		point

Pre-Ride Maintenance Checklist

Perform these inspections before operating the vehicle:

	ltem		Maintena	ance before o	peration
			Calendar	Miles (km)	Remarks
	Steering system	-	Pre-Ride	-	
	Throttle return	-	Pre-Ride	-	
	Front suspension and axles	-	Pre-Ride	-	
	Rear suspension and axles	-	Pre-Ride	-	Visually inspect, test,
	Tires	-	Pre-Ride	-	or check components.
	Brake fluid level	-	Pre-Ride	-	Make adjustments and/ or schedule repairs
	Brake lever / foot brake function	-	Pre-Ride	-	when required.
	Brake system function	-	Pre-Ride	-	-when required.
	Wheels / fasteners	-	Pre-Ride	-	
	Engine oil level	-	Pre-Ride	-	
					Visually inspect.
	Air filter / Air box and connections	-	Pre-Ride	-	Replace filter when dirty.

► = Severe Use Item. Inspect frequently on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

	ltom		Maintena	nce before o	peration
	Item		Calendar	Miles (km)	Remarks
	Air box sediment tube	-	Pre-Ride	-	Inspect. If deposits are visible, clean intake tubes, air box, and replace air filter.
	CVT sediment tube	-	Pre-Ride	-	Inspect. If deposits are visible, drain / clean the CVT or have it serviced by a dealer.
•	Headlight aim / General lighting and turn indicators (if equipped)	-	Pre-Ride	-	Inspect. Adjust or replace lights when necessary.
	Radiator	-	Pre-Ride	-	Inspect for mud or debris blocking airflow. Clean surfaces when necessary.

► = Severe Use Item. Inspect frequently on vehicles subjected to severe use

■ = Have an authorized dealer perform repairs that involve this component or system.

Break-In Maintenance Checklist

Perform these maintenance items when the vehicle break-in is completed:

Item	Break-in Maintenance (Perform at the interval that arrives first)				
	Hour	Calendar	Miles (km)	Remarks	
General lubrication	20	-	200 (320)	Lubricate all grease points, pivots, cables, etc.	
Engine oil / oil filter / oil strainer (500/1000 only)	20	-	200 (320)	Change oil and filter. Clean oil strainer.	
► Engine air filter	20	-	200 (320)	Inspect; replace if dirty; do not clean	
Engine valve clearance	20	-	200 (320)	Check and adjust as necessary.	
Front / Rear gear case oil	20	-	200 (320)	Check level. Inspect for leaks.	
Coolant	20	-	200 (320)	Check level. Inspect for leaks.	
Transmission oil	20	-	200 (320)	Inspect level.	
Engine hoses, gaskets and seals	20	-	200 (320)	Inspect for leaks.	

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

 = Have an authorized dealer perform repairs that involve this component or system.
 = Emissions related components. Have an authorized dealer perform repairs that involve this component or system.

	I					
	Item	Break-in Maintenance (Perform at the interval that arrives first)				
			Calendar	Miles (km)	Remarks	
►	Brake pads	20	-	200 (320)	Inspect pad thickness.	
	Battery	20	-	200 (320)	Check terminals, clean, test battery condition if required.	
•	Idle condition	20	-	200 (320)	Inspect for proper rpm. See dealer for service if out of spec or erratic.	
	Steering / Wheel Alignment	20	-	200 (320)	Inspect steering system. See dealer for service if wheel alignment is required.	
	Foot brake / Hand brake	20	-	200 (320)	Inspect function. Adjust as necessary.	
	Gear cases, CV shafts, Propshafts	20	-	200 (320)	Inspect for leaks.	

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

Periodic Maintenance Schedule

Perform maintenance at the interval that arrives first after the break-in period:

Item		Periodic Maintenance Intervals (Perform at the interval that arrives first)					
			Calendar	Miles (km)	Remarks		
	Brake pads	10	Monthly	100 (160)	Inspect pad thickness.		
	Battery	20		200 (320)	Check terminals. Clean and test battery condition as necessary.		
	Engine hoses, gaskets and seals	20		200 (320)	Inspect for leaks.		
	Air filter	50h		500 (800)	Always inspect pre- ride. Inspect frequently if subjected to severe use. Replace if dirty. Do not clean.		
	General lubrication	50h	3M	500 (800)	Lubricate all grease points, pivots, cables, etc.		

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

				Maintananaa Ir	torvolo		
	Item	Periodic Maintenance Intervals (Perform at the interval that arrives first)					
	Item	Hour	Calendar	Miles (km)	Remarks		
•	Front gear case oil	50h	12M	500 (800)	Inspect level. Change yearly if hours or distance interval is not met.		
	Rear gear case oil	50h	12M	500 (800)	Inspect level. Change yearly if hours or distance interval is not met		
•	Engine oil / oil filter / oil strainer	100h	12M	1000 (1600)	Inspect for color change. Change if dirty and clean strainer (500/1000 only). Change yearly if hours or distance interval is not met.		
	Cooling system	50h	6M	500 (800)	Test coolant strength. Pressure test system yearly.		

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

		Periodic Maintenance Intervals					
	Item		(Perform at the interval that arrives first)				
		Hour	Calendar	Miles (km)	Remarks		
	Radiator	50h	6M	500 (800)	Inspect; clean external surfaces. Clean more frequently if subjected to severe use.		
	Steering system	50h	6M	500 (800)	Inspect. Lubricate.		
	Front suspension	50h	6M	500 (800)	Lubricate. Check fasteners.		
►	Rear suspension	50h	6M	500 (800)	Lubricate. Check fasteners.		
►	Gear shift	50h	1M	500 (800)	Inspect, lubricate, adjust as necessary.		
▶ ∎	Throttle body / throttle cable	50h	6M	500 (800)	Inspect. Clean carbon deposits. Inspect cable and lubricate frequently if subjected to severe use.		

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

				aintononoo Inf		
Item		Periodic Maintenance Intervals (Perform at the interval that arrives first)				
	nem	Hour	Calendar	Miles (km)	Remarks	
▶ ■	CVT drive belt	50h	12M	1500 (2400)	Inspect. Replace as necessary. See dealer for service.	
•	CVT drive and driven pulleys	100h	12M	500 (800)	Clean and Inspect pulleys. Replace worn parts. See dealer for service.	
	Fuel filter and hoses	100h	24M	2000 (3200)	Inspect routing and condition. Replace filter and high- pressure hoses every 4 years.	
	Cooling hoses	100h		1000 (1600)	Inspect routing and condition.	
	Valve clearance	100h		2000 (3200)	Inspect and adjust as necessary. See dealer for service.	

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

ltem		Periodic Maintenance Intervals (Perform at the interval that arrives first)			
		Hour	Calendar	Miles (km)	Remarks
•	Fuel system	100h	12M	500 (800)	Inspect fuel tank, cap, fuel pump and fuel pump relay.
	Spark plug	100h	24M	2000 (3200)	Inspect; Replace if worn or fouled.
•	Engine mounts	100h	12M	1500 (2400)	Inspect condition.
	Exhaust pipe and spark arrestor	100h	12M	500 (800)	Inspect. Clean spark arrestor.
	Wiring, fuses, connectors, relays, and cables	100h	12M	1000 (1600)	Inspect wire routing for wear, security. Apply dielectric grease as necessary to connectors subjected to water, mud, etc.

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

MAINTENANCE						
		Periodic Maintenance Intervals				
	Item	(Perform at the interval that arrives first)				
		Hour	Calendar	Miles (km)	Remarks	
▶ ∎	Wheel bearings	100h	12M	1500 (2400)	Inspect for noise or looseness. Replace as necessary.	
	Safety Belts	100h	12M	2000 (3200)	Visually inspect belts and test latches. Clean latch mechanism more often if used in severe conditions. Replace as necessary.	
	Coolant	200h	24M	4000 (6400)	Change coolant every 2 years if hours or distance interval is not met.	

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

Item		Periodic Maintenance Intervals (Perform at the interval that arrives first)				
		Hour	Calendar	Miles (km)	Remarks	
	Brake fluid	200h	24M	1000 (1600)	Inspect fluid for color change. Change fluid every two years.	
	Idle condition		12M		Inspect for proper rpm. See dealer for service if out of spec or erratic.	
•	Steering / Wheel Alignment		12M		Inspect steering system. See dealer for service whenever steering parts or wheel alignment are required.	
	Foot brake height		12M		Inspect. Replace brake pads or adjust height as required.	

► = Severe Use Item. Reduce interval by 50% on vehicles subjected to severe use.

■ = Have an authorized dealer perform repairs that involve this component or system.

Maintenance Procedures

Air filter

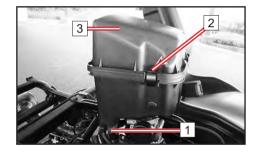
Check and change the air filter at the intervals outlined in the Maintenance Schedule. The air filter element should be cleaned or replaced more often if the vehicle is used in extremely dusty or wet areas. Each time air filter maintenance is performed, check the air inlet of the air filter box for obstructions and debris. Check the air filter housing rubber joint to the throttle body and manifold fittings for an airtight seal. Check that all fittings are secure to avoid the possibility of unfiltered air entering the engine.

Air filter housing inspection

There is a check hose 1 at the bottom of the air filter housing. If dust or water can be viewed in this hose, empty the hose and clean the air filter housing thoroughly. If the vehicle was submerged, please contact your local dealer to check for water inside the engine crankcase.

NOTE

If a large amount of water is present in the air filter, have your dealer check for water entering the engine crankcase.



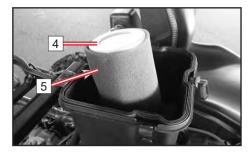
Air filter maintenance

- 1. Remove the housing cover, located between the seats:
 - Tilt both seats forward.
 - Disengage the rubber straps at the rear of the housing cover.
 - At the front corners, pull up each side and remove the cover.
- 2. Remove the cover spring clips 2 and remove the filter housing cover 3.
- 3. Loosen the air filter clamp and remove theair filter 4.
- 4. Remove the foam pre-filter 5 from the air filter.
- 5. Wash the foam pre-filter gently with soap and water, and allow it to completely dry.
- 6. Inspect the paper air filter and verify it is okay to reinstall. Softly brush off accumulated dust if necessary. Install a new filter as necessary.

NOTE:

Do not wash paper air filters, or use compressed air to clean the paper filter media.

- 7. Install the pre-filter onto the air filter. Apply a thin film of lubricant on the inside diameter of the air filter rubber seal.
- 8. Install the air filter and clamp onto the air filter housing inlet. Tighten the clamp securely.
- 9. Reinstall the air filter housing cover. Verify the cover is installed correctly and is sealing properly.
- 10. Reinstall the housing cover.



Drying the air filter housing after submersion

If water has been ingested into the air filter housing, Drain the air filter housing, remove the air filter, and thoroughly dry the components. Do not use compressed air on the paper air filter. Contact your dealer if vehicle performance issues exist.

CAUTION

Do not operate the engine without an air filter element. Unfiltered air entering into the engine can cause engine wear and damage. Driving without an air filter will also decrease performance and can lead to engine overheating.

CAUTION

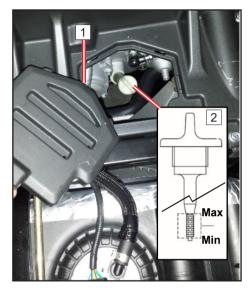
Major engine damage can be resulted for the vehicle if water has been ingested into the air filter housing, and engine. Have the vehicle serviced by your dealer promptly if your vehicle becomes immersed or stalls in water that exceeds the footrest level. It is important to contact your dealer for service before starting the engine, as water may have been ingested in the air box and engine.

Engine oil

Always check and change the engine oil at the intervals outlined in the Maintenance Schedule. Change oil more frequently under severe use conditions.

Oil level check

- 1. Place the vehicle on a level surface.
- 2. Start the engine and let it idle for 20~30 seconds. Stop the engine and wait a short time for the oil to settle.
- Tilt the passenger seat to gain access to the inspection cover
 1.
- 4. Remove the inspection cover by grasping the end and pulling up firmly.
- 5. Unscrew the oil dipstick 2, remove it, and wipe off with a clean cloth.
- 6. Insert the dipstick into the oil filler hole. Do not fully reinstall it.
- 7. Remove the dipstick and check the oil level indication. Maintain the oil level between the upper and lower indicators.
- 8. Reinstall the dipstick into the oil filler hole, and hand-tighten it.
- 9. Reinstall the inspection cover and passenger seat.

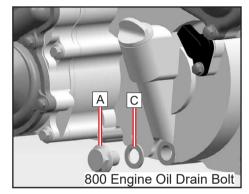


Oil and filter change

- 1. Place the vehicle on a level surface.
- 2. If the engine was running, wait a sufficient amount of time for the oil to settle and cool.
- 3. Place an oil pan under the engine to collect the used oil.
- 4. 800- Remove the passenger seat and inspection cover to access the oil drain bolt, fill, and filter location.
- 5. 500- Remove the passenger seat and inspection cover to access the oil fill location.
- 6. 800- Remove the engine oil drain bolt A and drain the oil from the crankcase.
- 7. 500- Remove the engine oil drain bolt B from the bottom of the crankcase and drain the oil.
- 8. 500/800- Place a new sealing washer C on the drain bolt, then assemble and tighten the drain bolt to **22 ft-lb. (30 N·m)**.

NOTE:

The 500 engine has an internal sump strainer behind the drain bolt cover that can be checked and cleaned during an oil change. The 800 engine internal sump strainer is not serviceable.





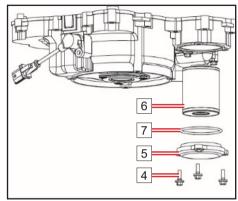
- 9. Remove the oil filter cover fasteners 4 and cover 5 from the crankcase.
- 10. Remove the oil filter cartridge 6 from the crankcase housing.
- 11. Install a new oil filter cartridge in the crankcase housing.
- 12. Inspect and verify the cover O-ring 7 is okay to reuse, and then install it into the groove of the crankcase housing correctly.
- 13. Install the oil filter cover and fasteners. Tighten the fasteners to 7.3 ft-lb. (10 N•m).
- 14. Add the specified amount of recommended engine oil, and then reinstall the engine oil dipstick and hand-tighten it.

NOTE

- 800 Oil change with oil filter: 3.59 qt. (3.4 L)
- 500 Oil change with oil filter: 3.06 qt. (2.9 L)

The 800 engine contains a wet clutch assembly, which requires the use of JASO-certified engine oil. To avoid damage to the wet clutch, always use JASO-certified engine oil, commonly sold as motorcycle engine oil.

- 15. Start the engine and allow it to run for (2-3) minutes. While the engine is running, check for oil leaks. If an oil leak is found, turn the engine off immediately and check for the cause.
- 16. Turn the engine off. Recheck the oil level and correct it if necessary.



Engine valve clearance adjustment

The intake and exhaust valve clearances change with use of the vehicle, which can result in improper fuel/air supply or engine noise. To prevent this, the valve clearances must be adjusted according to the maintenance schedule. This adjustment should be performed by a professional service technician. Contact your dealer for service.

NOTE: (all engines) Intake valve clearance (cold engine): 0.003 in. ~ 0.005 in. (0.08mm ~0.12mm) Exhaust valve clearance (cold engine): 0.005 in. ~ 0.007 in. (0.12mm ~0.18mm)

Engine Idle Speed

This vehicle is equipped with an electronic fuel injection system. The throttle body is a vital part of the fuel system which requires very sophisticated adjustment, and was set at the factory. There are no consumer provisions to adjust engine idle speed. If the settings are disturbed, poor engine performance and damage may result. Check the engine idle speed for stability or an abnormal engine idle condition and contact your dealer for service if necessary.

NOTE:

800 - Engine idle speed: 1300 rpm ±100 rpm (engine at operating temperature)

500 - Engine idle speed: 1500 rpm ±150 rpm (engine at operating temperature)

Front and rear gear case

The gear cases must be checked for oil leaks before operating. If any leaks are found, have your dealer check and repair the vehicle.

Front gear case oil check:

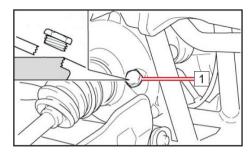
- 1. Place the vehicle on a level surface.
- 2. Remove the oil filler bolt 1 and check the oil level. The level should be up to the brim of the hole. If the level is low, add sufficient oil to raise it to the specified level.
- 3. Install the oil filler bolt and tighten it to 18.4 ft-lb. (25 Nm).

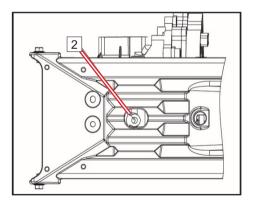
Front gear case oil change:

- 1. Place the vehicle on a level surface.
- 2. Place an oil pan under the gear case to collect the used oil.
- 3. Remove the oil filler bolt 1 and drain bolt 2 as shown, and drain used oil.
- 4. Install the oil drain bolt and tighten it to **18.4 ft-lb.(25 N·m).**
- 5. Remove the oil filler bolt. Add sufficient oil to raise the level up to the brim of the hole.
- 6. Install the oil filler bolt and tighten it to 18.4 ft-lb.(25 N·m).

NOTE:

Approximate front gear case oil capacity: 11.2 oz. (330mL)





Rear gear case oil check:

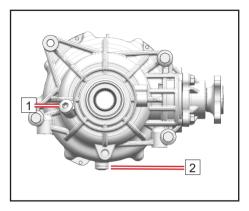
Because of its unique design, draining and filling the rear gear case is required to produce the correct oil level. Refer to 'Rear gear case oil change'.

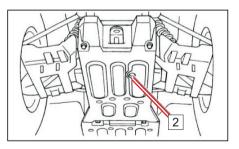
Rear gear case oil change:

- 1. Place the vehicle on a level surface.
- 2. Place an oil pan under the gear case to collect the used oil.
- 3. Remove the oil filler bolt 1 and drain bolt 2 at the bottom of the gear case and drain the oil.
- 4. Install the oil drain bolt and tighten it to 18.4 ft-lb. (25 N·m).
- 5. Add recommended amount of gear oil into the rear gear case.
- 6. Install the oil filler bolt and tighten it to **18.4 ft-lb. (25 N·m).**

NOTE

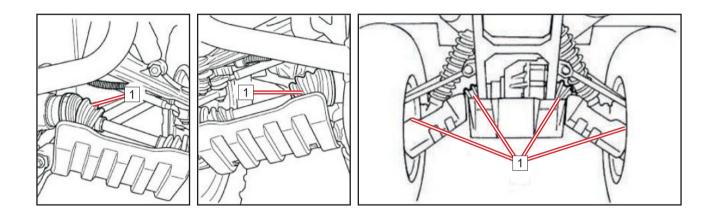
Approximate rear gear case oil capacity: 13.5 oz. (400ml)





Front and rear axles

The front and rear axle dust boots 1 must be checked for holes or wear before operating. If any damage is found, have your dealer check and repair the vehicle.



CVT air outlet check hose

There is a check hose 4 at the bottom of the CVT cooling outlet duct, located at the rear of the engine. If dust or water can be viewed in this hose, empty the hose and clean or drain the CVT housing. If the vehicle was submerged, contact your local dealer to check the CVT housing and components thoroughly.

What to do if water collects in the CVT housing

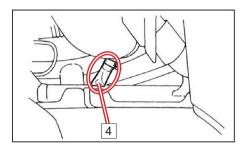
If the vehicle was submerged in water deep enough that water has entered the CVT housing, remove the drain bolt 5 at the bottom of the housing to drain the water from the case.

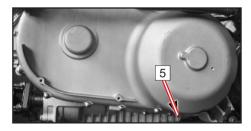
CAUTION

If water drains from the CVT housing after removing the bolt, have your dealer inspect the vehicle, as water may have affected the CVT system and other engine parts

Drying a wet CVT system

If the CVT system was submerged and the drive belt is slipping, any remaining moisture inside the CVT housing after draining can be expelled by running the engine above 2000 RPM in Park or Neutral for 30-60 seconds, then testing for proper CVT function in low gear. Repeat as necessary. If the CVT system continues to slip or have poor performance, contact your dealer.





Cooling system

Coolant level inspection

- 1. Place the vehicle on a level surface.
- 2. Inspect the coolant level in the reservoir 1, which can be viewed through the right side inner fender area.
- 3. If the coolant is at or below the lower limit mark; remove the access cover and the reservoir cap 2. Add coolant to the upper limit mark, install the reservoir cap, and then reinstall the access cover.

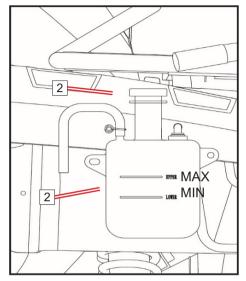
NOTE

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

Coolant system capacity: **3.1 qt. (3.0 L)** Lowest capacity of coolant reservoir: **0.24 qt. (230 mL)**

CAUTION

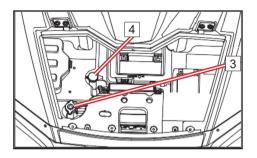
If water is added, have your dealer check the antifreeze content of the coolant as soon as possible. Never add hard water or salt water, as it is harmful to the engine. Softened tap water may be used if distilled water is not available. The radiator fan operation is automatically switched on or off according to the coolant temperature in the radiator during operation.



Change the coolant

After running the engine, never remove the radiator cap immediately. Wait for the engine to cool down before removing the radiator cap. Hot coolant can cause serious burns.

- 1. Place the vehicle on a level surface.
- 2. Remove the front access cover.
- 3. Remove the radiator cap 3.
- 4. Remove the coolant reservoir cap $\boxed{4}$.

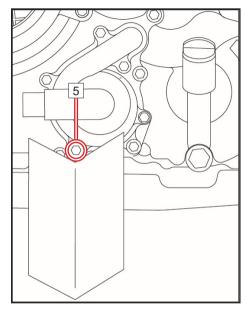


- 5. Place a container under the engine, and then remove the coolant drain bolt 5.
- 6. Disconnect the hose from the coolant reservoir, and drain the coolant into a container.
- 7. After draining the system, thoroughly flush the system with clean tap water. Allow the water to drain completely.
- 8. Replace the coolant drain bolt washer if it is damaged, then install and tighten the coolant drain bolt, but do not torque to specification.
- 9. Reinstall the coolant reservoir hose.
- 10. Fill the recommended coolant into the radiator until it is full.

NOTE:

When filling coolant, at the same time loosen the coolant drain bolt 5 to draw out potential air bubbles inside the coolant hose until coolant flows out, then tighten the drain bolt to **7.3 ft-lb. (10 N·m).**

- 11. Install the radiator cap.
- 12. Start the engine and let it idle for several minutes. Stop the engine and allow it to cool. Check the coolant level in the radiator. If it is low, add more coolant until it reaches the top of the radiator. Repeat as necessary.



- 13. Fill the coolant reservoir with coolant up to the upper limit.
- 14. Install the coolant reservoir cap and check for coolant leaks. If any leaks are found, have your dealer check the cooling system.
- 15. Reinstall the front access cover.

NOTE :

Recommended antifreeze:

Any high quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines.

Antifreeze and water mixing ratio: 1:1

Coolant capacity: CF500UU: 3.5 L, CF800-3: 3.9 L

Coolant change: CF500UU: 3.4 L, CF800-3: 3.8 L

Coolant reservoir capacity: 200mL ~ 300mL

Cleaning

Cleaning the external surfaces of the radiator if it is covered with mud or debris will ensure it continues to efficiently cool the engine. Use only low pressure water to clean the radiator. High pressure washers can damage components. Ensure that water can flow can flow freely through the radiator fins. This is a sign that cooling air will be allowed to pass through.

Spark plug

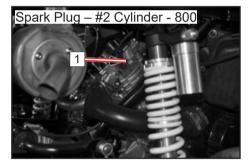
The spark plug is an important engine component that is easy to inspect. The color and condition of the spark plug can indicate the condition of the engine. The ideal color on the insulator around the center electrode is a medium-to-light tan color for an engine that is being operated normally. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Periodically remove and inspect the spark plug(s) for heat damage and deposits that will cause them to break down and erode. Do not attempt to diagnose spark plug color or engine problems yourself. Instead, take the vehicle to your dealer for service.

Spark Plug Removal and Inspection

- 1. Tilt the cargo box.
- 2. Clean any dirt or debris from the spark plug and cylinder area.
- 3. Remove the spark plug cap 1.





- 4. Use the spark plug socket and wrench 2 from the tool kit to remove the spark plug.
- 5. Check the spark plug gap a using a thickness gauge. Adjust the gap if necessary.

NOTE:

Specified spark plug: DCPR8E (NGK)

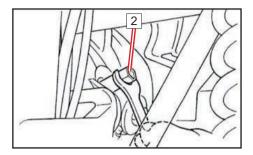
Spark plug gap: 0.035 in.~0.045 in. (0.8 mm~0.9 mm)

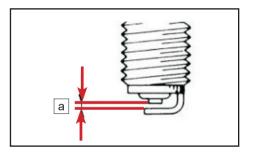
- 6. Clean the gasket surface. Wipe off any grime from the threads.
- 7. Install spark plug and tighten to specified torque.

NOTE

Spark plug torque: **14.8 ft-lb (20 N·m).** If a torque wrench is not available when you are installing a spark plug, a good estimate of the correct torque is 1/4 to 1/2 turn past finger tight.

- 8. Install the spark plug cap.
- 9. nstall the side panel. Torque the fasteners to 7.3 ft-lb. (10 N·m).





Spark plug removal to expel water from the engine

If water has been ingested into the engine, it is important to remove the water as soon as possible by removing the spark plug(s) and using the starter system to rotate the engine for a short period to expel water out of the cylinder(s). Verify that the air box has been drained of water before attempting to expel water. Have a dealer service the engine immediately.

Major engine damage can result if the vehicle if water is ingested into the engine. Have the vehicle serviced by your dealer promptly if your vehicle becomes immersed or stalls in water that exceeds the footrest level. It is important to contact your dealer for service before starting the engine if water has been ingested. Water inside the engine can cause a 'hydraulic lock' effect that can damage the starter and engine components. The engine oil should be checked for water contamination. Drain and refill with new engine oil if water is found in the crankcase.

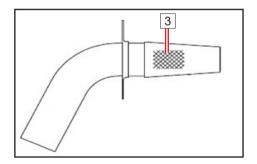
Exhaust spark arrestor

Clean carbon deposits from the spark arrester periodically while the muffler and exhaust are at normal air temperature.

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



- 1. Remove the fasteners 1.
- 2. Tap the tailpipe lightly to loosen it and remove the spark arrester 2 from the muffler.
- 3. Use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe $\boxed{3}$.
- 4. Insert the tailpipe into the muffler and align the bolt holes.
- 5. Install and torque the fasteners to 7.3 ft-lb. (10 N·m).

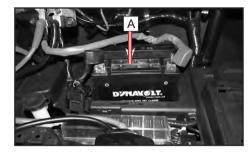


Battery

This vehicle is equipped with a 12 volt/30 Amp-hour, sealed lowmaintenance battery \overline{A} , which is located under the front access panel. Therefore, it is not necessary to check the electrolyte or add distilled water to the battery. If the battery seems to have discharged, consult your dealer. Verify that the battery connections are clean and secured during routine maintenance.

Battery maintenance guidelines:

- If the vehicle will not be used for a month or longer, remove the battery and store it in a cool, dry place. Completely recharge the battery before reinstallation.
- A special battery charger (constant low voltage/ampere) is required for recharging low-maintenance batteries. Using a conventional battery charger may shorten the battery life.
- Always make sure the cable connections are the correct polarity when reinstalling the battery. RED ('+' positive) / Black ('-' negative). Always disconnect the RED ('+'positive) cable <u>last</u> during removal, and reconnect it <u>first</u> during installation.
- Corroded battery connections can be cleaned with a mixture of baking soda and water.



Avoid contact with skin, eyes or clothing, and always shield eyes when working near batteries. Keep out of reach of children. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate the area when charging or using in a closed space.

Battery acid antidote:

EXTERNAL: Flush with water.

INTERNAL: Get prompt medical attention.

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

Brakes

Brake Fluid Reservoir and Level Indicator

Brake master cylinder reservoir level A can be viewed under the front access cover. Check the brake master cylinder fluid level before each use of the vehicle. If the fluid level is lower than the "low" mark, determine the cause or refill with brake fluid as necessary.



Observe these precautions:

- When checking the fluid level, make sure the vehicle is on a level surface.
- Use only the designated quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leaks and poor brake performance.
- Recommended brake fluid: DOT 4.
- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and may lead to poor brake performance.
- Be careful that water does not enter the master cylinder reservoir. Water will significantly lower the boiling point of the fluid and lead to poor brake performance.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- 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 or brake system leakage; therefore, be sure to check the brake pads for wear and the brake system for leakage.
- Have your dealer check the cause if the brake fluid level goes down unexpectedly.

Brake pad inspection

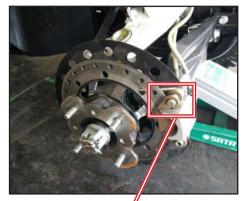
Inspect the front brake pads and discs for damage and wear. If the pad thickness \boxed{A} is less than 0.059 in. (1.5mm) or the disc thickness \boxed{B} is less than 0.118 in. (3.0mm), have your dealer replace them. Replacement of brake components requires professional knowledge. These procedures should be performed by your dealer.

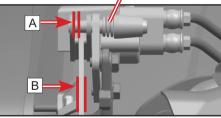
NOTE:

Wheels must be removed to check brake pads.

After servicing:

- Make sure the brakes operate smoothly and that the lever free play is correct.
- Make sure the brakes do not drag and the brake operation is not spongy.
- All air is bled from the brake system.





Brake fluid change

Complete brake system fluid replacement should be performed only by trained service personnel. Have your dealer replace the following components during periodic maintenance, or when they are damaged or leaking:

- Replace the seals every two (2) years.
- Replace the brake hoses every four (4) years.

Brake light switch operation

The brake light switch is activated by foot brake pedal pressure, and is properly working when the brake light comes on just as braking takes effect. Check that the switch assembly or the electrical circuit is working properly in case of brake light failure.

Control Cables

Inspection and lubrication

Inspect throttle and brake cables frequently. Lubricate the inner cable and the cable ends. Replace damaged cables when they are discovered. Submersion of the vehicle may cause cables to corrode or stick. If the cables do not operate smoothly, ask your dealer to replace them.

NOTE:

Recommended lubricant: SAE 10W-30 or a commercially available cable lubricant.

Suspension

Some front suspension components of the vehicle do not require maintenance or lubrication. Ensure these components are cleaned regularly, and are not loose or damaged before operating the vehicle.

Pivot Lubrication

Lubricate the upper and lower pivots of the front and rear suspension:

1. Add grease into the upper and lower pivot grease nipples 1 located at the frame with a grease gun until grease lightly flows from the bushing.

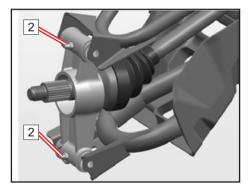
Rear hub carrier lubrication

Lubricate the upper and lower pivots of the rear hub carrier:

- 1. Remove the rear wheels.
- Add grease into the hub carrier upper and lower pivot grease nipples 2 with a grease gun until grease lightly flows from the bushing.
- 3. Reinstall the rear wheels. Torque the fasteners to specification.

NOTE:

Recommended lubricant: All Season Grease



Shock preload adjustment

The front and rear shock spring preload and damping can be adjusted to for rider weight, cargo, and riding conditions. Always adjust the shock absorbers on the left and right side to the same setting, and reset them to the initial setting after carrying loads.

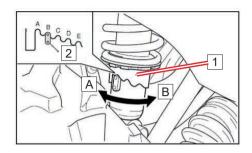
Adjust the spring preload:

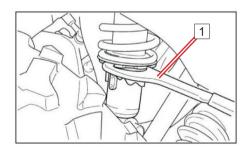
A = Soft ~ B = Hard

- To increase the spring preload, loosen the lock nut 2 and turn the adjusting ring 1 in direction 'B'.
- To decrease the spring preload, loosen the lock nut 2 and turn the adjusting ring 1 in direction (A).

NOTE:

A special collar wrench is included in the tool kit to make spring preload adjustments.





Wheels

Tire pressure

Inspect the tire pressure before operation:

Front: 80kPa

Rear: 100kPa

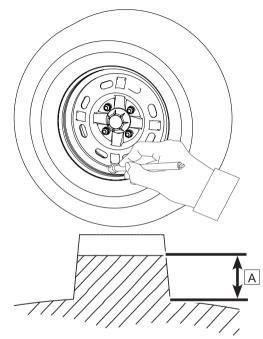
Tread depth

Inspect the tread depth regularly and replace the tires if the minimum tread depth is less than:

Minimum tread depth: 3/32 in. (3.0mm)

Wheel Bearings

- 1. Lift the vehicle and support it securely under the frame with the tires off the ground.
- 2. Push and pull the wheels at the outer edges to feel for side play or looseness. See your dealer if there is any side play or looseness.



Wheel Removal

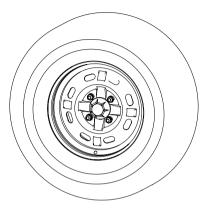
- 1. Ensure vehicle is in park.
- 2. Loosen the wheel fasteners.
- 3. Elevate the vehicle and place a suitable support stand under the frame.
- 4. Remove the fasteners from the wheel.
- 5. Remove the wheel.

Wheel Installation

- 1. Ensure vehicle is in park.
- 2. Install the wheel.
- 3. Install the wheel fasteners hand tight.
- 4. Elevate the vehicle, remove the support stand under the frame, and lower the vehicle to the ground.
- 5. Torque the wheel fasteners to specification:
 - Steel wheels 37 ft-lb ~ 44 ft-lb. (50 N•m ~ 60 N•m)
 - Aluminum wheels 52 ft-lb ~ 59 ft-lb. (70 N•m ~ 80 N•m)

NOTE:

If aluminum wheels are used with tapered fasteners, install the fastener with the tapered side facing the wheel. For steel wheels, install the fastener with the flat surface facing the wheel.



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.

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.

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

Fuse box

CAUTION

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

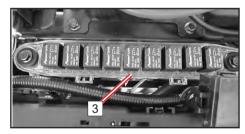
Main Fuse and EPS Fuse

A 40 Amp main fuse 2 is located to the left of the battery. A 40 Amp EPS fuse is located to the right by the EPS module. If the fuse is blown, turn off the main switch and install a new fuse of the specified amperage. Turn on the main switch. If the fuse immediately blows again, contact your dealer.



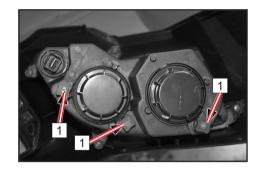
Relays

Electrical relays 3 help operate the various vehicle system functions vehicle, and are located under the front access cover. For relay replacement or diagnosis, contact your dealer.



Relay Control Functions:

Start Relay 1
Start Relay 2
K Relay
у
lay (if equipped)



Head light adjustment

- 1. To adjust the head lights:
 - Turn screws 1 to adjust the high beam direction beam vertically and horizontally.
 - Turn screw 2 to adjust the low beam vertically.

It is advisable to have your dealer perform headlight adjustments. Improper adjustment could lead to an accident resulting in serious injury or death.

MAINTENANCE

Head light replacement

- 1. Access the headlight lamp:
 - Remove the cover 2 3 from the headlight assembly 1 by turning it counter-clockwise.
 - Remove the cover to expose the headlight lamp.
- 2. Remove the headlight lamp lock spring.
- 3. Disconnect the failed bulb, pull it out, and replace it with a new bulb.
- 4. Reinstall the bulb and lock spring into the headlight housing.
- 5. Reinstall the cover and turn it clockwise.
- 6. Test the head light and ensure it is working properly.

Hot surface. Touch the bulb only after it has cooled down. Do not touch the bulb surface. Use gloves or other protection to keep oils and dirt off the bulb.

NOTE: The position lamp and turning lamp assemblies are an LED structure, which cannot be repaired if damaged or failed. Have your dealer replace the entire assembly if an LED is damaged or has failed.

MAINTENANCE

Tail/brake, position, and turn signal lamp replacement

Brake/tail lights, front position lights, and turn signals (if equipped) are LED type. Have your dealer replace the entire assembly if an LED is damaged or has failed.

License plate lamp replacement

If the license plate lamp has failed:

- 1. Pull the lamp holder from the rear of the license plate lamp housing.
- 2. Pull the failed bulb and replace it with a new bulb.
- 3. Reinstall the lamp holder into the rear of the license plate lamp housing.

Bulb Specification: 12V 5W W5W

Hot surface. Touch the bulb only after it has cooled down. Do not touch the bulb surface.

Cleaning and Storage

Washing the vehicle

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

- The best and safest way to clean your vehicle is with a garden hose and a pail of mild soap and water. Harsh detergents may deteriorate rubber components.
- Use a professional type washing mitten, cleaning the upper body first and the lower parts last.
- Pay special attention that the cooling system radiator and axle boots are thoroughly cleaned of all dirt and debris.
- Rinse with water frequently and dry the vehicle with a chamois to prevent water spots.
- Lubricate all pivot points immediately after washing.
- Allow the engine to run for a while to evaporate any water that may have entered the engine air intake or exhaust system.

CFMOTO does not recommend the use of a high-pressure car wash system for washing your vehicle, as water can be forced past seals and damage decals. If a high pressure system is used, exercise extreme care to avoid water damage to the decals, wheel bearings, transmission seals, body panels, brakes, warning labels, air filter intake system and electrical system. Ensure water is not allowed to enter into the air filter or CVT housing. If warning and safety labels are damaged, contact your dealer for a replacement.

Waxing the vehicle

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

CAUTION

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

Perform repairs

Make necessary repairs to your vehicle before storing to prevent further damage the next time you operate it.

Check the tires

Inspect the tire treads and overall condition. Set the tires to the specified air pressure.

Oil and filter

Warm the engine, then stop the engine and change the oil and filter.

Air filter/ Air box

Inspect and clean or replace air filter. Clean the air box and the sediment tube.

Check fluid levels

Inspect the following fluid levels and change if necessary:

- Front gear case
- Rear gear case
- Brake fluid (change every two years or as required if fluid looks dark or contaminated)
- Coolant (change every two years or as required if coolant looks contaminated)
- Fuel Level (add fuel stabilizer according to the product label directions)

Stabilize the fuel

Fill the fuel tank with fresh fuel that has been treated with fuel stabilizer according to the product label directions. Do not allow untreated fuel to remain in the tank longer than 30 days, as the fuel begins to degrade and can cause damage to the fuel system components.

Battery storage

• Remove the battery from the vehicle and ensure that it is fully charged before placing it in storage. Protect the battery from freezing temperatures, which can damage the battery.

Lubricate

Inspect all cables and lubricate with cable lubricant according to the product label directions. Grease the vehicle lubricating points with all season grease.

'Fog' the engine

- 1. Remove the cargo box panel to access the spark plug(s).
- Remove the spark plug(s), rotate the piston to the bottom of its stroke, and pour approximately 2.0 oz. (15mL~20mL) of engine oil into the opening.

NOTE:

Do this carefully! If you miss the spark plug hole, oil will drain from the spark plug cavity, and appear to be an oil leak. To access the spark plug hole, use a section of clean hose and a small plastic squeeze bottle filled with the pre-measured amount of oil.

- 3. Reinstall the spark plug(s). Torque the spark plug to specification.
- 4. Turn engine over several times slowly. Oil will be forced in and around the piston, piston rings and the cylinder will be coated with a protective film of fresh oil.
- 5. Reinstall the spark plug(s), cap(s), and cargo box panel.

NOTE:

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

Storage area and covering

Support the vehicle with stands under the frame with the tires 1/2in (30mm~40mm) off the ground. Be sure the storage area is well ventilated, and cover the machine with an approved cover.

NOTE:

Do not use covers made of plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

Transporting the vehicle

Follow these procedures when transporting the vehicle on a flatbed trailer:

- Turn off the engine and remove the key to prevent loss during transporting.
- Place the gear shift into any position except the parking position, then block the front and rear wheels to prevent the vehicle from moving.
- Ensure the fuel cap is installed correctly and secure.
- Ensure the seats and access panels are installed correctly and secure.
- Remove any items from the vehicle not tied down or secure.
- Secure the front and rear of the vehicle frame to the transport using heavy-duty tie-down straps to prevent the vehicle from sliding or moving.

CAUTION Never transport with the gear selector in the parking position. Damage to the transmission may result.

Vehicle Issue Diagnosis

This section is intended to guide an average owner to simple items that could cause operating problems. Diagnosis of vehicle issues may require the experience of a dealership technician. Please contact your dealer if a solution is not apparent.

Engine starter doesn't turn on

Possible Cause	Solution		
Blown fuse	Reset or replace the fuse		
Low battery voltage	Recharge battery to 12.8 Vdc – Confirm battery state		
	of health		
Loose battery connections	Check all connections and tighten if necessary		
Loose starter system electrical connections	Check all connections and tighten if necessary		
Engine stop switch	Check function		
Start circuit not complete – transmission in gear	Press foot brake or shift transmission to neutral or		
Start circuit not complete – transmission in gear	parking position.		

Engine pings or knocks

Possible Cause	Solution	
Poor quality or low octane fuel	Replace with minimum 95 octane unleaded fuel	
Incorrect ignition timing.	See your dealer	
Incorrect spark plug gap or heat range	Set spark plug gap to specs or replace plugs	

Engine stops or loses power

Possible Cause	Solution		
Overheated engine	Clean radiator screen and external core; clean engine exterior; See your dealer		
Out of fuel	Refuel with minimum 95 octane unleaded fuel		
Kinked or plugged fuel tank vent line	Inspect and replace; See your dealer		
Water present in fuel	Replace with new fuel		
Fouled or defective spark plugs	Inspect and clean 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 battery to 12.8 Vdc; check charging system – Confirm battery health		
Clogged air filter	Inspect and replace as necessary		
Reverse speed limiter malfunction	See your dealer		
Electronic throttle control malfunction	See your dealer		
Other mechanical failure	See your dealer		

Engine turns over, Fails to start

Possible Cause	Solution
Out of Fuel	Refuel
Clogged fuel filter	Inspect and replace as necessary
Water is present in fuel	Replace with 95 minimum octane unleaded fuel
Fuel pump is inoperative	Inspect pump and fuse; Replace as necessary
Old or non-recommended fuel	Replace with 95 minimum octane unleaded fuel
Fouled or defective spark plug(s)	Inspect spark plug(s), replace if necessary
No spark to spark plug	Inspect spark plug(s) , verify stop switch is on
Crankcase filled with water or fuel	Immediately see your dealer
Clogged air filter	Inspect and replace as necessary; Replace spark
	plugs as necessary
Clogged fuel injector	See your dealer
Low battery voltage	Recharge battery to 12.8 Vdc – Confirm battery
	health

Engine backfires

Possible Cause	Solution		
Weak spark from spark plugs	Inspect and replace spark plugs as necessary		
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs		
Old or non-recommended fuel	Replace with minimum 95 octane unleaded fuel		
Incorrectly installed spark plug wires	See your dealer		
Incorrect ignition timing	See your dealer		
Mechanical failure	See your dealer		
Speed limiter malfunction	See your dealer		

Engine runs irregularly, stalls or misfires

Possible Cause	Solution		
Fouled or defective spark plugs	Inspect and replace spark plugs as necessary		
Worn or defective spark plug wires	See your dealer		
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs		
Loose electrical connections	Check all connections and tighten		
Water present in fuel	Replace with new fuel		
Low battery voltage	Recharge battery to 12.8 Vdc; Check charging system		
Kinked or plugged fuel tank vent line	Inspect and replace		
Incorrect fuel	Replace with 95 minimum octane unleaded fuel		
Clogged air filter	Inspect and replace as necessary; Replace spark		
	plugs as necessary		
Reverse speed limiter malfunction	See your dealer		
Electronic throttle control malfunction	See your dealer		

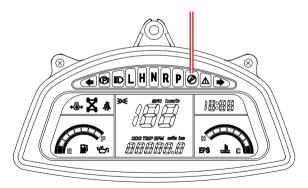
Possible Cause	Solution		
Other mechanical failure	See your dealer		
Possible Lean or Rich fuel mixture	See your dealer		
Low or contaminated fuel	Add or change fuel, clean the fuel system		
Low octane fuel	Replace with minimum 95 octane unleaded fuel		
Clogged fuel filter	Replace filter		
Fuel is very high octane	Replace with minimum 95 octane unleaded fuel		

EFI Malfunction Indicator Light

The Electronic Fuel Injection system on your vehicle contains a self-diagnostic feature that will illuminate the malfunction indicator light (MIL) if it detects a problem. When this indicator is on, please contact your dealer for diagnosing. Your dealer has the EFI tool required to diagnose, repair and clear trouble codes.

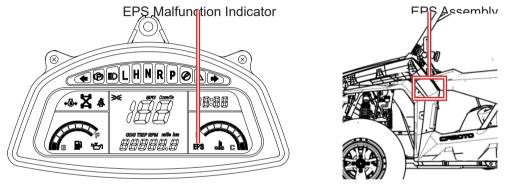
During normal operation, the EFI indicator will be off.

EFI Malfunction Indicator



EPS Malfunction Indicator Light

The Electronic Power Steering system on your vehicle contains a self-diagnostic feature that will illuminate the malfunction indicator light (MIL) if it detects a problem. In normal operation, the EPS indicator will be on after the ignition switch is turned to ON, but EPS will not work. When the engine is started, the EPS indicator will be off and the EPS starts to function.



Each trouble code consists of 2 digits, denoted by the times of long flash and short flash of EPS MIL indicator. If there is a failure, the EPS indicator will start to flash. Do NOT switch off the machine. Check the flash sequence of EPS indicator. Write down the flash sequence and contact your dealer for diagnosis. Your dealer has the special tool required to diagnose, repair and clear trouble codes. Any codes will disappear once the problem has been diagnosed and repaired by your dealer.

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 MIL indicator light turns off for 3 seconds

Stop operating the vehicle and contact your dealer immediately if the EPS system MIL is flashing or there is a loss of steering assist with the engine running.

VEHICLE DIAGNOSIS Electronic Power Steering (EPS) fault diagnosis and solution

Failure	Probable Reason	Solution	
Steering without assistance	 Wire Connectors have bad contact or are disconnected The fuse blew out Relay damage The controller, motor, or sensor is damaged 	 Check whether wire connectors and pins are fully inserted Replace the fuse (30A) Contact your dealer Contact your dealer 	
Power assist doesn't weigh the same for left and right	 The median output voltage has deviation Controller, motor or sensor is damaged 	2 Contact your dealer	
When system is 'ON', the steering swings to both sides		 Contact your dealer Contact your dealer 	
Steering becomes heavy	 Battery has power loss Air pressure of the tires (front) is insufficient. Motor damage (power reduction) 	 Charge the battery Inflate the tires Contact your dealer 	
System has noise	 Motor damage Gap of lower steering shaft assembly or mechanical steering assembly is too large Installation of lower steering shaft assembly or mechanical steering assembly is loose 	 Contact your dealer Contact your dealer Contact your dealer 	

DECLARATION

Declaration

Declaration of Drivers exposure to noise level

The undersigned :Lai Min jie ,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

Туре	Variant(s)	Version(s)	Commercial name(s) (if available)	Category, subcategory and speed index of the vehicle	The Drivers exposure to noise level result (limit: 86dB(A))
CF500UTR-2	CF1000UTR-2	А	UFORCE500	T1b	85.9 dB(A)
CF500UTR-2	CF1000UTR-2	А	UFORCE800	T1b	85.9 dB(A)

test method 2 of Annex XIII to EU 1322/2014

DECLARATION

Declaration of Vibration declaration

Driver	mass	aws m/s2	CF1000UTR-2	Requirement
	T1	Test run1	1.22	Deviation <10% between test run 1/2
59kg±1kg	T2	Test run2	1.21	Deviation<10% between test run 1/2 and Arithmetic mean,aws<1.25m/s2
	Α	Arithmetic mean	1.22	and Antimetic mean,aws>1.25m/52
98kg±5kg	T1	Test run1	1.17	Deviation < 10% between test run 1/2
	T2	Test run2	1.19	Deviation<10% between test run 1/2 and Arithmetic mean,aws<1.25m/s2
	Α	Arithmetic mean	1.18	and Antimetic mean, aws>1.25m/s2

aws:rms value of the weighted seat vibration acceleration measured during a standard roadway test

The tests have been carried out in accordance with the requirements of Annex XIV to Regulation(EU) No 1322/2014

CFMOTO LIMITED WARRANTY CFMOTO LIMITED WARRANTY

ZHEJIANG CFMOTO POWER CO., LTD gives a limited warranty on all components of your CFMOTO Vehicle against defects in material or workmanship within the period and under the conditions described below.

This warranty covers parts and labor charges for repair or replacement of defective parts and begins on the date of purchase by the original retail purchaser. This warranty is transferable to another owner during the warranty period through a CFMOTO dealer, but any such transfer will not extend the original term of the warranty.

LIMITATIONS OF LIABILITY

THIS WARRANTY IS EXPRESSLY GIVEN AND ACCEPTED IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT THEY CAN NOT BE DISCLAIMED, THE IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE LIFE OF THE EXPRESS WARRANTIES. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY. SOME STATES/PROVINCES DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS AND EXCLUSIONS IDENTIFIED ABOVE, AS ARESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH MAY VARY FROM STATE TO STATE, OR PROVINCE TO PROVINCE.

Neither the distributor, CFMOTO dealer nor any other person has been authorized to make any affirmation, representation or warranty regarding the product, and other than those contained in this limited warranty, if made, shall not be enforceable against CFMOTO. CFMOTO reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the products sold while this warranty is in effect.

CFMOTO LIMITED WARRANTY

REGISTRATION

The Dealer must register the vehicle online and provide the completed registration form to ZHEJIANG CFMOTO POWER CO., LTD within ten (10) days of completing the sale of the vehicle. Please note that NO warranty claims will be processed unless the product warranty online registration form is completed and the form is received by ZHEJIANG CFMOTO POWER CO., LTD from the Dealer. Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

EXCLUSIONS-ARE NOT WARRANTED

The following are not warranted under any circumstances:

1. Normal wear and tear;

2. Damage caused by abuse, abnormal use, neglect or operation of the product in a manner inconsistent with the recommended operation described in the Owner's Manual;

3. Damage caused by failure to provide proper maintenance and/or storage, as described in the Owner's Manual;

4. Damage resulting from removal of parts, improper repairs, service, maintenance, or use of parts not manufactured or approved by CFMOTO or resulting from repairs done by a person that is not an authorized servicing CFMOTO dealer;

- 5. Routine maintenance items, tune-ups, adjustments;
- 6. Damage resulting from accident, submersion, fire, theft, vandalism or any force majeure;

7. Operation with fuels, oils or lubricants which are not suitable for use with the product (see the Owner's Manual);

- 8. Damages from rust, corrosion or exposure to the elements;
- 9. Damage resulting from water or snow ingestion;
- 10. Damage resulting from the racing or any other competitive activity
- 11. Damage resulting from use of vehicle as a rental vehicle.

CFMOTO LIMITED WARRANTY

12. Damage resulting from the vehicle has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use;

13. Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income etc.

WARRANTY COVERAGE PERIOD

This warranty will be in effect from the date of delivery to the first retail consumer. For the applicable period below:

Twelve (12) CONSECUTIVE MONTHS, for private use owners. Any vehicles used for commercial purposes will have their warranty period reduced to six (6) months.

This warranty period is the CFMOTO factory's basic warranty period, and the duration of this warranty may vary by international region based upon local laws, regulations and distributors' policy. Please Note the warranty period you get from dealers may the same or more than this limited warranty, but not less.

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.

LIMITATIONS OF WARRANTIES AND REMEDIES

The CFMOTO limited warranty excludes damages or failures caused by abuse, accident, fire, or any other cause other than a defect in materials or workmanship and provides no coverage for consumable components, general wear items, or any parts exposed to friction surfaces, stresses, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items:

- Bushings
- Wheels and tires
- Suspension components
- Seat components
- Clutches and components
- Steering components
- Batteries
- Light bulbs/Sealed beam lamps
- Filter
- Lubricants

CFMOTO LIMITED WARRANTY

- Bearings
- Finished and unfinished surface
- Engine components
- Drive belts
- Hydraulic components and fluids
- Circuit breakers/Fuses
- Spark plugs
- Sealants
- Coolants
- Bearings

CONDITIONS TO HAVE WARRANTY COVERAGE

This warranty coverage is available only if each of the following conditions has been fulfilled:

1. The CFMOTO Vehicle must be purchased as new and unused by its first owner from a CFMOTO dealer authorized to distribute CFMOTO Vehicle in the country in which the sale occurred;

2. The CFMOTO specified predelivery inspection process must be completed and documented and signed by the purchaser;

3. The CFMOTO Vehicle must have undergone proper registration by an authorized CFMOTO dealer;

4. The CFMOTO Vehicle must be purchased in the country in which the purchaser resides;

5. Routine maintenance outlined in the Owner's manual must be timely performed in order to maintain warranty coverage. CFMOTO reserves the right to make warranty coverage contingent upon proof of proper maintenance. CFMOTO will not honor this limited warranty to any private use owner or commercial use owner if one of the preceding conditions has not been met. Such limitations are necessary in order to allow CFMOTO to preserve both the safety of its products, and also that of its consumers and the general public.

CFMOTO LIMITED WARRANTY HOW TO OBTAIN WARRANTY SERVICE

The customer must cease using the CFMOTO Vehicle upon the appearance of an anomaly. The customer must notify a servicing CFMOTO dealer within three (3) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it. The customer must also present to the authorized CFMOTO dealer, proof of purchase of the product and must sign the repair/work order prior to starting the repair in order to validate the warranty repair. All parts replaced under this limited warranty become the property of CFMOTO.

WHAT CFMOTO DEALER WILL DO

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.

EXPORTED PRODUCTS

EXCEPT WHERE SPECIFICALLY REQUIRED BY LAW, THERE IS NO WARRANTY OR SERVICE BULLETIN COVERAGE ON THIS PRODUCT IF IT IS SOLD OUTSIDE THE COUNTRY OF THE SELLING DEALER'S AUTHORIZED LOCATION. This policy does not apply to products that have received authorization for export from CFMOTO. Dealers may not give authorization for export. You should consult an authorized dealer to determine this product's warranty or service coverage if you have any questions. This policy does not apply to products registered to government officials or military personnel on assignment outside the country of the selling dealer's authorized location. This policy does not apply to Safety Bulletins.

5UW#-380102-2300 EU206

СЕМОТО

ZHEJIANG CFMOTO POWER CO., LTD.

No.116,Wuzhou Road,Yuhang Economic Development Zone, Hangzhou 311100,Zhejiang Province,China Tel: 86-571-86258863 Fax: +86-571-89265788 E-mail: service@cfmoto.com.cn http://global.cfmoto.com