

# CF600UU CF600UZ

READ THIS MANUAL CAREFULLY It contains important safety information This ROV should not be ridden by anyone under 16 years of age. Passenger under 12 are prohibited.

## OWNER'S MANUAL

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## Foreword

#### Welcome

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

CFMOTO is an international company that specializes in the development, manufacture, and marketing of all-terrain vehicles, utility vehicles, large displacement motorcycles, and their core components. Founded in 1989, CFMOTO is devoted to the development of independent brand cultivation and R&D innovation. CFMOTO products are currently distributed through more than 2000 companions worldwide in more than 100 countries and regions. CFMOTO is edging into the advanced ranks in the world of powersports, 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, quality, or configuration of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. CFMOTO reserves the right to change product features, specifications and components without notice or incurring obligation to the purchaser. Depictions and/or procedures within are intended for reference use only. The most current version of this manual may be available on the CFMOTO consumer website of the market you reside in.

#### WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

## EVAP System (Evaporative Emission Control System)

#### (If equipped)

When required by environmental emissions regulations, this vehicle is manufactured with a fuel evaporation system (EVAP) to prevent fuel vapors entering the atmosphere from the fuel tank and fuel system.

During routine maintenance, visually inspect all hose connections for leaks or blockage. Ensure the hoses are not clogged or kinked, which could damage the fuel pump or distort the fuel tank. No other maintenance is necessary.

Contact your dealer if repair is required. Do not modify the EVAP system. Modifying any part of this system will violate environmental emissions regulations.

## **Catalytic Converter**

#### CAUTION: Please pay attention to the following to protect your catalytic converter:

- Use only unleaded gasoline. Even gasoline that contains a little lead could damage the reactive metals contained in the catalytic converter and disable it.
- Never add rust preventive oil or engine oil into the muffler. Doing so could damage the catalytic converter.

#### NOTE

Some features described within this manual may not apply to models sold in North America.

All descriptions and directions given are from the operator's perspective when properly seated.

## **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:

#### MWARNING

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.







#### NEVER:

- · Operate without proper training or instruction.
- Operate on public roads. A collision can occur with another vehicle.
- · Operate on paved roads. Pavement may seriously affect handling and control.
- Operate at speeds too fast for your skill, conditions, or the terrain.
- Use ALCOHOL or DRUGS before or while driving this vehicle.

#### ALWAYS:

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

## FOREWORD READ THE OWNER'S MANUAL

## FOLLOW ALL INSTRUCTIONS AND WARNINGS

#### **WARNING**

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

**WARNING** 

The engine exhaust gas from this product contains CO, which is deadly gas and could cause headaches, giddiness, loss of consciousness, even death. Always avoid starting the vehicle in areas with poor ventilation.

#### INTRODUCTION

## Introduction

Thank you for purchasing a CFMOTO vehicle, and welcome to our world-wide family of CFMOTO enthusiasts.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Information about major repairs are outlined in the CFMOTO Service Manual, and should only be performed by a CFMOTO service dealer and technician. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.

#### If you have questions or concerns about your vehicle

All questions or concerns related to your vehicle should be directed to your local CFMOTO dealer first. Your dealer knows your vehicle best and is interested in your total satisfaction. In the event your local dealer is unable to resolve a product issue or concern, you can reach a CFMOTO customer service representative depending on the market you reside in:

**For USA:** Please contact CFMOTO POWERSPORTS, INC. TEL: 763-398-2690, by e-mail: info@ cfmotousa.com, or online: https://cfmotousa.com/customer-care/customer-care-contact. Please note that customer service does not have authority to approve or deny warranty, and cannot provide technical repair data, diagnosis, or instructions.

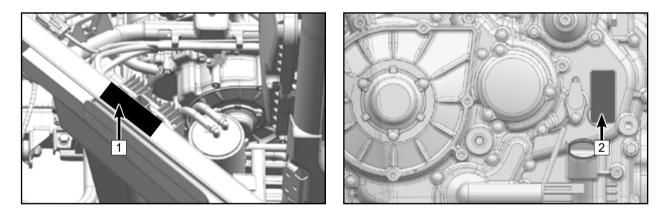
**For CANADA:** Please contact CANADA MOTOR IMPORT INC. TEL: 1-418-227-2077, or online: https:// www.cfmoto.ca/en/customer-care/.

For a safety concern related to your Canadian vehicle, you may report your concern to Transport Canada Defect Investigation and Recalls Division by mail, telephone, or online using the contact information below: Mailing address: Transport Canada - ASFAD, 330 Sparks Street, Ottawa, ON, K1A 0N5 TEL: 819-994-3328 (Ottawa-Gatineau area or international) or toll-free: 1-800-333-0510 (In Canada) Online: http://www.tc.gc.ca/recalls

#### 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.



- 1. Vehicle Identification Number: \_\_\_\_\_
- 2. Engine Serial Number: \_\_\_\_\_ \_\_\_\_\_

## Specifications

	UFORCE 600	
ltem	CF600UU	CF600UZ
	(EVAP)	(Non-EVAP)
Overall Length	111 in. (2820 mm)	
Overall Width	57.9 in. (1	1470 mm)
Overall Height	76.8 in. (1950 mm)	
Wheel Base	76.8 in. (1950 mm)	
Ground Clearance	10.6 in. (270 mm)	
Minimum Turning Radius	187 in. (475 cm)	
Basic Weight	1355.8 lb. (615 kg)	
Rear Cargo Box Weight Capacity	551.2 lb. (250 kg)	
Maximum Vehicle Load Allowed	1065 lb. (483 kg)	
Recommended Towing Capacities:		
Towing Hitch Weight	150 lb. (68 kg)	
Trailer and Cargo Weight	1500 lb. (680 kg)	
Engine Model And Type	191S	
Туре	Single cylinder, 4-stroke, liquid-cooled, 4 valves, SOHC	

	UFORCE 600	
Item	CF600UU (EVAP)	CF600UZ (Non-EVAP)
Bore × Stroke	91 mm	×89.2 mm
Displacement	58	80cc
Compression Ratio	10	0.68:1
Starting Type	Elect	tric start
Lubrication Type	Pressure / Sp	plash lubrication
Engine Oil:	SAE 5W-40 / SAE 10W-40 / SAE 15W-40	
Туре	(See page 85 for oil viscosity chart)	
Engine Oil Volume:	2.96 qt. (2.8 L)	
Capacity Change / Oil Filter	2.54 qt. (2.4 L)	
Coolant:		
Туре	Commercially available – Safe for aluminu engines	
Total Capacity (without reservoir capacity)	3.8 qt. (3.6 L)	
Coolant changing capacity (without reservoir capacity)	3.7 qt. (3.5 L)	
Reservoir capacity (lower line ~ upper line)	0.32 qt (0.3 L) ~ 0.62 qt (0.59 L)	
Mix Ratio	50% coolant / 50% distilled water	

	UFORCE 600	
Item	CF600UU (EVAP)	CF600UZ (Non-EVAP)
Front gear case Oil:		
Туре	SAE 80W-90 GL-5	
Volume:		
Periodic Oil Change	8.45 oz (250 mL)	
Rear gear case Oil:		
Туре	SAE 80W-90 GL-5	
Volume		
Periodic Oil Change	13.52 oz (400 mL)	
Air Filter	Paper type and foam pre-filter	
Fuel Type	89 or higher un	leaded gasoline
Fuel Tank Capacity	89 or higher unleaded gasoline	
Fuel Reserve Amount At Fuel Gauge 'Flash'	9.25 gal. (35 L)	
(Approximate)	1.32 gal. (5 L)	

Item		UFORCE 600		
		CF600UU (EVAP)	CF600UZ (Non-EVAP)	
Spark Plug Type		DCPR8E (NGK)		
Spark Plug Ga	Spark Plug Gap		0.031 in ~ 0.035 in (0.8 mm ~ 0.9 mm)	
	Transmissio	n	CVT + Gearbox	
	Gear Shift/C	Order	Manual / L—H—N—R—P	
<b>_</b>	CVT Ratio		0.67~3.02	
Transmission		Low Gear	2.533	
	Gear Ratio	High Gear	1.35	
		Reverse	2.071	
Chassis Frame		Steel tube		
Tires:				
Type Tubeless		eless		
Front		25×8.00 R12 60G		
		(26×9.00 R12 66J)		
Rear		25×10.00 R12 70G		
		(26×10.00 R12 69J)		
Wheel Bolt Pat	Bolt Pattern 4x110mm		0mm	

	UFOF	RCE 600	
ltem	CF600UU	CF600UZ	
	(EVAP)	(Non-EVAP)	
Tire Pressure:			
Front	Suggest pressur	Suggest pressure: 10 PSI (70 kPa)	
	Load > 195 kg	: 11 PSI (80 kPa)	
Rear	Suggest pressure	e: 14 PSI (100 kPa)	
	Load > 195 kg:	17 PSI (120 kPa)	
Brake System:	Front axles: Double-disc	/ Rear axles: Double-disc	
	Foot	operated	
Foot Brake Type / Operation	Four w	heel disc	
	Operate	ed by hand	
Parking Brake Type / Operation	Rear wheel mecha	Rear wheel mechanical disc brake only	
Brake Fluid Type	D	DOT 4	
Suspension:			
Front Suspension	Double A-ar	Double A-arm independent	
Rear Suspension	Double A-an	Double A-arm independent	
Shock Absorber:			
Front Shock Absorber	Coiled spri	Coiled spring / Oil shock	
Rear Shock Absorber	Coiled spri	Coiled spring / Oil shock	

	UFOR	UFORCE 600	
ltem	CF600UU (EVAP)	CF600UZ (Non-EVAP)	
Wheel Travel:			
Front Wheel Travel	7.87 in.	(200 mm)	
Rear Wheel Travel	7.87 in.	(200 mm)	
Electrical System:			
Ignition	Elec	tronic	
Charging	Rectified A/C 600	Watt @ 5000 rpm	
Battery	12 Vdc / 3	30 Amp Hr	
	EPS - 40A (If equipped)		
	Main fuse - 40A		
	Headlight - 15A		
	Signal control - 15A		
Fuses	EFI - 15A		
	Fan	- 15A	
	Back-up / spare - 15A		
	Fuel pump - 10A		
	HMI	- 10A	
Light System:	LED light / Halogen	light (Select markets)	
Headlight:	LED / Halogen la	LED / Halogen lamp(HS1 35/35W)	

## **Operator Safety**

#### **General Safety Precautions**

#### **WARNING**

Failure to heed 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 passengers.

#### **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, environment protection and danger information, etc.

#### **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:

- Use only an approved gasoline container to store fuel.
- Never fill the gasoline container in the vehicle cargo box or on the vehicle. An electrical static discharge may ignite the fuel.
- Strictly adhere to proper fueling procedures.
- 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.

#### Fuel Minimum Octane Rating and Safety Warnings

The recommended fuel for your vehicle is 89 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.

#### **WARNING**

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.

#### 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 handhold, 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 or side nets and wear the seat belts at all times when riding.

#### **Terrain Conditions**

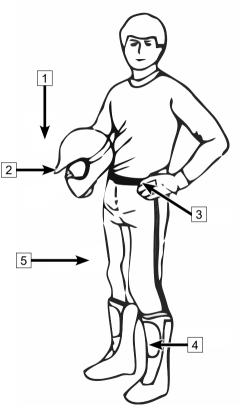
- Avoid sharp turns, abrupt acceleration and sudden braking when passing public roads.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating this vehicle. Take the time to learn how the vehicle performs in different 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.

#### Safe Riding Gear

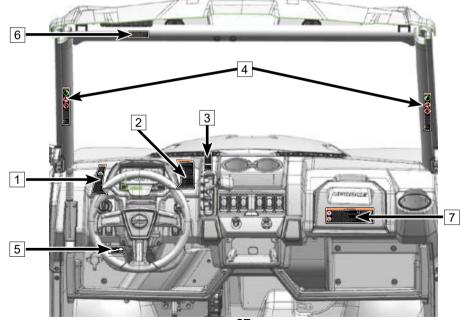
Always wear clothing suited to the type of riding. Operating this vehicle requires wearing special protective clothing for comfort and to reduce the chance of injury:

- 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 shatter-proof 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.
- 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. Warning labels in the owner's manual are for reference.



Safety Labels **AWARNING** Improper Use of 1 Off-Highway Vehicles Can Cause Severe Injury or Death Be Prepared Fasten seat belts and make sure nets or doors are securely latched in place. Wear an approved helmet and protective gear. Each rider must be able to sit with back against seat, foot flat on the floor or on footrest, and hands on steering wheel or handholds. Stav completely inside the vehicle. Rollovers have caused severe injuries and death, even on flat, open areas. 5AS0-190006-6000 US209

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## A WARNING

Drive Responsibly Avoid loss of control and rollovers: • Avoid abrupt maneuvers, sideways sliding, skidding or fishtailing, and never do donuts

 Avoid hard acceleration when turning, even from a stop.

Slow down before entering a turn.
Plan for hills, rough terrain, ruts,



and other changes in traction and terrain.
Avoid paved surfaces.
Avoid side hilling (riding across slopes).

Be Sure Riders Pay Attention and Plan Ahead If you think or feel the vehicle may tip or roll, reduce your risk of injury : ● Keep a firm grip on the steering wheel or handholds and brace yourself.

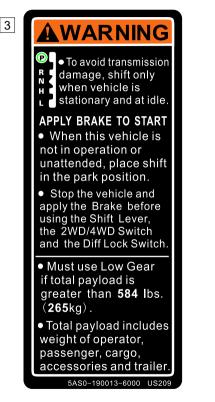
 Do not put any part of your body outside of the vehicle for any reason.

NEVER attach to the cage to pull a load.

 This can cause the vehicle to tip over. Read the Operator's Guide and Safety Labels and Watch the Safety Video.
 Follow All Instructions and Warnings.

5ASV-190007-6H00 US228

Safety Labels





4



f the vehicle rolls over any part of your body such as arms, legs, or nead) outside of the cockpit can be crushed by the cage or other parts of the vehicle. Fasten seat belt and make sure net and/or door is securely latched in place to help you avoid sticking out arms or legs. EVER hold the cage while ridina. VER try to stop a rollover using your arm or leg.

5AS0-190022-6000 US20

#### Safety Labels



6



CFMOTO Powersports, Inc. certifies that this Recreational Off-Highway Vehicle complies with the current voluntary and applicable American National Standards for ANSI/ROHVA safety standards of the U.S. Consumer Product Safety Commission.

5HY0-190009-1 US189





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**Require Proper Use of Your Vehicle** 

Do your part to prevent injuries:

- Do not allow careless or reckless driving.
- Make sure operators are 16 or older with a valid driver's license.
- Do not let people drive or ride after using alcohol or drugs.
- Do not allow operation on public roadscollisions with cars and trucks can occur.
- Do not exceed seating capacity: 2 occupants.
- •Never operate with a passenger under the age of 12.All riders must be able to sit with backs against the seat. Both feet flat on the floor and both hands on the steering
- wheel (if driving) or on a passenger hand hold.

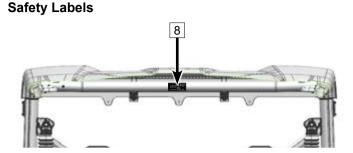


- Improper tire pressure or overloading can cause loss of control.
- Loss of control can result in severe injury or death.
- Cold tire pressure: Front:10 psi(70 kPa) Rear: 14 psi(100 kPa)
- Maximum weight capacity: 1065 lbs. (483kg)

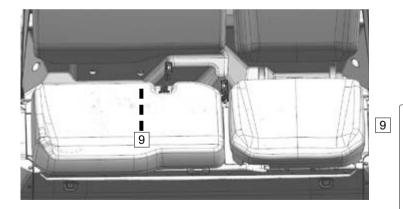
Read the Operator's Guide and Safety Labels and Watch the Safety Video. Follow All Instructions and Warnings.

5AS0-190008-6000 US209

8



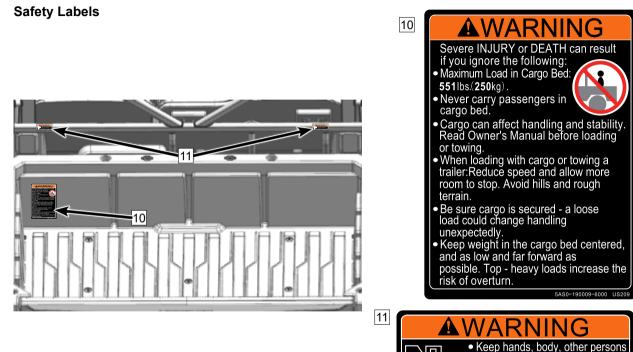
С Г Г МОТО The ROPS meets the performance requirements of ISO 3471: 2008. Vehicle model: CF600UU CF600UZ m=700 kg for ISO 3471: 2008 548V-190014-6D00\_US217





Check engine oil every 500 kilometers (310 miles) Vérifier le niveau d'huile moteur tous les 500 kilomètres (310 miles)

905B-190413-US13C

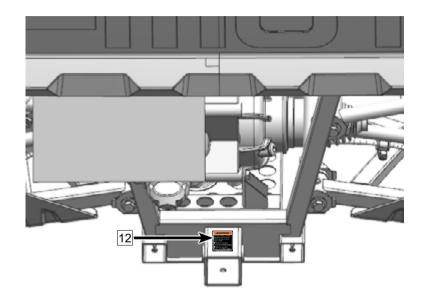


away when closing bed.Do not operate the vehicle with

5AS0-190012-6000 US2

bed up.

#### Safety Labels





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## **Potential Hazard Warnings**

#### **WARNING**

#### 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.

#### **WARNING**

#### 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 lead to accident or injury.

#### HOW TO AVOID THE HAZARD:

Operation is prohibited for anyone under 16 years of age.

## **MWARNING**

#### 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.

#### HOW TO AVOID THE HAZARD:

Never allow carrying more than one passengers.

#### MWARNING

#### POTENTIAL HAZARD:

Operation on paved surfaces such as sidewalks, trails, parking lots, or public highways and streets.

#### WHAT CAN HAPPEN:

All-terrain tires are designed for off-road use. Driving on paved surfaces greatly affects how a vehicle handles, which can result in loss of control and/or an accident.

#### HOW TO AVOID THE HAZARD:

Never drive on paved surfaces. If it is unavoidable, slow down and do not make sudden turning or braking maneuvers.

Never operate on public highways or streets if it is not allowed by law. Check local laws to determine if it is legal to do so.

## **WARNING**

#### 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.

### MWARNING

#### 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.

# **WARNING**

### 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.

# **WARNING**

#### POTENTIAL HAZARD:

Attempting slides, 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 slides, jumps, or other stunts.

# **MWARNING**

### 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.

# **WARNING**

## 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.

# **WARNING**

### 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.

# MWARNING

## 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.

# **MWARNING**

#### 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.

# **MWARNING**

## 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.

# **MWARNING**

#### 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.

# **MWARNING**

### 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.

# **MWARNING**

#### 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.

# **WARNING**

### POTENTIAL HAZARD:

Improperly operating over obstacles.

### WHAT CAN HAPPEN:

Operating over obstacles could cause loss of control or overturn.

## HOW TO AVOID THE HAZARD:

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

# **WARNING**

## POTENTIAL HAZARD:

Skidding or sliding.

#### WHAT CAN HAPPEN:

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

# **MWARNING**

#### 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.

# MWARNING

#### POTENTIAL HAZARD:

Operation the vehicle through deep or fast-flowing water.

#### WHAT CAN HAPPEN:

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.

# **WARNING**

### 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.

# MWARNING

#### 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.

# **WARNING**

### 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.

# **MWARNING**

#### 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.

# WARNING

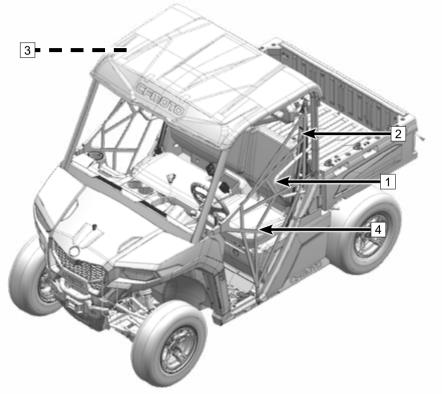
After any overturn or accident, have an authorized dealer inspect the entire vehicle for possible damage, including (but not limited to) brakes, throttle and steering systems.

# **WARNING**

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.

# WARNING

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



# **Controls and Features**

# **Occupant Protection**

## Roll Over Protection System (ROPS) - (1)

ROPS cab frame helps to protect the occupants from injury in case of a rollover or other dangerous situation. Never put your hands and/or feet outside of the vehicle when driving.

#### Safety Belt - (2)

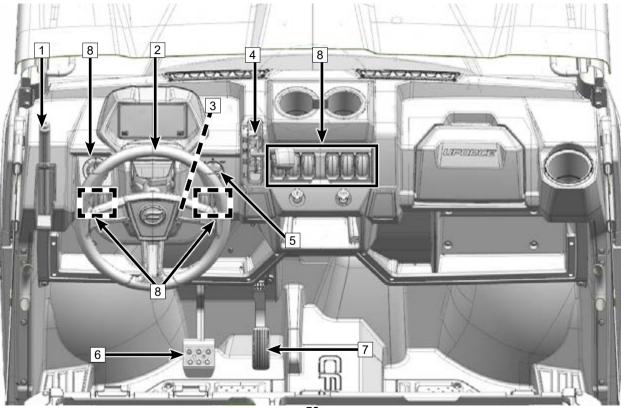
This vehicle is equipped with seat belts to help protect driver and passenger in the event of collisions, rollovers or tip over to keep occupants in the cab. Seat belt indicator light will flash if seat belt is not fastened during driving.

#### Safety Handrail - (3)

There is a handrail at both sides of the vehicle top bar. Holding the handrail allows the passenger to brace against the movement of the vehicle and keep the hands and body inside the cab in case of rollover.

#### Safety Net / Side Doors\* - (4)

Side nets / side doors help to protect the driver and passenger in the cab. Always latch side nets / side doors when driving the vehicle. Make sure the side nets mounting points are fixed securely on the vehicle and buckle the latch into the lock connector (\*Vehicles equipped with side nets or side doors as standard equipment according to selected market).



# **Primary Controls**

## Hand Brake - (1)

This vehicle is equipped with an auxiliary hand brake, which is located at the left of steering wheel. Pull down the lever to apply the mechanical brakes and prevent vehicle movement. If the vehicle is driven without releasing hand brake, the speed will be abnormal.

To release the hand brake, pull the handle lever slightly and depress the release button on top of the level, then push the lever to its original position.

# 

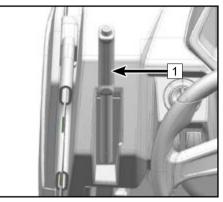
Never depend on the transmission parking feature alone if the vehicle is parked on a hill. Always apply the hand brake and block the wheels on the downhill side of the vehicle to prevent movement. It is recommended to park the vehicle on level ground.

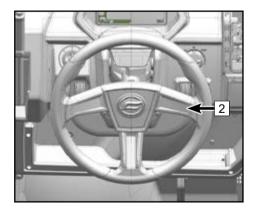
Make sure the hand brake is released before driving the vehicle. Driving without releasing hand brake will lead to wearing of brake pads, causing damage to the brake disc and result in a failure of the brake system.

When the vehicle is moving and the hand brake isn't released completely, the speed will be limited to 7 mph (10 km/h).

# Steering Wheel - (2)

The steering wheel is located in front of driver's seat. Use the steering wheel to turn the vehicle left or right and maneuver the vehicle in the desired direction.





## Tilt Lever and Steering Wheel Lock - (3)

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

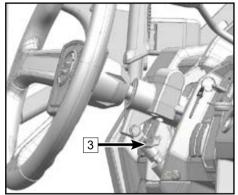
#### Gear Shift Lever - (4)

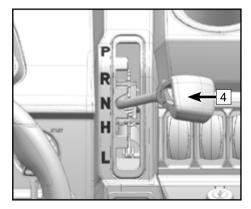
The gear shift lever is located at the right side of steering wheel. Use for changing the transmission gear selection. Apply brake pedal before shifting gear, to ensure personnel safety.

L – Low Gear. 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 speeds below 19mph (30 kph), pulling a trailer, carrying heavy cargo, going over obstacles, or driving up and down hills.

H- High Gear. The high speed range of the gearbox. It is for normal driving speeds over 19mph (30 kph) and allows the vehicle to reach maximum speed.





N-Neutral. In neutral position the engine power output is disengaged.

R – Reverse. The reverse gear position allows the vehicle to go backwards. Speed is limited to 15mph (25 kph) in reverse.

P – Park. The park position locks the gearbox to help prevent vehicle from movement.

# Key Switch - (5)

Key switch is located at the right of steering wheel, use to start the vehicle power source or start engine.

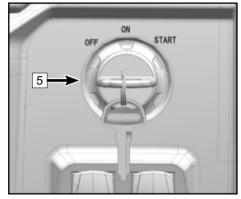
OFF: Turn the key to this position, vehicle power source is off and engine does not start.

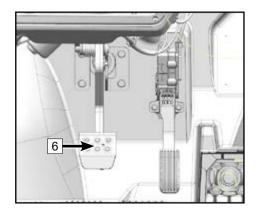
ON: Turn the key to this position, vehicle power source is on, electrical function is available.

START: Turn the key to this position, vehicle power source is on, and engine start.

#### Brake Pedal - (6)

The brake pedal is located at the left side of throttle pedal. Release throttle pedal and apply brake pedal to reduce speed or stop the vehicle.



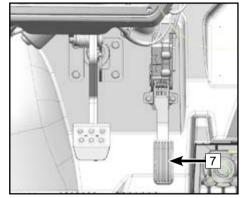


# Electronic Throttle Pedal - (7)

The Electronic throttle pedal is located to the right 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.

The electronic throttle and electronic throttle body system has the following functions:

- Starting protection function: The vehicle can start directly on N and P gear, and requires the foot brake applied to start when the gearbox is in L or H gear.
- 2. Reverse speed limit function: The vehicle speed is limited to 15 mph (25kph) while it is in reverse gear.



- 3. 4WD-LOCK limit function: In 4WD-LOCK mode, the vehicle speed is limited to 22 mph (35 kph). Pressing the override button while in 4WD-LOCK mode removes the speed limitation.
- 4. Idling function: When the vehicle is in N gear, engine RPM is limited to 5000rpm.
- 5. Brake priority function: When the driver applies both brake pedal and throttle pedal at the same time, the electronic throttle body will return to idle automatically.
- 6. Limp home function: When a fault of the electronic throttle body or electronic throttle pedal is detected, the system will enter into torque limitation or limp home mode. If a fault occurs in the electronic throttle body, the engine will enter into torque limitation and RPM returns back to be idle state. If a fault occurs in the electronic throttle pedal, the vehicle will enter into limp home mode, and the top RPM will be less than 5000rpm.

# **Secondary Controls**

Switch - (8)

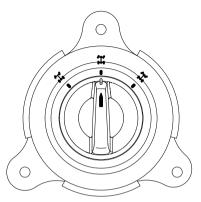
## 2WD / 4WD Switch

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

	2WD - When the switch is on this position, power is supplied to the rear wheels only.
8447 1+41	4WD - When the switch is on this position, power is supplied to both front and rear wheels.
	4WD-LOCK - When the switch is on this position, 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 kph). unless override is used.

# MWARNING

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.



## Main Light Switch

The main light switch consists of 3 positions. Turn the switch to select the following functions:



When the switch is on this position, head light, position light, tail light and instrument light are 'on'.

When the switch is on this position, position light / tail light will be 'on' and head light will be 'off'.



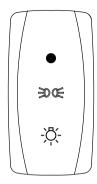
When the switch is on this position, all lights are turned off.

## Note:

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

# 

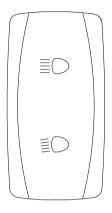
Do not use the headlights with the engine turned off for more than 15 minutes. The battery may discharge to a point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.



## **Dimmer Switch**

Dimmer switch consists of two positions, apply the related switch according to following function selection:

	When the switch is on this position, high beam works.
ĒO	When the switch is on this position, low beam works.



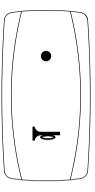
#### Horn Switch

(If equipped-available only in select countries)



Press this switch to sound the horn.

When the switch rebounds back to this position, the horn will not sound.



## Hazard Switch

(If equipped-available only in select countries)



When the switch is on this position, front and rear turning light will flash. The hazard switch indicator light in the dashboard will be on.

When the switch is on this position, front and rear turning light will stop flashing. The hazard switch indicator light in the dashboard will be off.



## **Override Switch**

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

Release the throttle, then press and hold the override button. The override indicator light will be 'on'.

Continue to press the button, then reapply the throttle. The engine will have full power.

Release the button to restore the speed limiting function.



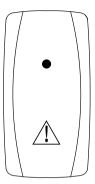
When the button is on this position, speed limitation is canceled.

When the button is on this position, the vehicle is normally speed limited.

## NOTE: Override button is not active in 2WD or 4WD mode.

## **WARNING**

Do not press override button when vehicle is in speed limiting mode and the throttle is open. Pressing the override button while the throttle is open may cause sudden acceleration, resulting in a loss of control, severe injury, or death. Always release the throttle before pressing the override button.



#### Mode Switch:

NORMA	When the switch is on this position, the vehicle is in 'NORMAL' mode. The dashboard display will also shift to 'NORMAL' mode. The vehicle will have a less aggressive throttle response for smooth starts and is intended for flat trails, hard pack ground, etc. Use for light-duty riding.
	NOTE: Do not use this mode for driving situations that
	place high load on the CVT belt. Damage may occur.
	When the switch is on this position, the vehicle is in 'WORK'
	mode. The dashboard display will also shift to 'WORK'
WOR	mode. The vehicle will have a faster throttle response.
	NOTE: Use this mode for work loads, complex terrain
	or trails, and other driving situations that can place a
	high load on the CVT belt.

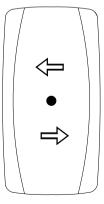
#### Turning Light Switch

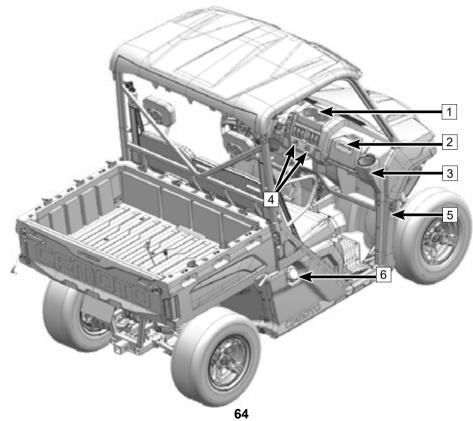
(If equipped-available only in select countries)

Turning light switch consists of 3 positions, choose the related position according to the function icons:

Ð	When the switch is on this position, left turning light flashes.
ſ	When the switch is on this position, right turning light flashes.
•	When the switch is on this position, turning light is off.







# Vehicle Features

## Cup Holder - (1)

For holding beverages.

## Glove Box - (2)

The glove box is located in the front of passenger seat. A wired winch controller is located in the front glove box.

## Cup Holder - (3)

In front of the passenger seat. For holding beverages.

### Accessory Power Ports- (4)

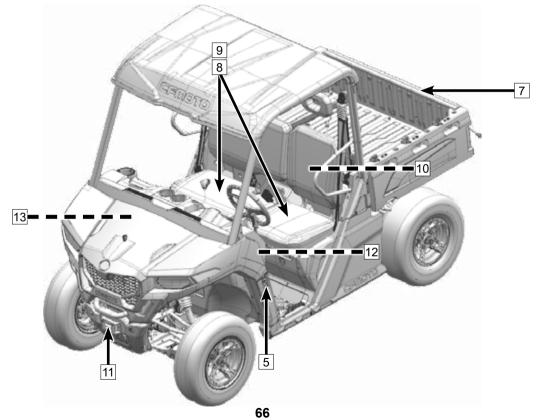
Auxiliary 12Vdc power and USB outlets are provided for operating accessories such as hand-held spot lights and charging electronic devices. Please consult with your dealer on the use of powered accessories with your vehicle.

#### LH & RH Front Hood Clasps- (5)

Loosen the LH & RH clasps of front hood, then lift forward to gain access to electrical parts, coolant system and braking system for inspection or maintenance.

#### Fuel Cap - (6)

The fuel cap is located at the side of passenger seat, near the seat. Before filling with fuel, grip and turn the cap counter-clockwise to remove it. Reinstall the fuel cap after filling fuel. Fuel tank volume is 9.24 gallons (35L).



## Cargo Box and Tilt Feature - (7)

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 (maximum angle is less than 45°) for maintenance or to dump material.

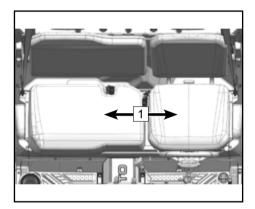
## Seat - (8)

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 the desired position. Two storage boxes are located under the driver and passenger seat for storing tools and other items.

Removal of the driver seat allows access to the ECU and EFI diagnostic connector located in the seat back area.

Removal: Pull up the rear part of seat 1 to release the grommet pins, then pull out backward to remove the seat base tabs from the slots.

Installation: Insert seat base tabs into the slots, then align the grommet pin and press the seat to install.



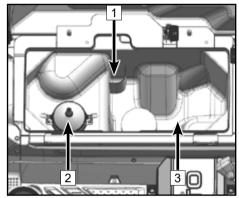
### Seat Storage - (9)

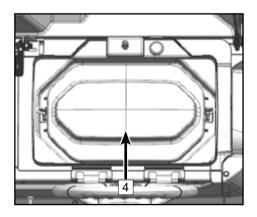
This vehicle is equipped with storage boxes under the driver and passenger seats to store items and tools such as the funnel2, fill hose and tool kit1. The storage box under the driver seat is waterproof.

Removal of the storage boxes allow access to parts of the engine area for inspection and maintenance.

Removal: Remove the seat bases. Take out the passenger side storage box  $\boxed{3}$  first, then take out driver side storage box  $\boxed{4}$ .

Installation: Install the driver side storage box first, then install the passenger side storage box.



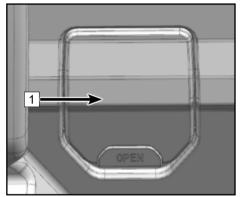


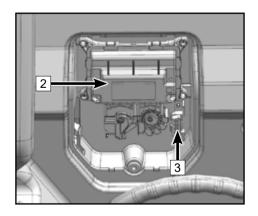
# ECU and Fault Diagnosis Connector - (10)

ECU[2] and fault diagnosis connector[3] are located behind the driver seat.

Removal: Grasp the lower edge of ECU cover 1, pull out to release the grommet pin, then remove the cover.

Installation: Insert the tabs into the corresponding holes, align the grommet pin and press.



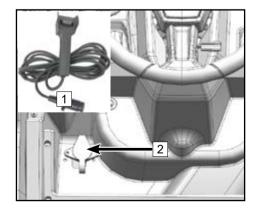


### Winch - (11)

This vehicle is equipped with a 3500-lb. winch, with a standard wired controller that is typically stored inside the front storage box. Only operate the winch when engine is running to keep the battery capacity. Read the winch operation section in this manual before operating or consult with your dealer on proper winch use.

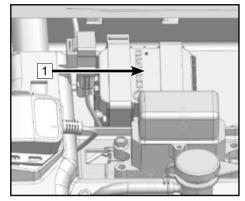
#### Wired Winch Cable Controller Power Port - (12)

This vehicle is equipped with a wired winch controller 1, which can be designated for use. The power port 2 is located on the lower left side of the steering wheel.



# Telematics BOX (T-BOX) (If equipped) - (13)

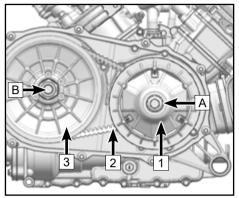
CFMOTO vehicles are equipped with an intelligent vehicle terminal T-Box 1. It build the communication bridge between the owner and vehicle through CFMOTO RIED APP. Please search and download CFMOTO RIED APP.



# **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 (1), which is an advanced form of centrifugal clutch that is mounted to the engine crankshaft (A).



The secondary clutch (3) 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 (2) 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.

# How to Avoid CVT Drive Belt and Clutch Failures

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

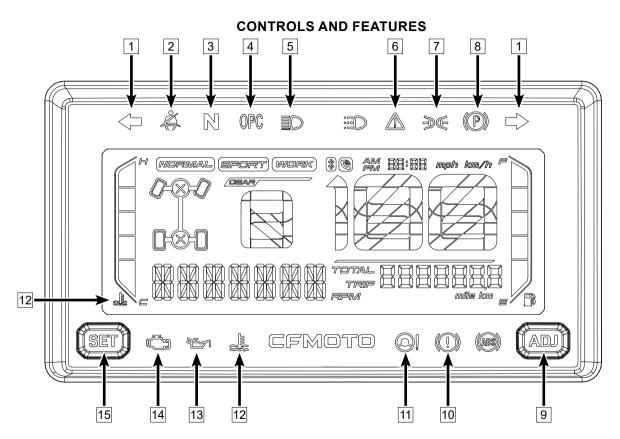
Causes CVT damage:	Solution:
Attempting to load the vehicle onto a truck bed or tall	Shift transmission to low gear during loading of the
trailer in high gear.	vehicle to prevent belt burning.
Starting out on a steep incline in high gear.	When starting out on steep inclines, use low gear.
Constant driving at low RPM, driving at just above clutch	Low gear is highly recommended for cooler CVT
engagement RPM, or at low speed (approximately 3mph ~	operating temperatures and longer component life. Drive
7mph [5km/h ~ 10km/h]) in high gear.	at a higher speed or use low gear more 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 thrattle and easy CV/T angagement	Use the throttle with purpose and effectively for
Slow throttle and easy CVT engagement.	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.
	<b>WARNING:</b> Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position.	Shift the transmission to low gear, and carefully use fast, brief, aggressive throttle application to engage the CVT.
	<b>WARNING:</b> 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.

#### NOTE:

Low gear is the preferred transmission gear selection when:

- Constant driving speeds are lower than 19 mph (30kph)
- Driving on level road surfaces, and the vehicle is carrying/towing more than 584 lb. (265kg)
- Driving on muddy or rough road surfaces, and the vehicle is carrying/towing more than 430 lb. (195kg)



# **Dashboard Indicators and Warnings**

1	Turning light	6	Override indicator	11	EPS indicator
2	Seat belt warning indicator	7	Position light	12	Coolant temp. warning indicator
3	Neutral indicator	8	Parking brake indicator	13	Oil pressure signal indicator
4	OPC indicator	9	ADJ - mode adjust button	14	EFI fault indicator
5	High beam indicator	10	Brake fault warning indicator	15	SEL - mode select button

#### NOTE :

Turning light is available only in select countries.

#### **Indicators and Warnings**

# 1. Turning Light (If equipped)

When switch turns to right turning light position, the right turning indicator will be on. When switch turns to left turning light position, the left turning indicator will be on.

## 2. Seatbelt Warning Indicator

Seatbelt Reminder. This indicator displays when the seat belt is not fastened. The latch plate is not pushed securely into the buckle, the indicator on the dashboard will be on.

#### 3. Neutral indicator

This indicator displays when the transmission is in neutral position.

#### 4. OPC Indicator

When the driver leaves the seat without shifting to the parking position, this indicator will be on and alarm sounds.

#### 5. High Beam Indicator

This indicator illuminates when the headlight switch turns to high beam position.

## 6. Override Indicator

When pressing the override button, the indicator is on and 4WD-LOCK speed limitation will be released in this state.

## 7. Position Light Indicator

This indicator illuminates when the light switch turns to position light.

#### 8. Parking Brake Indicator

This indicator displays when parking brake function is activated.

#### 9. ADJ - Mode Adjust Button

Use this key together with "SEL" key to set the information on dashboard.

#### 10. Brake Fault Warning Indicator

This indicator displays when brake fluid level is very low. Add DOT4 brake fluid and contact your dealer. Low brake fluid level may lead to air in the brake system, causing brake fault and lead to serious accident.

#### 11. EPS Indicator

The indicator will be on when a fault occurs in the Electronic Power Steering system. Please stop the vehicle and contact your dealer to inspect and eliminate the fault. Continuing to operate could lead to permanent EPS damage and increase the steering force.

#### 12. Coolant Temperature Warning Indicator

Both over-low and over-high of the coolant temperature 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.

#### 13. Oil Pressure Indicator

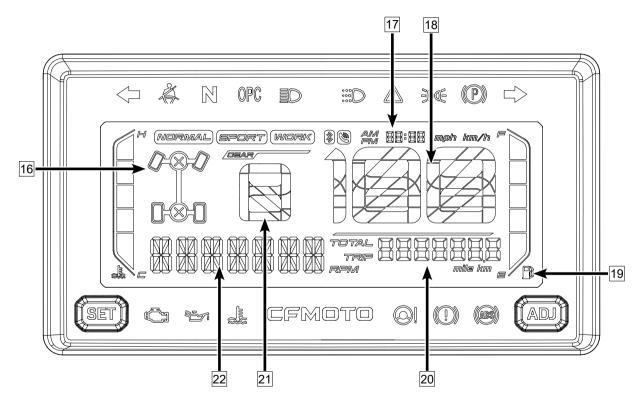
The oil pressure indicator is on when the oil pressure is very low. Please have your vehicle stopped safely at once when the indicator is on, and contact your dealer to eliminate the fault.

#### 14. EFI Fault Indicator

This indicator displays when a fault occurs in the Electronic Fuel Injection system. Please stop the vehicle and contact your dealer to eliminate the fault, or it may result in serious engine damage.

#### 15. SEL - Mode Adjust Button

Use together with "ADJ" key to adjust functions on the dashboard.



## **Dashboard Indicators and Warnings**

16	Drive mode	19	Fuel gauge indicator	22	Engine RPM
17	Clock	20	Rider Information Center		
18	Speedometer	21	Gear position indicator		

#### 16. Drive Mode

Display the current drive mode, there are three modes, 2WD, 4WD and 4WD-LOCK. If the mode is not engaged successfully, the indicator will flash.

#### 19. Clock

Display the current time. This dashboard section can be adjusted to correct time by using the "ADJ" and "SEL" button.

#### 20. Speedometer

Display the current vehicle speed. Speedometer section can be toggled to display the vehicle speed in Kilometers per hour (km/h) or Miles Per Hour (MPH) by the "ADJ" and "SEL" keys.

#### 21. Fuel Gauge / Low Fuel Indicator

Display the fuel level in the fuel tank.

#### 22. Rider Information Center

Indicates the total mileage the vehicle has traveled. Press "SEL" button to toggle to TRIP meter, or engine hour, or EFI fault code, or battery voltage, or dashboard brightness, or EPS fault code.

#### 23. Gear Position Indicator

Displays the current gear position.

#### 24. Engine RPM

Indicate the engine current RPM.

Dashboard Navigation / Settings / Adjustments								
Item	Displays	SEL	ADJ	Operation	Result			
Odometer	Total Distance	Short press		Shifts to trip	Trip			
Trip	Trip Distance	Short press		Shifts to engine hour	Engine hour			
Trip	Trip Distance		Long press	Trip resets to zero	Trip Distance Reset			
Engine hour	Н	Short press		Shifts to EFI fault code	EFI fault code			
EFI fault code	EFI fault code	Short press		Shifts to voltage	Voltage			
Voltage	U	Short press		Shifts to dashboard brightness	Dashboard brightness			
Dashboard	Duinhte coolour	Short press		Shifts to odometer	Odometer			
brightness	Brightness level		Short press	Adjust brightness+1	L-I-g-H-5			
Line a later for a	Home interface	Long press		Shifts to time setting	Hour setting			
Home interface			Short press	Shifts to dashboard brightness	Home interface			
	Hour setting	Short press		Shifts to time setting	Minute setting			
			Short press	Increase 1 / press	Hour setting			
			Long press	Incremental 1-24	Hour setting			
Shifting for time	Minute setting	Short press		Shifts to time unit	12/24 time format setting			
setting, time			Short press	Increase 1 / press	Minute setting			
format and speed			Long press	Incremental 00-59	Minute setting			
unit	12/24 time format setting	Short press		Shifts to unit setting	Speed unit setting			
	12/24 unie iormat setung		Short press	Shifts to time format	12/24 time format setting			
	Linit aatting	Short press		Back to home interface	Home interface			
	Unit setting		Short press	Shifts to speed unit	Speed unit setting			

# **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 vehicle on level ground.
- 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 or side doors, 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 (whichever interval arrives first), 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 (20 hours or 200 miles / 320 km).

# 

During the break-in period:

- 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 or 200 miles / 320 km 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 next 10 hours (or the second 100 miles/160km) of use.
- Do not haul or tow heavy cargo.
- Use of any oil other than those recommended may cause serious engine damage. CFMOTO recommends the use of 5W-40 for 1-cylinder 4-stroke engines. Changing engine oil viscosity to 10W-40 or 15W-40 due to hot environments is acceptable. Reference the chart below for ambient temperature and viscosity choice.

#### **Recommended Engine Oil Viscosity**

				15W-40				
Oil Viscosity				10W-40				
				5W-40				
F٥	-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 check the vehicle according to the "Perform daily before operating the vehicle" checklist in the maintenance section of this manual.

#### **WARNING**

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 pedal is an electrically operated mechanism controlled by an ECU, 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**

**WARNING** 

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. Press 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 only be started when the vehicle is at the neutral gear or parking gear. 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.

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.

If the vehicle can not be started immediately, do not activate the starting system continuously. Failure to start the ignition system multiple times may cause the starting motor to burn out.

# 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 when:

- Constant driving speeds are lower than 19 mph (30kph)
- Driving on level road surfaces, and the vehicle is carrying/towing more than 584 lb. (265kg)
- Driving on muddy or rough road surfaces, and the vehicle is carrying/towing more than 430 lb. (195kg)

# 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.

# 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.

#### **WARNING**

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.

#### 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

# **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

• Utility terrain vehicles handle differently from other vehicles. Utility terrain vehicles are designed to handle off-road terrain (for example, the wheel base and track width, ground clearance, suspension, drive train, 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 or side nets 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 handhold.
- 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 handhold 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 or side nets, 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. (45 m × 45 m), 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 when:

- Constant driving speeds are lower than 19 mph (30kph)
- Driving on level road surfaces, and the vehicle is carrying/towing more than 584 lb. (265kg)
- Driving on muddy or rough road surfaces, and the vehicle is carrying/towing more than 430 lb. (195kg)

## **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.

# **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.

<u>∕</u> MWARNING
Steering inputs in reverse operation increase the risk of rollover.

#### **WARNING**

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.

#### **Riding on Paved Surfaces**

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

#### **Shallow Water Crossing**

Water can be a unique hazard. If it is too deep the vehicle may "float" and topple. Check the water depth and current before you attempt to cross any water. Water depth should not exceed the bottom of the floorboard to safely cross the obstacle.

Beware of slippery surfaces such as rocks, grass, logs, etc., both in the water and on its banks. A loss of traction may occur. Do not attempt to enter the water at high speed. Water will affect the braking ability of your vehicle. Make sure you dry the brakes by applying them several times 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 engine, 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 handhold 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 over-stress the components and cause failure.

#### **Carrying Loads**

The load limit of the vehicle including the weight of operator, passenger, cargo, accessories and trailer towing hitch weight: 1500 lb. (680kg)

Following is an example of suitable total vehicle load distribution:

EXAMPLE OF SUITABLE VEHICLE TOTAL LOADS						
Operator and Passenger         Cargo Box Load         Accessories Storage         Towing Hitch Weight         Total Vehicle Load						
352.7 lb. (160 kg)	551.2 lb. (250 kg)	11 lb. (5 kg)	55.1 lb. (25 kg)	1500lb. (680kg)		

<u></u> <i>M</i> <b>ARNING</b>
Low gear is the preferred transmission gear selection when:
Constant driving speeds are lower than 19 mph (30kph)
Driving on level road surfaces, and the vehicle is carrying/towing more than 584 lb. (265kg)
Driving on muddy or rough road surfaces, and the vehicle is carrying/towing more than 430 lb.

 Driving on muddy or rough road surfaces, and the vehicle is carrying/towing more than 430 lb. (195kg)

## Vehicle Settings When Carrying Loads

If the total load approaches 1500 lb. (680 kg), including weight of operator, passenger, cargo, accessories and trailer Towing Hitch Weight:

- Inflate the tires to maximum pressure: Front: 11 PSI (80 kPa), rear : 17 PSI (120 kPa).
- Readjust the suspension coil spring pre-load 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 receptacle 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.

#### **WARNING**

#### 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 used behind the vehicle, make sure that its hitch is compatible with the one on the vehicle. Make sure the trailer is horizontal with the vehicle. Use 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:

## **WARNING**

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 tow using the hitch point and hardware specifically made for towing. Never exceed the recommended Towing Hitch 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 5 mph (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								
Type of Attachment	<b>Trailer Load Allowed</b>	Trailer Hitch Weight Allowed	Note					
2 in. (51 mm × 51 mm) hitch ball support	1500 lb. (680.4 kg)	150 ID (68kd)	Includes trailer and trailer load					

# Winch Operation

(Select Markets) Your vehicle may be equipped with a winch that can pull certain capacities and types of loads. It is useful for vehicle self-recovery when stuck, assisting another vehicle in recovery, moving fallen trees, removing brush, etc.

Consider practicing the operation and use of your winch before you actually need to use it.

The safety warnings, operating precautions and instructions in this section apply if your vehicle came equipped with a winch, or if you choose to install an accessory winch on your vehicle:

#### Winch Safety Warnings

These safety warnings apply if your vehicle is equipped with a winch, or if you choose to install an accessory winch on your vehicle:

- Read and understand all sections of this manual.
- Improper winch use or failure to correctly follow the winch guidelines, instructions, and warnings in this manual can result in SEVERE INJURY or DEATH.
- Improper or lack of winch maintenance and service could lead to SEVERE INJURY or DEATH.
- Always keep body, hair, clothing, and jewelry clear of the winch cable, fairlead, and hook during winch operation.
- Always keep the area around the vehicle, winch, winch cable and load clear of people, pets, and distractions during winch operation.
- Always wear eye protection and heavy gloves during winch operation.
- Never use alcohol or drugs before or while operating the winch.

- Never allow children under 16 years of age to operate the winch.
- Never attempt to "jerk" a load attached to the winch by moving the vehicle.
- Never winch up or down, or to the sides at sharp angles. This can destabilize the winching vehicle and possibly cause it to move without warning.
- Never attempt to winch loads that weigh more than the winch capacity rating.
- Never touch, push, pull, or straddle the cable while winching a load.
- Never let the winch cable run through your hands, even if wearing heavy gloves.
- Never release the drum on the winch when the winch cable is under load.
- Never use the winch for lifting or transporting people.
- Never use the winch to hoist or suspend a vertical load.
- Never retract the hook fully into the winch. This can cause damage to system components.
- Never operate the winch or the vehicle if they are in need of repair or service.
- Always turn the ignition swtich OFF and unplug the remote control (if equipped) to prevent inadvertent activation or unauthorized use when the vehicle or winch are not being used.

#### Winch Operating Precautions

These operating precautions should always be followed if your vehicle is equipped with a winch, or if you choose to install an accessory winch on your vehicle:

- Always inspect your winch and winch cable before each use.
- Always use the provided hook strap when pulling cable out or guiding cable in. Never grab the hook.
- Always align the load directly in front of the vehicle and winch as much as possible. Avoid winching with the cable at a sharp angle to the winching vehicle's centerline whenever possible.

If winching at an angle is unavoidable, follow these precautions while operating:

- A. Look at the winch drum occasionally. Never let the winch cable "stack" or accumulate at one end of the drum. Too much cable at one end of the drum can damage the winch and cable.
- B. If cable stacking occurs, stop winching. Follow the 'Winch Cable Spooling Guidelines' section in this manual to redistribute the cable evenly before continuing.
- Always apply the vehicle's park brake and/or park mechanism to hold the vehicle in place during ٠ winching. Use wheel chocks when necessary.
- Always maintain at least five full turns of cable wrapped around the winch drum at all times. The • friction provided by the wrapped cable allows the drum to pull on the winch cable and move the load.
- Never grease or oil the winch cable. This will cause the winch cable to collect debris that will shorten ٠ the life of the cable.
- The winch motor and relay connector may become hot during continuous use. When winching for ٠ more than 45 seconds, or if the winch stalls during operation, stop and allow the winch components to cool for a minimum of 10 minutes before using it again.
- Never operate the winch without running the engine. The engine's charging system helps keep • the battery maintained. Battery reserve capacity can be guickly exhausted by heavy winch use, rendering the starting system inoperable.
- Always operate with concern for the environment. Do not purposely damage trees, etc. ٠

#### **Basic Winch Operation**

Follow these operating instructions if your vehicle is equipped with a winch, or if you choose to install an accessory winch on your vehicle. Read Winch Safety Warnings and Winch Operating Precautions on the preceding pages before using your winch.

BEFORE YOU BEGIN - Realize that each winching situation is unique:

- Take your time to think through the winch operation you are about to perform.
- Proceed slowly and deliberately.
- Never hurry or rush during winching.
- Always pay attention to your surroundings.
- Be prepared to change your winching strategy if it is not working.
- Remember that although your winch is very powerful, there are simply some situations that you and the winch will not be able to deal with. Do not be afraid to ask others for help when necessary.
- 1. Always inspect the vehicle, winch, cable and controls for signs of damage or parts in need of repair before each use. Pay particular attention to the first 3 feet (1 meter) of winch cable if the winch is used (or has been used) for lifting a plow. Promptly replace any worn or damaged cable.
- 2. Apply the vehicle's park brake and/or park mechanism to hold the vehicle in place during winching. Use wheel chocks when necessary.
- 3. Release the winch drum and pull out the required length of cable. Always use the hook strap to handle the hook. Never remove the hook strap from the hook.

# CAUTION: Always maintain a minimum of five (5) full turns of cable around the winch drum at all times. The friction provided by wrapping cable allows the drum to pull on the cable and move the load.

4. Attach the hook onto the load, or use a tow strap or chain to secure the load to the winch hook. Never hook the winch cable back onto itself. This can damage the winch cable and result in cable failure.

# WARNING: Never use a 'recovery strap' for winching. Recovery straps are designed to stretch and could release excessive energy that can result in SEVERE INJURY or DEATH if the strap or winch cable breaks. Use only undamaged tow straps or chains that do not stretch.

- 5. Re-engage the winch drum.
- 6. Slowly winch in slack of the winch cable until it is gone, then stop and follow the instructions for 'winch damping' to ensure safe operation:
  - A. Place a damper on the mid-point of winch cable length to absorb energy that could be released by a winch cable failure. A damper can be a heavy jacket, tarp, or other soft, dense object. A damper can absorb much of the energy released if the cable breaks during winching. Even a tree limb can help as a damper if no other items are available to you.
  - B. Lay the damper on top of the mid-point of the winch cable length.
  - C. On a long pull, it may be necessary to stop winching so the damper can be repositioned to a new mid-point. Always release the tension on the winch cable before repositioning the damper.
  - D. Avoid being directly in line with the winch cable whenever possible. Also, never permit others to stand near or in line with the winch cable during winch operation.
- 7. Stop winching as soon as the job is completed or the load can be moved without the help of the winch.
- 8. Detach the winch hook, then rewind the cable evenly back onto the drum following the instructions in this manual.

#### Vehicle Recovery Methods

Vehicle Self-Recovery:

- A. Release the winch drum and pull out the required length of cable.
- B. Whenever possible, pick an anchor point that aligns the winch cable to the vehicle's centerline as close as possible. This will help the spooling of the winch cable and reduce the load on the fairlead.
- C. Attach the winch hook to an anchor point. NOTE: If freeing a stuck vehicle by attaching to a tree, use an item such as a tow strap to avoid damaging the tree during winch operation. Sharp cables and chains can damage and even kill trees. Always respect the environment.
- D. Re-engage the winch drum.
- E. Slowly winch in any slack in the winch cable, then damper it.
- F. Shift to the lowest gear available that will propel the vehicle in the direction of winching.
- G. Carefully apply winch power and throttle together to free the vehicle.

# CAUTION: Using the vehicle throttle and winching at the same time has risk and is optional. Place the vehicle in neutral and use only the winch if unsure of your operating abilities.

- H. Stop winching as soon as the stuck vehicle is able to propel itself without the help of the winch.
- I. Detach the winch hook, then rewind the cable evenly back onto the drum following the instructions in this manual.

CAUTION: The ONLY time a winch-equipped vehicle should be moving and using the winch is for self-recovery. The winch-equipped vehicle should NEVER use motion to "shock-load" the winch cable in an attempt to recover a second stuck vehicle. See 'Winch Shock Loading' section in this manual for more information.

Recovery of Another Vehicle:

- A. Release the winch drum and pull out the necessary length of cable.
- B. Attach the winch hook to the vehicle. Whenever possible, pick an anchor point on the stuck vehicle that aligns the winch cable to the winching vehicle's centerline as close as possible. This will help the spooling of the winch cable and reduce the load on the fairlead.

CAUTION: Never attach the winch hook to a suspension component, brush guard, bumper or cargo rack. Vehicle damage may result. Always attach the hook to the strongest available portion of the vehicle frame or hitch.

- C. Re-engage the winch drum.
- D. Slowly winch in any slack in the winch cable, then damper it.
- E. Shift to the lowest gear available on the stuck vehicle that will propel it in the direction of winching.
- F. Carefully apply winch power and the stuck vehicle's throttle together to free it.
- G. Stop winching as soon as the stuck vehicle is able to propel itself without the help of the winch.
- H. Detach the winch hook, then rewind the cable evenly back onto the drum following the instructions in this manual.

#### Winch Cable Care

Always inspect your winch cable before each use for worn or kinked winch cable. Never use a cable that is damaged. Follow these guidelines for inspection and use:

• A winch cable made of wire rope that is kinked, deformed, or bent is permanently and severely damaged. Promptly discontinue use of a winch cable in this condition.

- A kinked winch cable made of wire rope that has been "straightened out", even though it may look usable, has been permanently and severely damaged. It can no longer achieve its load capacity rating. Promptly discontinue use of a winch cable in this condition.
- A winch cable made of synthetic rope should be inspected for signs of fraying. Replace the cable if fraying is observed. Promptly discontinue use of a winch cable in this condition.
- Replace synthetic winch cable if fused or melted fibers are discovered. The synthetic rope will be stiff and appear smooth or glazed in the damaged section. Promptly discontinue use of a winch cable in this condition.
- Never replace a synthetic winch cable with consumer-grade polymer rope. Only use cable that is specifically designed for winch use.
- Never grease or oil a wire rope winch cable. This will cause the cable to collect debris that will shorten the life of the cable.
- Never operate the winch with a damaged hook or latch. Always replace damaged parts before using the winch.

# WARNING: Replace the winch cable and components at the first sign of damage to prevent SEVERE INJURY or DEATH in the event of failure.

#### Winch Cable Spooling Guidelines

After winching is complete, especially if winching at an angle, it may be necessary to respool the winch cable evenly across the drum. This reduces the chances of the winch cable "wedging" itself between lower layers of cable. You will need an assistant to perform this task:

A. Release the winch drum.

- B. Pull out the winch cable that is wrapped unevenly onto the drum.
- C. Re-engage the winch drum.
- D. Have an assistant pull the winch cable hook strap tightly to apply about 100 lbs. (45 kg) of tension.
- E. Slowly winch the cable in while the assistant moves the end of the cable back and forth horizontally to evenly distribute it onto the drum.

#### Winch 'Shock Loading'

Your winch (if equipped) is designed and tested to withstand the loads produced when operated from a stationary vehicle. Always remember that the winch, cable and components are NOT designed for shock loading. Follow these guidelines:

- Never attempt to "jerk" a load with the winch. For example, never take up cable slack by moving the winching vehicle in an attempt to move an object. This is a dangerous practice that generates high loads which may exceed the strength of the components. Even a slow moving vehicle can create a large shock load which can cause damage.
- Never quickly turn the winch ON and OFF repeatedly ("jogging"). This is a form of shock loading. This puts extra load on the winch components, the cable, and generates excessive heat in the motor and relay assembly.
- Never tow a vehicle or other object with your winch. Towing with a winch produces shock loading even when towing at slow speeds. Towing from the winch also positions the towing force high on the vehicle, which can cause vehicle instability and the possibility of an accident.

- Never use recovery straps with your winch. This is a form of shock loading. Recovery straps are designed to stretch and can store energy. Stored energy in the recovery strap is released if a failure occurs, making the event even more hazardous. Similarly, never use elastic "bungie" cords for winching.
- Never use the winch to tie down the vehicle to a trailer or other transporting unit. This is a form of shock loading that can cause damage to the winch components, the cable, or the transporting unit.

# Maintenance

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

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.

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.

# **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

If your vehicle use matches any of these definitions, decrease the service intervals by 50%.

# 

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.

#### **KEY POINTS OF LUBRICATION SCHEDULE:**

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.

Item Lubricant		Method
Engine oil	SAE 10W-40 / SAE 5W-40 / SAE 15W-40	Screw off, clean, insert and pull out dipstick to check oil level
Brake fluid	DOT4	Keep level between upper and lower lines
Front gear case oil	SAE 80W-90 GL-5	Drain and fill with specified amount
Rear gear case oil	SAE 80W-90 GL-5	Drain and fill with specified amount
Suspension pivots and drive train	All Season Grease	Grease gun-Pump grease until it begins to flow from the pivot point

# **Pre-Ride Maintenance Checklist**

Perform these inspections before operating the vehicle:

ltem			Maintena	nce before op	peration
	item	Hour	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	-	1
	Air filter / Air box and connections	-	Pre-Ride	-	Visually inspect. 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.

	ltem	Maintenance before operation				
	liem	Hour	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	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.		
	Brake pad	20	-	200 (320)	Inspect the thickness.		

► = 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	Break-in Maintenance (Perform at the interval that arrives first)				
		Hour	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 20-hour break-in period:

	ltem	Periodic Maintenance Intervals (Perform at the interval that arrives first)						
		Hour	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.			
	CVT air intake filter screen / filter	50h	-	500 (800)	Clean filter screen or filter, replace with new one if necessary.			
►	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.

	ltem	Periodic Maintenance Intervals (Perform at the interval that arrives first)					
		Hour	Calendar	Miles (km)	Remarks		
►	Front gear case oil	100h	12M	1000 (1600)	Inspect level. Change yearly if hours or distance interval is not met.		
►	Rear gear case oil	100h	12M	1000 (1600)	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. 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.

	H		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.

	Item	Periodic Maintenance Intervals (Perform at the interval that arrives first)					
		Hour	Calendar	Miles (km)	Remarks		
▶ ∎	CVT drive belt	100h	12M	1000 (1600)	Inspect. Replace as necessary. See dealer for service.		
•	CVT drive and driven pulleys	100h	12M	1000 (1600)	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.			
	Graphite seal ring on the exhaust pipe	100h	24M	2000 (3200)	Inspect; Replace if worn or fouled.			
►	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.

Item		Periodic Maintenance Intervals (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.

ltem		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 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.

#### NOTE:

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

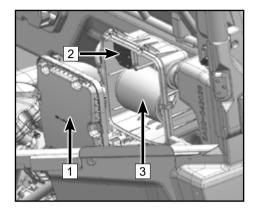
#### Air Filter Maintenance

- 1. Lift the rear cargo box.
- 2. Remove the six clasps and remove the air filter cover (1).
- 3. Remove the four screws and the sponge filter element (2).
- 4. Inspect the sponge filter element (2) and confirm it could be reinstalled, clean it if necessary. Replace with new filter element (2) if necessary.
- 5. Remove paper filter element (3).
- 6. Inspect the paper filter element (3) if could be reused. Brush the dust gently if necessary. Replace with a new filter element (3) if necessary.

#### NOTE:

#### Never attempt to wash the filter.

- 7. When reinstalling the air filter, inspect the sealing ring for dirt, oil or water deposits, and wipe with clean cloth.
- 8. Apply a layer of lubricating oil on the inner diameter of air filter rubber sealing ring, and install the filter element.
- 9. Install air filter cover (1), verify proper installation and proper sealing.



#### 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.

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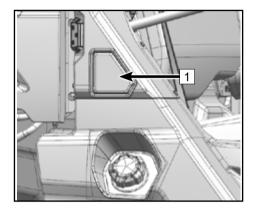
Do not operate the engine without an air filter element. Unfiltered air entering into the engine can cause engine wear and damage. Driving without an air filter will also decrease performance and can lead to engine overheating.

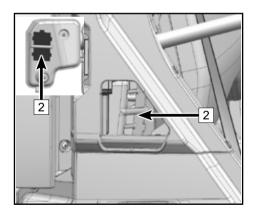
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Major engine damage can result in the vehicle if water has been ingested into the air filter housing, and engine. Have the vehicle serviced by your dealer promptly if your vehicle becomes immersed or stalls in water that exceeds the footrest level. 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 Air Intake Deflector

- 1. Remove the right access cover (1).
- 2. The filter element (2) behind the engine air intake deflector is visible.
- 3. Take out the filter element (2) ,inspect and check if it can be reinstalled. Clean the filter element (2) if necessary, or install with new filter element if necessary

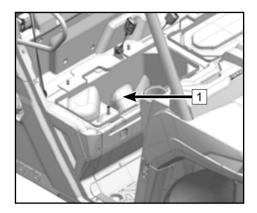


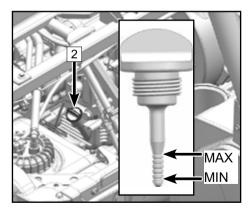


#### Inspect The Engine Oil Level

Always inspect and change the engine oil at the intervals outlined in the Maintenance Schedule.

- 1. Place vehicle on level ground with transmission in park.
- 2. Start the engine and idle for 30 seconds, then stop the engine.
- 3. Wait for a few minutes to allow the engine oil to settle down inside the engine.
- 4. Remove passenger seat and the storage box (1) under the seat.
- 5. Remove the oil dipstick (2) and clean it.
- 6. Insert the oil dipstick into the dipstick hole (do not fully reinstall it).
- 7. Remove the oil dipstick and verify the oil level is between upper and lower mark. Maintain the oil level as necessary.
- 8. Reinstall the oil dipstick and tighten it. Reinstall the storage box and passenger seat.





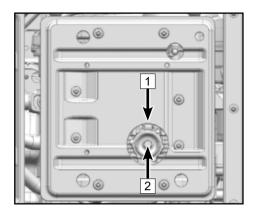
# Change the Engine Oil

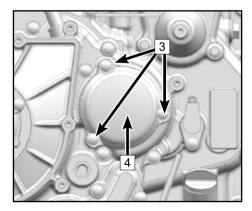
- 1. Place vehicle on level ground with the transmission in park.
- 2. Start the engine and warm for (2~3) minutes, then stop the engine.
- 3. Place a pan under the engine oil drain hole 1 to collect the used engine oil.
- 4. Remove the dipstick and wipe it clean.
- 5. Remove the magnetic drain bolt and washer 2 to drain out the oil.
- 6. Confirm the engine oil is drained completely.
- 7. Remove the three bolts 3 on the oil filter cover.
- 8. Remove the oil filter cover 4.
- 9. Inspect the O-ring 6 in the cover, to ensure it is in good condition. Replace with a new one if damaged.
- 10. Mount O-ring 6 into the oil filter cover, and apply a layer of fresh engine oil for lubricating.
- 11. Install a new oil filter 5.
- 12. Mount oil filter cover 4, then install and tighten the cover bolts to the specified torque.

# Oil Filter Cover Bolt Torque: 7.3 ft-lb.(10N·m)

- Clean any debris or contaminants from the magnetic drain bolt 2. Replace the washer with new one if damaged.
- 14. Install the magnetic drain bolt and washer 2.

# Drain Bolt Torque: 18.5 ft-lb. (25 N·m)





- 15. Use a dry and clean cloth to wipe the area around magnetic drain bolt.
- 16. (Filling option 1) Add the recommended type of oil into oil dipstick hole using the funnel, funnel extension tube and tube adapter that are supplied in the tool kit with the vehicle. Keep oil level in the specified range. Remove the funnel assy.
- 17. (Filling option 2) Open the filling cap on the cylinder head, fill with the recommended type of oil into the oil filling hole. Keep oil level in the specified range.
- 18. Remove the funnel assy, verify the oil level is between the upper and lower mark with the dipstick, and adjust the oil level accordingly.

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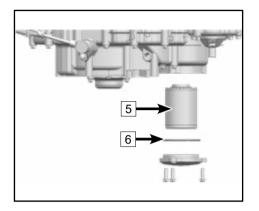
Too much or too little oil will have an impact on the normal operation of the engine. Make sure the oil is maintained between the upper and lower marks of the dipstick.

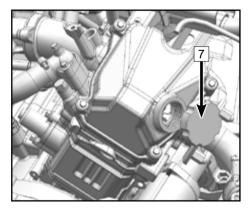
- 19. Install and tighten the oil dipstick.
- 20. Verify the vehicle is in parking state, then start and idle the vehicle for 30 seconds.
- 21. Inspect the engine for leaks after turning off engine. Contact your dealer if leaks are found.

# **MWARNING**

When change the engine oil, turn off the vehicle and keep it in parking position to avoid any injury or death.

22. Dispose the used oil and filter in a proper way.





#### **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:

Intake valve clearance (cold engine): 0.0024 in ~ 0.0055 in. (0.06mm ~ 0.14mm) Exhaust valve clearance (cold engine): 0.0043 in ~ 0.0075 in. (0.11mm ~ 0.19mm)

#### 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.

#### Front and Rear Gear Case

Inspect the front and rear gear case for any leaks before operating the vehicle, if found any leaks, stop operating the vehicle and contact with your dealer for inspection and service.

#### Change the Front and Rear Gear Case Oil

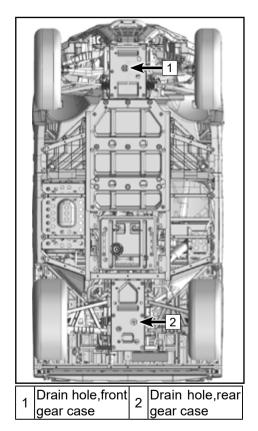
- 1. Place vehicle on level ground with the transmission in park.
- 2. Place an oil pan under the gear case to collect the used oil.
- 3. Remove the magnetic drain bolt and washer at the bottom of gear case.
- 4. Clean any debris or contaminants from the magnetic drain bolt. Replace the washer with new one if damaged.
- 5. Wait for several minutes until the gear case is completely drained.
- 6. Install magnetic drain bolt and washer.

### Drain Bolt Torque : 18.4 ft-lb. (25 N·m)

- 7. Remove filling bolt and washer (3).
- 8. Add the recommended type of oil (SAE 80W-90 GL-5) by specified volume using the funnel, funnel extension tube and tube adapter that are supplied with the vehicle.

# Front gear case oil volume: 8.45 oz. (250 mL)

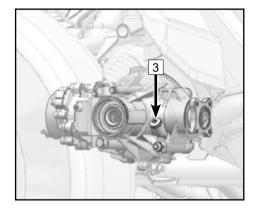
#### Rear gear case oil volume: 13.5 oz. (400 mL)

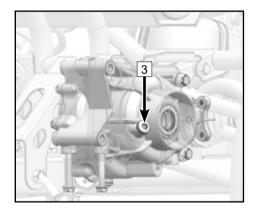


9. Mount the filling bolt and washer (3).

#### Torque for filling bolt: 18.4 ft-lb. (25 N·m)

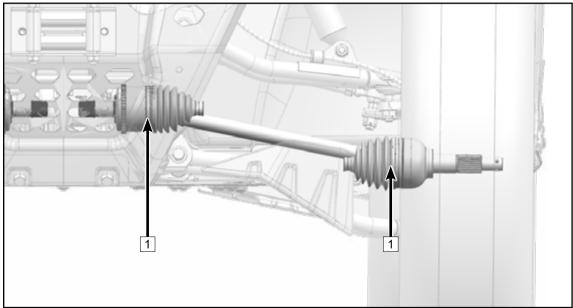
- 10. Dispose the used oil in a proper way.
- 11. The oil replacement method is the same for both front and rear gear cases.





#### Front and Rear Axle Boots

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



#### What to do if water collects in the CVT housing

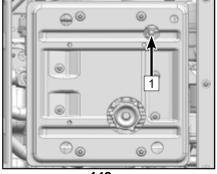
If the vehicle was submerged in water deep enough that water has entered the CVT housing, remove the drain bolt (1) at the bottom of the housing to drain the water from the case.

#### Water drain bolt torque: 18.4 ft-lb.(25 N•m)

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.



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## **Cooling System**

#### Inspect coolant level

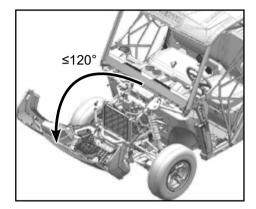
- 1. Place vehicle on level ground with the transmission in park.
- 2. Wait for the engine cooling down to ambient temperature, then inspect the coolant level.
- 3. Release the LH & RH hood clasps, then turn up the hood.
- 4. Verify coolant level is between upper and lower marks at the side of the coolant reservoir (1).
- 5. Reinstall the front hood.

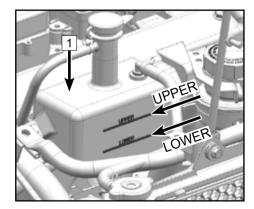
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If coolant level is increased, contact your dealer to inspect the antifreeze content of the coolant as soon as possible.

Distilled water can be used for short time if coolant is not available, softened tap water could be the second choice. Never add hard water or salt water, as it is harmful to the engine.

The radiator fan operation is automatically switched on or off according to the coolant temperature during operation.



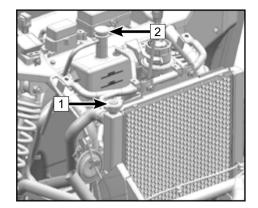


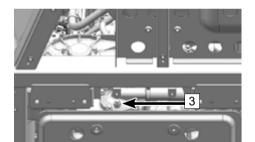
#### Change the Coolant

#### MWARNING

Never remove the radiator cap If the engine is hot. Wait for the engine to cool down before removing the radiator cap. Hot coolant can cause serious burns.

- 1. Place vehicle on level ground with the transmission in park.
- 2. Wait for the engine cooling down to ambient temperature, then inspect the coolant level.
- 3. Relase the LH & RH hood clasps, then turn up the hood.
- 4. Remove radiator cap (1) and coolant reservoir cap (2).
- 5. Place a container under the front of engine coolant drain bolt (3), then remove the drain bolt and washer.
- 6. Wait until coolant has drained completely, then install the coolant drain bolt and washer. Replace with new one if washer is damaged. Do not fully tighten the drain bolt at this time.
- 7. Remove the coolant reservoir hose and allow it to drain completely, then install the coolant reservoir hose.
- 8. Fill coolant into the radiator using the funnel supplied with the vehicle. NOTE: The funnel should be cleaned completely of any oil or other substance that may contaminate the coolant.





9. During filling coolant, unscrew the coolant drain bolt to release residual air inside the coolant hose until only fluid flows out, then screw back in and tighten the drain bolt.

#### Drain Bolt Torque: 7.4 ft-lb. (10 N·m)

- 10. Install radiator cap after filling the coolant.
- 11. Start the engine and idle for several minutes until the cooling fan turns on, then turn off the engine.
- 12. Inspect the coolant level after engine cool-down. Add additional coolant into the top of radiator if coolant level is low.
- 13. Fill coolant into reservoir until the level is between the upper and lower mark.
- 14. Install coolant reservoir cap.
- 15. Start the engine and idle for several minutes to inspect for leaks, contact your dealer to inspect the cooling system if any leaks are found.
- 16. Close the hood and secure the LH & RH hood clasps.
- 17. Dispose the used coolant in a proper way.

#### Recommended antifreeze:

Any high quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines. CFMOTO recommended coolant freeze protection level: -35°C.

Antifreeze and distilled water mixing ratio: 1:1

Total coolant capacity (without reservoir capacity): 3.8 qt. (3.6 L)

Coolant changing capacity (without reservoir capacity): 3.7 qt. (3.5 L)

Reservoir capacity: 0.32 qt (0.3 L) ~ 0.62 qt (0.59 L)

Lower mark: 0.32 qt (0.3L); Upper mark: 0.62 qt (0.59 L)

#### **Cleaning the Radiator**

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.

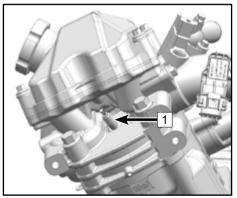
#### WARNING

If replace with different coolant, please contact with your dealer to drain out completely the residual coolant. Different coolant mixture may lead to engine failure.

### Spark Plug(s)

The spark plug (1) 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. Place vehicle on level ground with transmission in park.
- 2. Lift the rear cargo box.
- 3. Remove the spark plug cap.(Spark plug is located under the rear cargo box on the engine magneto side.)
- 4. Use the spark plug socket and wrench 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)

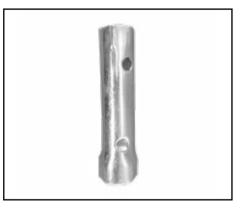
## Spark plug gap: 0.031 in ~ 0.035 in (0.8 mm ~ 0.9 mm)

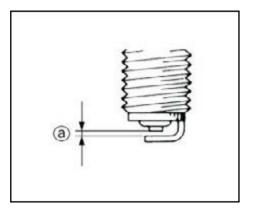
- 6. Clean the gasket surface. Wipe off any grime from the threads.
- 7. Install spark plug and tighten to specified torque.

## Spark Plug Torque: 14.8 ft-lb. (20 N•m).

**NOTE:** If a torque wrench is not available when you are installing a spark plug, a good estimation of the correct torque is to tighten the spark plug by finger first, then use tool to tighten 1/4 to 1/2 turn.

8. Install the spark plug cap.





#### 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.

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Major engine damage can result in 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 Pipe Spark Plug Arrestor**

Clean the carbon deposits from the spark arrestor periodically. Blocked spark arrestor will decrease the engine power. After driving through mud or water, inspect the spark arrestor and clean it if necessary.

## MWARNING

The exhaust system temperature is very high just after operation. Touching the pipe may lead to serious injury. Make sure the exhaust system is cooled, and then proceed with inspection and cleaning.

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Remove the cap nuts and washers (1).
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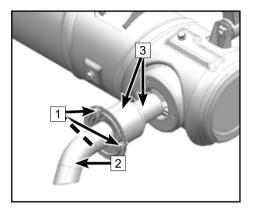
Remove spark arrestor (2).

Use a steel brush to clean any carbon deposits from the steel screen (3) of the spark arrestor.

Clean inside the spark arrestor with compressed air.

Inspect for damage or wear to the steel screen of the spark arrestor. Replace with a new spark arrestor if damaged or worn.

Reinstall the spark arrestor, washers and cap nuts onto the muffler. Torque: **7.4 ft-lb. (10 N•m)**.

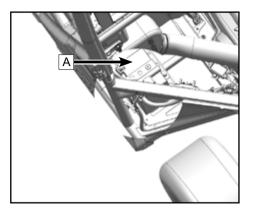


#### Battery

This vehicle is equipped with a 12 volt / 30 Amp-hour, sealed low maintenance battery (A). Therefore, it is not necessary to check the electrolyte or add distilled water into the battery. If the battery seems to be discharged, cover is damaged, or other problem exists, contact your dealer. The battery is located on the lower frame area between the driver seat and cargo box.

#### CAUTION

Do not operate electrical system lighting or accessories for long periods without the engine running to charge the battery. The battery may discharge to a point that the starter motor will not operate properly. If this should happen, please remove the battery and charge it.



## **Battery Removal**

Place vehicle on level ground with the transmission in park.

Turn off the stop switch, turn the key to the OFF position, make sure the ignition system is in power off condition for the vehicle.

Lift up the rear cargo box.

Remove the black negative wire ( - ).

Remove the red positive wire (+).

Remove the battery belt.

Take out the battery.

#### **Battery maintenance**

Apply a mixture of baking soda and water with a soft brush to clean the battery top and terminals.

Clean away dirt and any corrosion on positive and negative wire terminals with a stiff brush.

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.

If the vehicle will not be used for a month or longer, take out the battery and store it in a cool, dry place. Completely recharge the battery before re-installation. When charging the battery, it should be taken out from the vehicle.

### **Battery Installation**

Place vehicle on level ground with the transmission in park.

Turn off the stop switch, turn the key to the OFF position, make sure the ignition system is in power off condition for the vehicle.

Put the battery in place.

Install the battery fixing bracket.

Install the red positive wire (+).

Install the black negative wire ( - ).

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.

NOTE: Wrong operating sequence for positive and negative wires installation or disassembly may lead to short circuit between battery and the vehicle.

## **Battery Charging**

Remove battery.

Connect the charger with the positive and negative end of battery.

Switch on the charger.

### NOTE: It's recommended to charge the battery with current 10% of the battery amp-hour capacity.

Disconnect the charger after finishing charging.

Separate the charger and battery.

NOTE: If the vehicle will not be used for a long time, the battery should be recharged every month.

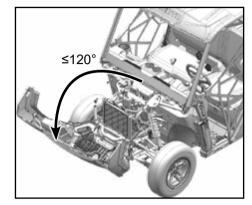
#### Brakes

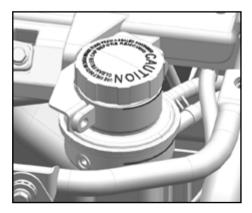
#### Brake Fluid Level Inspection

Before riding, check that the brake fluid level is above the low mark and replenish whenever necessary. The brake fluid reservoir is located under the front access cover. Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective.

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 before checking 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 and rear brake pads and discs for damage and wear. If the pad thickness 2 is less than 0.08 in. (2.0 mm) or the disc thickness 1 is less than 0.16 in. (4.0 mm), have your dealer replace them. Replacement of brake components requires professional knowledge, and should be performed by your dealer.

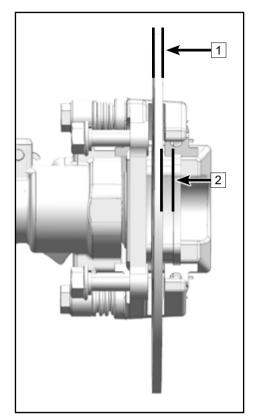
## NOTE:

Wheels must be removed to check brake pads.

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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 brake hoses every four (4) years.

## **WARNING**

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.

## **WARNING**

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.

#### Brake Light Operation

The brake light 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.

#### 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.

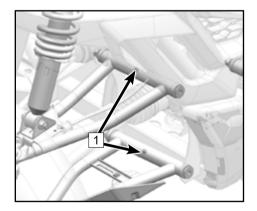
## **Suspension Lubricating and Adjustment**

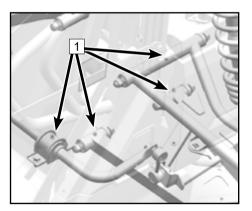
Lubricate the front and rear swing arm bushing, and rear stabilizer bar.

Add lubricating grease into grease nipple (1) with a grease gun until it begins to flow from bushing.

### NOTE:

There are 4 grease nipples on front swing arms, and 6 grease nipples on the rear swing arms, and 2 grease nipples on the rear stabilizer bar, they are symmetrical in left and right.





## Shock Absorber Adjustment

When riding on rough terrain conditions, using the hitch to tow, or carrying the maximum weight of people and cargo, increase the spring preload to get firmer riding. Decrease the spring preload as necessary for rough or soft terrain, to get smooth riding.

Proper spring preload setting is a personal preference, and changes with rider weight, riding style and conditions.

NOTE: Elevating the vehicle with the tires off the ground assists with adjustments.

#### Increase spring preload:

Turn adjuster 1 in direction a with special tool 2 from the kit.

#### Decrease spring preload:

Turn adjuster 1 in direction b with special tool 2 from the kit.

#### NOTE:

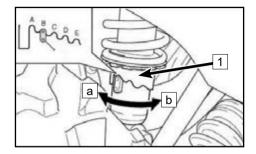
Wrenches are included in the tool kit for adjusting shock absorber spring preload. If not, please contact your dealer to make adjustment.

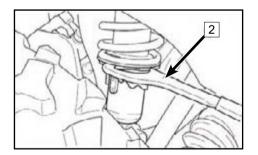
Standard preload position: B

A: Minmum (soft)

B: Maxmum (Hard)

NOTE: Keep the left and right preload with the same setting.





#### Wheels

#### **Tire Pressure**

Before operating the vehicle, use tire pressure pen to inspect the tire pressure:

Front tire:

When the load is less than 195 kgs: 10 PSI (70 kPa)

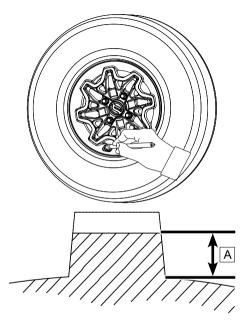
When the load is more than 195 kgs: 11 PSI (80 kPa) Rear tire:

When the load is less than 195 kgs: 14 PSI (100 kPa) When the load is more than 195 kgs: 17 PSI (120 kPa)

## 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. (3.0 mm)



## Wheel Bearings

- Lift the vehicle and support it securely under the frame with the tires off the ground.
- 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.

## Change the Wheel

#### Disassembling

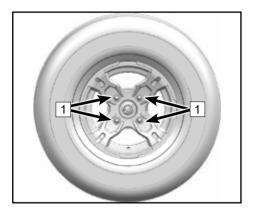
- 1. Place vehicle on level ground.
- 2. Lift the vehicle and support the vehicle securely under the frame using a jack or other suitable tool so the wheel is off the ground.
- 3. Remove the hexagon slotted wheel nut (1).
- 4. Remove wheels.

#### Installation

- 1. Install the wheels onto the wheel hub and secure with wheel nuts.
- 2. Torque the wheel nuts to spefication.

## Wheel Nut Torque: 52 ~ 59 ft-lb. (70 ~ 80 N·m)

3. Remove the vehicle support and place vehicle on the ground.



#### Electrical

#### Fuse Box

The fuse box is located under the front hood. If a fuse is blown, turn off the main switch, install a new fuse with specified amperage. Turn on the main switch. If fuse blows again immediately, contact your dealer.

Electronic relays mounted in the fuse box operate all system functions of the vehicle. If a relay fails to operate or replacement or diagnostic of a relay is required, please contact your dealer.

## 

To prevent an accidental short-circuit, turn off the main switch before checking or replacing fuses. Always use a fuse with the correct specified rating. Never use conductive material in place of the proper fuse. Using an improper fuse can cause damage to the electrical system and may lead to a fire.

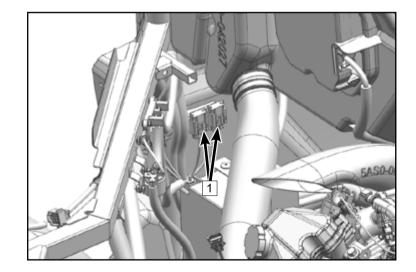
MAIN RFI AV	AUXILIARY Start Relay		COPILOT HEATING RELAY	FAN Relay	FUEL PUMP RELAY	2-4 RELAY	MAIN RFLAY	AUXILIARY Start Relay	MAIN DRIVING HEATING RELAY	COPILOT HEATING RELAY	FAN RELAY	FUEL PUMP RELAY	2-4 RELAY
	ם פ 10ג מיש	ם מ 15ג ם מ	ם מ 15ג ם מ	ם מי 15ג סיים		4-4 RELAY	а е 10А а е	ас 10А ас	ם מ 15ג ם מ	ם ת 15 א ת	ם ב 154 סיים		4-4 RELAY
FUEL PUMP 10A	SIGNAL A 15A	BACKUP 15A	HMI 10A		REVERSE		FUEL PUMP 10A	SIGNAL A 15A	BACKUP 15A	HMI 10A	LOW BEAN	HIGH BEAM	REVERSE
HEADLIGHT 15A	EFI 15A	FAN 15A	SIGNAL B 15A		RELAY		HEADLIGHT 15A	EFI 15A	FAN 15A	SIGNAL B 15A	RELAY	RELAY	RELAY

## For LED light

#### For halogen light

#### Main Fuse and EPS Fuse

A 40 Amp main fuse and a 40 Amp EPS (1) fuse are located next to the battery. 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, please contact your dealer.



## **Headlight Adjustment**

To adjust the headlight:

Take off the LH & RH clasps and open front hood.

Adjust the adjustment screw (1) to adjust the high beam direction vertically.

Adjust the adjustment screw (2) to adjust low beam direction vertically.

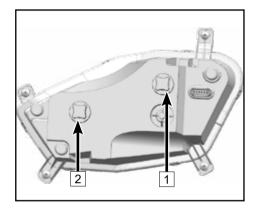
## WARNING

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

## Lamps for the vehicle

For LED lights: LED structure cannot be repaired if damaged or failed, have your dealer replace the entire assembly if an LED is damaged or has failed.

For halogen lights: Please contact your CFMOTO dealer to service or replace the light if any damage or fault.



## Safety Belt

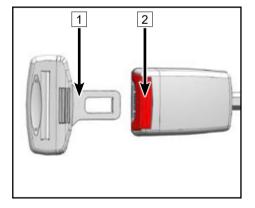
This vehicle is equipped with three point safety belts for driver and passenger. Please make sure all safety belts are fastened safely before operating the vehicle.

# WARNING

Falling from a moving vehicle will lead to serious injury or death. Always fasten the seat belts before operating or driving the vehicle.

Follow below steps to fasten the safety belts:

- For three point safety belt, pull down the belt lock plug
   1, cross the shoulder, chest and hip without any twist.
- Insert lock plug 1 into the lock catch 2 until it sounds a click.
- Loosen a little the safety belt and let it tension automatically.
- Press the red button to open the safety belt.



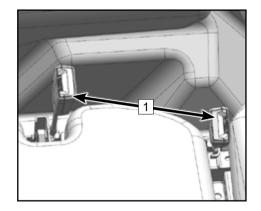
Always inspect all seat belts that can work normally before every operation of the vehicle.

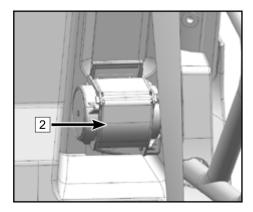
1. Insert the lock plug into the lock catch until it sounds a click. The lock plug can be inserted smoothly. Click sound means it is fastened safely.

2. Press red button to unlock that make sure the safety belts can be unlocked smoothly.

3. Pull out all the safety belts to inspect if any damage for all length of belts, including cut damage, wear damage or stiffening. If found any damage or it can not work normally, please ask your authorized CFMOTO dealer or qualified technician to inspect or replace the whole safety belt system.

4. Clean the dirt on the safety belt, wash the belt with soft soap water, never use bleach, dye or household detergent. Wash the whole length belt. Flush the lock plug 1 and the retractor cover 2 regularly with a garden hose.





# **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 type 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.

Certain products, including insect repellant 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

- Remove the rear access cover to access the spark plug(s).
- Remove the spark plug(s), rotate the piston to the bottom of its stroke, and pour approximately 2 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.

- Reinstall the spark plug(s). Torque the spark plug to specification.
- 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.
- Reinstall the spark plug(s), cap(s), and side 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  $30 \sim 40$ mm (1.2 ~ 1.6 in.) 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:

- Turn off the engine and remove the key to prevent loss during transporting.
- Ensure the fuel cap is installed correctly and secure.
- Ensure the seat is installed correctly and secure.
- Place the gear selector into any position except the parking position, and block the front and rear wheels to prevent the vehicle from moving.

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

• Secure both the front and rear of the vehicle frame to the transport to prevent the vehicle from sliding or moving.

# 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 Does not Turn Over**

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 parking position.				

## **Engine Pings or Knocks**

Possible Cause	Solution		
Poor quality or low octane fuel	Replace with minimum 89 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 89 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
Possible Cause	Solution
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		
Engine turns over, Fails to start	Refuel		
Clogged fuel filter	Inspect and replace as necessary		
Water is present in fuel	Replace with 89 minimum octane unleaded fuel		
Fuel pump is inoperative	Inspect pump and fuse; Replace as necessary		
Old or non-recommended fuel	Replace with 89 minimum octane unleaded fuel		
Possible Cause	Solution		
Fouled or defective spark plugs	Inspect spark plugs, replace if necessary		
No spark to spark plug	Inspect spark plugs, 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		
Mechanical failure	See your dealer		

## **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 89 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 turns over, Fails to start

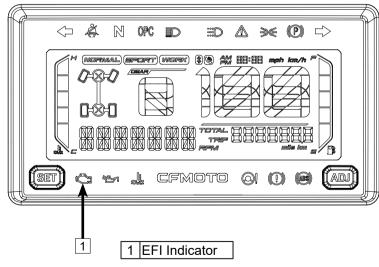
Possible Cause	Solution				
Fouled or defective spark plugs	Inspect and replace spark plugs as necessary				
Worn or defective spark plug wires	See your dealer				
Incorrect spark plug gap or heat range	Set gap to specs or replace plugs				
Loose electrical connections	Check all connections and tighten				
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 89 minimum octane unleaded fuel				
Clogged air filter	Inspect and replace as necessary; Replace spark plugs as necessary				

Possible Cause	Solution			
Reverse speed limiter malfunction	See your dealer			
Electronic throttle control malfunction	See your dealer			
Other mechanical failure	See your dealer			
Possible Lean or Rich fuel mixture	See your dealer			
Low or contaminated fuel	Add or change fuel, clean the fuel system			
Low octane fuel	Replace with minimum 89 octane unleaded fuel			
Clogged fuel filter	Replace filter			
Fuel is very high octane	Replace with minimum 89 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 flashes, please contact your dealer. During normal operation, the EFI indicator will be off.

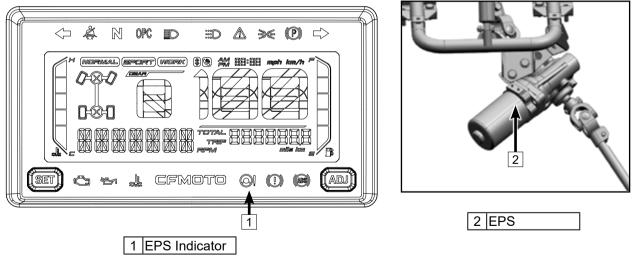
The fault code will display on the dashboard directly, record the fault code and contact your dealer for diagnosing. Your dealer has the EFI tool required to diagnose, repair and clear trouble codes.



## **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, when this indicator flashes, please contact your dealer. During 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.

Fault code will display on the dashboard directly, record the fault code and contact your dealer for diagnosing. Your dealer has the EFI tool required to diagnose, repair and clear trouble codes.



## Electronic Power Steering (EPS) Fault Diagnosis and Solution

Steering without assistance	1. 2. 3. 4.	Wire connectors have bad contact or are disconnected The fuse blew out Relay damage The controller, motor, or sensor is damaged	1. 2. 3. 4.	Check whether wire connectors and pins are fully inserted Replace the fuse (40A) 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	1. 2.	Contact your dealer Contact your dealer
When system is 'ON', the steering swings to both sides		Motor is mounted backwards Controller or sensor is damaged		Contact your dealer Contact your dealer
Steering becomes heavy	1. 2. 3.	Battery has power loss Air pressure of the tires (front) is insufficient Motor damage (power reduction)	1. 2. 3.	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	2.	Contact your dealer Contact your dealer Contact your dealer

# CFMOTO LIMITED WARRANTY FOR USA CFMOTO Limited Warranty

Dear Customer,

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

## **CFMOTO Warranty Terms & Conditions**

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

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

- Battery
- Spark Plugs
- Air Filters
- Oil and Fuel Filters
- B. A 90-DAY WARRANTY coverage period applies to all new CFMOTO vehicles in relation to the vehicle's:
  - Drive Belt
  - Gear Shift, CVT, and Wet Clutch
  - Throttle and Brake Cables
  - Front/Rear Rims
  - Front/Rear Tires
  - Front/Rear Brake Pads or Shoes
  - Front/Rear Brake Discs or Drums
  - Wheel or Steering Stem Bearings and Seals
  - Rubber Parts/Engine Mounts/Grips/Boots
  - Brake or Clutch Levers
  - Floor Boards or Pegs
  - ATV Winch (if equipped)
  - Light Bulbs/Fuses
  - Body Plastics and Cosmetic Defects

- 3. **EXCLUSIONS FROM WARRANTY COVERAGE**: Any Damage resulting from the following acts or circumstances is not covered by the CFMOTO POWERSPORTS, Inc., Limited Warranty:
  - Fire
  - Collision
  - Theft
  - Unavoidable natural disasters
  - Improper storage or transportation
  - Failure or negligence in the performance of periodic vehicle maintenance
  - Improper or negligent use or operation
  - Unauthorized repair or adjustment
  - Unauthorized modifications or performance upgrades
  - · Use of vehicle as a rental vehicle
  - Use of vehicle in competitive or racing events
- 4. VEHICLE CARE AND MAINTENANCE: The vehicle's owner must properly use, maintain, and care for the vehicle as outlined in the CFMOTO POWERSPORTS, Inc., Owner's Manual. Any warranty repairs must be performed exclusively by CFMOTO POWERSPORTS, Inc., authorized Dealers. Any warranty work performed by anyone other than an authorized CFMOTO Dealer will not be covered under the CFMOTO POWERSPORTS, Inc., Limited Warranty policy.
- 5. **TRANSFER OR CONTINUATION OF WARRANTY**: This warranty is transferable only under the following conditions:
  - Transfer information must be provided to an authorized CFMOTO POWERSPORTS, Inc. dealer, who will then forward the information to CFMOTO POWERSPORTS, Inc.;

- The complete model and serial number as shown on the original warranty document must be provided.
- The name and address of the existing and new owners must be provided.
- The original delivery date of the vehicle must be provided.
- The new owner must indicate in writing that he/she has received and read the vehicle's Owner's Manual and the CFMOTO POWERSPORTS, Inc. Warranty Policy.
- 6. WARRANTY REGISTRATION: The Dealer must complete a PDI form and warranty register the vehicle online and provide the completed registration form to CFMOTO POWERSPORTS, Inc., within seven (7) days of completing the sale of the vehicle. <u>Please note that NO warranty claims will be processed unless the product warranty online registration form is completed and the form is received by CFMOTO POWERSPORTS, Inc., from the Dealer.</u>
- 7. DEALER RESPONSIBILITIES: A CFMOTO authorized Dealer must perform warranty coverage repairs at no charge to the customer, even if they are not the dealer that sold the CFMOTO vehicle to the customer, and must use CFMOTO OEM parts for all warranty repairs. All vehicles sold by the dealer must be inspected and tested by the dealer to ensure proper performance and operation prior to delivery to the customer. No vehicles may be delivered to a customer without first passing a dealer inspection and an operational test.
- 8. **CUSTOMER ASSISTANCE:** Any questions regarding your CFMOTO vehicle or related products should be directed to an authorized CFMOTO dealer. However, if a dealer is not available to answer customer concerns or address a technical issue with a CFMOTO vehicle or product, CFMOTO POWERSPORTS, Inc., customer representatives can be contacted directly at (763)398-2690 or by e-mail: info@cfmotousa.com. Please note that Customer Service cannot approve or deny warranty, and cannot provide technical repair data, diagnosis, instruction, or other information beyond what is provided in the Owner's Manual.

- 9. **COMMERCIAL USE**. The duration of the warranty for commercial use shall be limited to a period of six (6) months instead of one year for recreational use. All other conditions and limitations shall apply.
- 10. **TIRES PROVIDED AS ORIGINAL EQUIPMENT:** Other than provided herein, vehicle tires supplied as original equipment are warranted separately by the individual tire manufacturer or its representatives.
- 11. **DISCLAIMER:** NO EXPRESS WARRANTY IS PROVIDED BY CFMOTO POWERSPORTS, INC. WITH RESPECT TO CFMOTO VEHICLES EXCEPT AS SPECIFICALLY SET FORTH HEREIN. ANY IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE, BY STATUTE OR OTHERWISE, ARE HEREBY STRICTLY LIMITED TO THE TERMS OF THIS WRITTEN LIMITED WARRANTY.
- 12. **INTEGRATION:** This limited warranty supersedes any and all oral, express, or written warranties, statements, or undertakings that may previously have been made, and contains the entire agreement of the parties with respect to the warranty of CFMOTO vehicles. Any and all warranties not contained in this Agreement are specifically excluded. This warranty extends to each original (and subsequent) owner of any CFMOTO ATV, for the term of the original warranty period. This limited warranty shall be the sole and exclusive remedy available to the customer with respect to the covered CFMOTO vehicle. In the event of any alleged breach of any warranty or any legal action brought by the customer based on alleged negligence or other conduct by CFMOTO POWERSPORTS Inc., or its related parties, the customer's sole and exclusive remedy will be repair or replacement of defective components as stated above, unless otherwise provided by law. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply if they are deemed inconsistent with the controlling state law.

# CFMOTO LIMITED WARRANTY FOR USA California Evaporative Emissions Control Warranty Statement Your Warranty Rights and Obligations

#### INTRODUCTION:

The California Air Resources Board (CARB) and CFMOTO Powersports, Inc. (CFMOTO) are pleased to explain the evaporative emissions control system warranty on your 2020 and later-model year off-highway recreation vehicles (OHRVs). In California, new off-highway recreational vehicles must be designed, built, and equipped to meet the State's stringent anti-smog standards. CFMOTO must warrant the evaporative emissions control system on your OHRV for the periods of time listed below, provided there has been no abuse, neglect, improper maintenance, or unapproved modification of your OHRV.

Your evaporative emissions control system may include parts such as: fuel injection systems, electronic control systems, fuel tanks, fuel lines, fuel caps, valves, carbon canisters, filters, vapor hoses, belts, clamps, connectors, and other evaporative emissions-related components. Where a warrantable condition exists, CFMOTO will repair your OHRV at no cost to you, including diagnosis, parts and labor.

#### MANUFACTURER'S WARRANTY COVERAGE:

The warranty period for this OHRV is 30 months, or 2500 miles, or 250 hours, whichever comes first, except for "high-priced" warranty parts, which are covered for 60 months, or 5000 miles, or 500 hours, whichever comes first. If any evaporative emissions-related part on your OHRV is defective, the part will be repaired or replaced by CFMOTO.

## OWNER'S WARRANTY RESPONSIBILITIES:

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

As an owner, you are responsible for presenting your OHRV to a CFMOTO dealer as soon as a problem

exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. As an OHRV owner, you should also be aware that CFMOTO may deny you warranty coverage if your OHRV or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications. WARRANTY PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such coverage if CFMOTO demonstrates that the OHRV has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment-limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

- Fuel Tank<sup>\$</sup>
- Fuel Cap
- Fuel Lines
- Fuel Lines Fittings
- Clamps
- Pressure Relief Valves\*

- Control Valves\*
- Control Solenoids\*
- Electronic Control\*
- Electronic Control Module\*
- Vacuum Control Diaphragms\*
- Control Cables\*

- Control Linkages\*
- Purge Valves
- Vapor Hoses
- Liquid/Vapor Separator
- Carbon Canister
- Canister Mounting Brackets

\*Parts that relate to the installed vehicle Evaporative Control System; \$High-Priced warranty parts.

THE REMOVAL OR MODIFICATION OF EVAPORATIVE EMISSION-RELATED PARTS ON THIS OHRV IS ILLEGAL. VIOLATORS MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES AS PROVIDED UNDER CALIFORNIA AND FEDERAL LAW.

If you have any questions regarding your warranty rights and responsibilities, you should contact CFMOTO at 763 398-2690; 555 Holly Lane N. Suite #30 Plymouth, MN 55447 or the California Air Resources Board at 9528 Telstar Avenue, El Monte, CA 91731.

# U.S.A. EPA and CARB Emissions Control Limited Warranty

This emissions limited warranty is in addition to the CFMOTO Powersports, Inc. standard limited warranty for your vehicle. CFMOTO Powersports, Inc. warrants that at the time it is first purchased, this emissions-certified vehicle is designed, built and equipped so it conforms to applicable U.S. Environmental Protection Agency (EPA) and the California Air Resource Board (CARB) emission regulations. CFMOTO Powersports, Inc. also warrants that the vehicle is free from defects in materials and workmanship that would cause it to fail to meet these regulations.

The warranty period for this emissions-certified vehicle starts on the date the vehicle is first purchased and continues for a period of 500 hours of engine operation, 5000 kilometers (3,100 miles) of vehicle travel, or 30 calendar months from the date of purchase, whichever comes first. This emissions limited warranty covers components whose failure increases the vehicle's regulated emissions, and it covers components of systems whose only purpose is to control emissions. Repairing or replacing other components not covered by this warranty is the responsibility of the vehicle owner. This emissions limited warranty does not cover components whose failure does not increase the vehicle's regulated emissions.

For exhaust emissions, emission-related components include any engine parts related to the following systems:

- Air-induction system (excludes filters)
- Ignition system (excludes spark plugs)

• Fuel system (excludes filters)

- Exhaust gas recirculation systems
- The following parts are also considered emission-related components for exhaust emissions:
- After treatment devices
- Crankcase ventilation valves

- Sensors
- Electronic control units

The following parts are considered emission-related components for evaporative emissions:

- Fuel Tank
- Fuel Cap
- Fuel Line
- Fuel Line Fittings
- Clamps\*
- Pressure Relief Valves\*
- Control Valves\*
- Electronic Controls\*

- Vacuum Control Diaphragms\*
- Control Cables\*
- Control Linkages\*
- Purge Valves
- Vapor Hoses
- Liquid/Vapor Separator
- Carbon Canister
- Carburetor Purge Port Connector

\* As related to the evaporative emission control system.

The exclusive remedy for breach of this limited warranty shall be, at the exclusive option of CFMOTO Powersports, Inc., repair or replacement of any defective materials, components or products.

THE REMEDIES SET FORTH IN THIS LIMITED WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. CFMOTO POWERSPORTS, INC. SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

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

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply if it is inconsistent with the controlling state law. This limited warranty excludes failures not caused by a defect in material or workmanship. This limited warranty does not cover damage due to accidents, abuse or improper handling, maintenance or use. This limited warranty also does not cover any engine that has been structurally altered, or when the vehicle has been used in racing competition. This limited warranty also does not cover physical damage, corrosion, or defects caused by fire, explosions or other similar causes beyond the control of CFMOTO Powersports, Inc. Owners are responsible for performing the scheduled maintenance identified in the owner's manual. CFMOTO Powersports, Inc. may deny warranty claims for failures that have been caused by the owner's or operator's improper maintenance or use, by accidents for which CFMOTO Powersports, Inc. has no responsibility, or by acts of God. Any qualified repair shop or person may maintain, replace, or repair the emission control devices or systems on your vehicle. CFMOTO Powersports, Inc. recommends that you contact an authorized CFMOTO Powersports, Inc. dealer to perform any service that may be necessary for your vehicle. CFMOTO Powersports, Inc. also recommends that you use only genuine CFMOTO Powersports, Inc. parts. It is a potential violation of the Clean Air Act if a part supplied by an aftermarket parts manufacturer reduces the effectiveness of the vehicle's emission controls. Tampering with emission controls is prohibited by federal law. If you have any questions regarding your warranty rights and responsibilities, please contact CFMOTO Powersports, Inc. at 888-823-6686.

# Noise Control System and Tampering

Warranty time period: 1,865 miles (3000 km)

Federal law prohibits the following acts or causing thereof:

- 1. The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or;
- 2. The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW:

These acts include tampering with the following systems; i.e., modification, removal, etc.

Exhaust system

- Muffler
- Exhaust
- Silencer

Intake system

- Air cleaner case
- Air cleaner element
- Intake duct

# Change of Ownership

If you sell your vehicle, any valid remainder of the warranty can be transferred to the new owner. Please record the details of the exchange below and inform an authorized CFMOTO dealer:

Change of Ownership	Original Purchaser	2nd Owner	3rd Owner	4th Owner
Owner Name				
Address				
City				
State / Zip Code				
Telephone				
E-mail				
Date of Purchase				
Odometer Reading				
New Owner				
Signature				

## NOTE:

If a completed Change of Ownership form does not include the required details or is inaccurate, CFMOTO reserves the right to investigate the actual ownership of the product, the service history, and possibly refuse the application for warranty transfer if the requirements have not been fulfilled.

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