

owner's manual



READ THIS MANUAL CAREFULLY

It contains important safety information

This ATV should not be ridden by
anyone under 16 years of age.

FOREWORD

Thanks for purchasing LX1000AU. This manual includes important safety information. It provides information about special techniques and skills necessary to ride this vehicle. It also includes the details to operate and necessary maintenance procedure to perform safely.

EVAP System (Evaporative Emission Control System)

Do not modify the EVAP system. Modification is a violation of EPA regulations. Ensure that all the hoses are not clogged or kinked; otherwise it could damage the fuel pump or distort the fuel tank.

IMPORTANT SAFETY MESSAGE:

- PAY ATTENTION TO THE CAUTION AND WARNING LABELS ON THIS ATV.
- READ, UNDERSTAND, AND FOLLOW ALL OF THE INSTRUCTIONS AND SAFETY PRECAUTIONS IN THIS MANUAL AND ON ALL PRODUCT LABELS. FAILURE TO FOLLOW THE SAFETY PRECAUTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.
- THE ENGINE EXHAUST GAS FROM THIS PRODUCT CONTAINS CARBON MONOXIDE, WHICH IS A DEADLY GAS AND COULD CAUSE HEADACHES, GIDDINESS, LOSS OF CONSCIOUSNESS, OR EVEN DEATH.
- READ THIS MANUAL BEFORE OPERATING THIS ATV. MAKE SURE YOU UNDERSTAND ALL INSTRUCTIONS. ALSO KEEP ALL INFORMATION IN MIND WHILE OPERATING THIS ATV.
- ANYONE UNDER AGE 16 SHOULD NEVER BE ALLOWED TO OPERATE ATV LX1000AU.
- KEEP THIS MANUAL IN THE WATERPROOF PLASTIC BAG AND STORED IN THE

COMPARTMENT PROVIDED BY YOUR ATV.

- FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

IMPORTANT NOTICE TO PARENTS AND ADULTS

- THIS ATV IS NOT A TOY.
- YOU SHOULD UNDERSTAND THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE YOU LET YOUR CHILD RIDE THIS ATV. THEN BE SURE YOUR CHILD UNDERSTANDS AND WILL FOLLOW THEM.
- THIS ATV SHOULD ONLY BE OPERATED UNDER THE DIRECT SUPERVISION OF AN ADULT.
- NEVER EXCEED YOUR RIDING CAPABILITIES.
- THIS ATV CAN BE HAZARDOUS TO OPERATE, AVOID EXCESSIVE SPEED, PAVED SURFACES, SHARP TURNS, AND UNEVEN TERRAIN.
- ADULTS SHOULD ADJUST THE THROTTLE FOR SLOWER SPEEDS.
- NEVER RIDE THIS ATV DURING LOW LIGHT CONDITIONS.
- CHILDREN DIFFER IN SKILLS. SOME CHILDREN MAY NOT BE ABLE TO OPERATE AN ATV SAFELY. PARENTS SHOULD PERMIT CONTINUED USE ONLY IF THEY DETERMINE THAT THE CHILD HAS THE ABILITY TO OPERATE THE ATV SAFELY.
- IF YOUR CHILD IS INEXPERIENCED IN RIDING ATV, HE OR SHE SHOULD TAKE A TRAINING COURSE BEFORE OPERATING THIS ATV.

Whenever you see the symbols shown below, heed their instructions. Always follow safe operation and maintenance practices.

WARNING

HAZARD.

Failure to heed WARNINGS.

WHAT CAN HAPPEN

WARNINGS identify special instructions or procedures which, if not correctly followed, could result in serious injury or death.

HOW TO AVOID THE HAZARD?

Read all WARNINGS in this manual carefully and for your safety be sure to follow their instruction.

CAUTION

This caution symbol identifies special instruction or procedures which, if not strictly observed, could Result in damage to or destruction of equipment.

NOTE

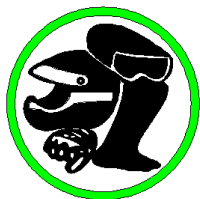
This note symbol indicates points of particular interest for more efficient and convenient operation.

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.

WARNING FOR TYPE I ATVs

(1 -person vehicle)

Improper vehicle use can result in SEVERE INJURY or DEATH



ALWAYS USE
AN APPROVED
HELMET AND
PROTECTIVE
GEAR



NEVER USE
ON PUBLIC
ROADS



NEVER CARRY
PASSENGERS



NEVER USE
WITH DRUGS
OR ALCOHOL

 WARNING FOR TYPE II ATVs
(II-person vehicle)

Improper vehicle use can result in SEVERE INJURY or DEATH



ALWAYS USE
AN APPROVED
HELMET AND
PROTECTIVE
GEAR



NEVER USE
ON PUBLIC
ROADS



NEVER CARRY
MORE THAN 1
PASSENGERS



NEVER USE
WITH DRUGS
OR ALCOHOL

NEVER:

- Operate without proper training or instruction.
- Operate on public roads. A collision can occur with another vehicle.
- Operate at speeds too fast for your skill or the conditions.
- Carry multiple passengers; Type II ATVs are designed for a single passenger only.
- Use ALCOHOL or DRUGS before or while driving this vehicle.

ALWAYS:

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

IMPORTANT NOTICE

Off-road vehicle riding is a wonderful sport, and we hope you will enjoy it to the fullest.

This vehicle is designed and manufactured for off-road use only. It is illegal and unsafe to operate this vehicle on any public road, street and highway.

Read this manual carefully and completely before starting your new ATV

It contains important safety information. Never operate this ATV without proper instruction.

Beginner should take a training course before operating this vehicle.

Never allow a child under the age 16 to operate this ATV. Use of this ATV by children under 16 years of age can lead to severe injury or death of the child. Even youths starting at age 16 may not have the skills, abilities, or judgment needed to operate this ATV safely. Therefore, youths starting at age 16 should have adult supervision even after they attend a training course.

To protect your safety, make sure you use your vehicle legally, show concern for the environment, and respect the rights of other people.

This Operator's Guide has been prepared to acquaint the owner/operator of a new vehicle with the various vehicle controls, maintenance and safe operating instructions. It is indispensable for

the proper use of the product.

The information contained in this document is correct at the time of publication. However, LX1000 maintains a policy of continuous improvement of its products without imposing upon itself any obligation to install them on products previously manufactured. Due to late changes, some differences between the manufactured product and the descriptions and/or specifications in this guide may occur. LX1000 reserves the right at any time to discontinue or change specifications, designs, features, models or equipment without incurring any obligation upon itself. This Operator's Guide should remain with the vehicle when it is sold.

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SAFETY INFORMATION

AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycle and cars. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.

SEVERE INJURY OR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor.
- Never allow a child under age 16 to operate ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.
- Never operate an ATV on any public road, street or highway, even dirt or gravel one.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate an ATV without wearing an approved motorcycle helmet that fits properly. You should also wear eye protection (face shield or goggles), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Always avoid operating an ATV on any paved surfaces, including driveways, sidewalks, streets and parking lots.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert

to changing terrain conditions when operating the ATV.

- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Never operate on excessively rough, slippery or loose terrain until you have learned and practiced the skill necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.
- Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.
- Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Never attempt wheelies, jumps, or other stunts.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.
- Never modify an ATV through improper installation or use of accessories.
- Never operate the ATV on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly or make

sudden gear changes. Never go over the top of a hill at high speed.

- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, use proper gear and maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, follow the procedure described in this manual.
- Always be careful when skidding or sliding. Learn to safety control skidding or sliding by practicing at low speeds and on level, smooth terrain. On extremely slippery surface, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control
- Never operate an ATV in fast flowing water or in water deeper than the recommended in this manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply those several times to let friction dry out the linings.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle that will cause the ATV to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual.

Avoid hills with excessively slippery or loose surface. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.

- Always check for obstacles before operating in a new area

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 this vehicle properly in different situations and on different types of terrain.

HOW TO AVOID THE HAZARD?

Beginners and inexperienced operators should complete a training course.

They should then regularly practice the skills learned during the course as well as the operating techniques described in this Operator's Guide.

For more information about a training course, contact an authorized dealer.

WARNING

POTENTIAL HAZARD

Improper handling of gasoline.

WHAT CAN HAPPEN

Gasoline can catch and you could be burned.

HOW TO AVOID THE HAZARD?

Always shut down the engine while refueling. Do not refuel immediately after the engine has been running and is still very hot. Do not spill gasoline on the exhaust muffler/pipe or engine when refueling. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of clothes dryers or water heaters.

When transporting the ATV in another vehicle, make sure it is placed upright and its fuel cock is in the “OFF” position. Otherwise, gasoline may leak out from the fuel tank or carburetor.

WHAT CAN HAPPEN

Gasoline is poisonous and can cause injuries.

HOW TO AVOID HAZARD?

If you swallow some gasoline or breathe a lot of gasoline vapor, or get some gasoline into your eyes, see your doctor right away. If gasoline spills on your skin, wash with water and soap immediately. If gasoline spills on your clothes, change your clothes immediately.

WARNING

POTENTIAL HAZARD

Improperly operating in reverse.

WHAT CAN HAPPEN

You could hit an obstacle or person behind the vehicle, resulting in serious injury.

HOW TO AVOID THE HAZARD?

When you select reverse gear, make sure there are no obstacles or people behind the vehicle. When it is safe to proceed, go slowly. On 2-UP models, take account that the passenger can obstruct your view.

WARNING

POTENTIAL HAZARD

Starting or running the engine in a closed area.

WHAT CAN HAPPEN

Exhaust smokes are poisonous and may cause people unconsciousness and death within a short time.

HOW TO AVOID THE HAZARD?

Always start and operate your ATV in an area with adequate ventilation

WARNING

POTENTIAL HAZARD

Operating this vehicle through deep or fast flowing water.

WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control, which could lead to an accident

HOW TO AVOID THE HAZARD?

Never operate this vehicle in fast flowing water or in deep water.

Check water depth and current before you attempt to cross any water. Water should not go above footrests.

Remember that wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply those several times to let friction dry out the pads.

WARNING

POTENTIAL HAZARD

Overloading this vehicle, carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD?

Never exceed the stated load capacity for this vehicle including operator as well as other loads and added accessories.

Cargo should be properly distributed and securely attached.

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

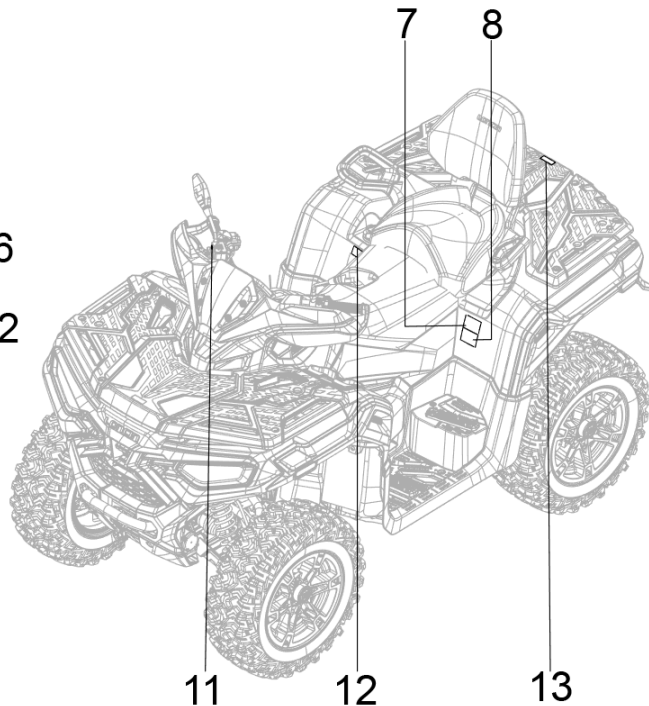
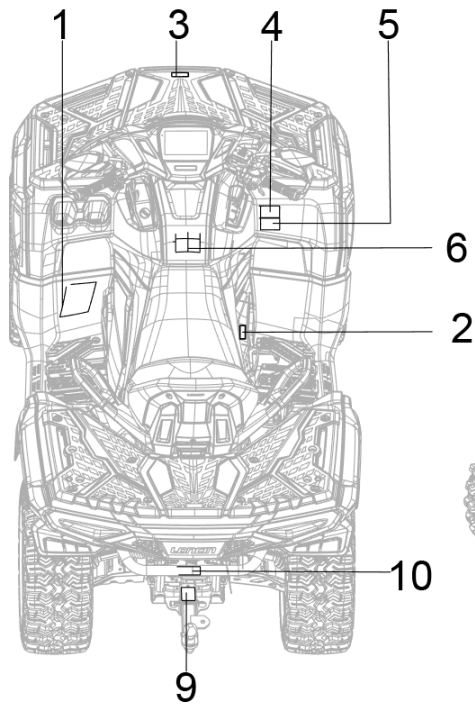
Always follow the instructions in this Operator's Guide for carrying cargo or pulling a trailer.

LOCATION OF THE WARNING AND SPECIFICATION LABELS

All warning labels which are on your vehicle are repeated here. Read labels on your vehicle and understand them thoroughly. They contain information which is important for your safety and the safety of anyone else who may operate your vehicle. Therefore, it is very important that all warning labels be on your vehicle in the locations shown. If any label is missing, damaged, or worn, get a replacement from your dealer and install it in the correct position.

NOTE

- The sample warning labels in this section have part numbers to help you and your dealer obtain the correct replacement.
- Refer to the actual vehicle label for model specific data grayed out in the illustration.



①

⚠ WARNING

Improper ATV use can result in SEVERE INJURY or DEATH



ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR



NEVER CARRY MORE THAN ONE PASSENGER



NEVER USE WITH DRUGS OR ALCOHOL

NEVER operate:

- without proper training or instruction.
- at speeds too fast for your skills or the conditions.
- never carry more than one passenger!
- never drive with a passenger unless passenger seat is securely in place!

ALWAYS:

- use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- Passengers should be well seated & hold tight the handgrip.

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

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②

NOTICE

Check engine oil every 500 kilometers.

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③

MAX LOAD :45 kg (99 lbs)

370310959

④.

NOTICE

Vehicle must be stopped before shifting transmission. Shifting while moving may result in transmission damage.

370310834

⑤

⚠ WARNING

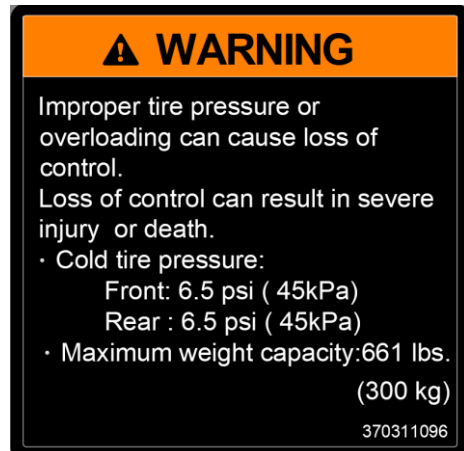
Turning the vehicle in 4WD-LOCK ("DIFF.LOCK") takes more effort. Operate at a slow speed and allow extra time and distance for maneuvers to avoid loss of control.

370311098

⑥



⑦



⑧.

IMPORTANT DRIVE BELT INFORMATION

Neglect, abuse, or failure to maintain the transmission can result in belt damage and failure.

Inspection of the transmission drive belt is required at least every 2000 km (1200 mi) or year of use whichever comes first, since drive belts wear with normal use.

More frequent inspection is necessary if the vehicle is subjected to hard usage. If excessive belt slippage occurs, do not ride the vehicle until damaged components are repaired, Refer to your Owner's Manual.

370310833

⑨

⚠ WARNING

Improperly loading a trailer may cause loss of control. Evenly balance the load .

- Maximum towing weight



1000kg
(2205 lbs)

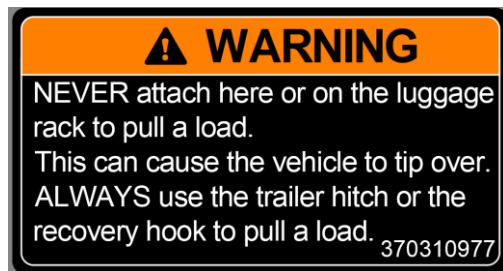
- Maximum tongue weight



47kg
(104 lbs)

370311099

⑩



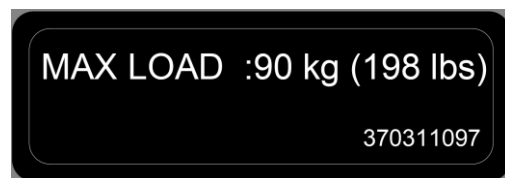
⑪



⑫



⑬



VEHICLE IDENTIFICATION

Identification number records

Record the vehicle identification number and engine number in the follow spaces provided for assistance when ordering spare parts from your dealer or for reference in case the ATV is stolen.

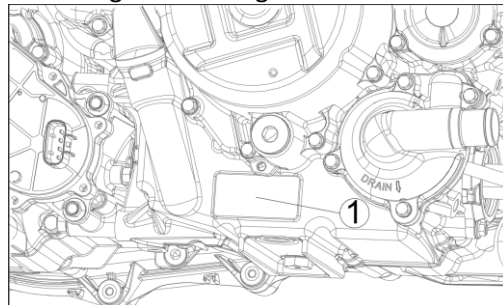
1. Vehicle Identification Number:

2. Engine Number

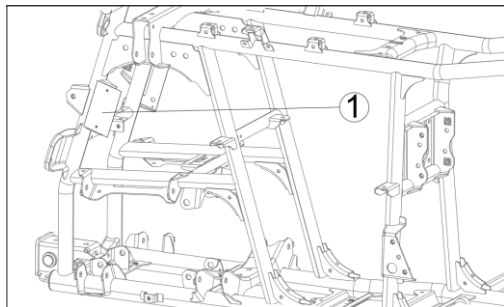
Vehicle identification number

The vehicle identification number is stamped into the frame. This vehicle identification number is used to identify your ATV.

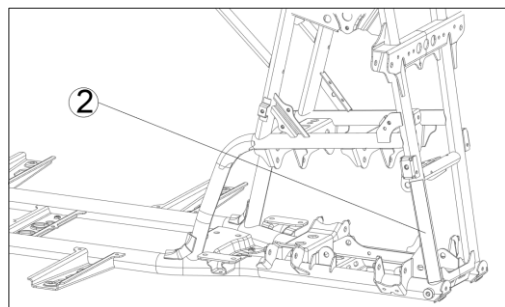
The engine number ① is printed on the bottomright of the engine case.



The VIN number① is stamped at the right side frame between the back wheels.



The frame number② is on the upper right behind the frame.



(1) If equipped

A rectangular label with a black background and white text. The title "VEHICLE INFORMATION" is at the top. Below it are four fields: "MODEL" followed by a box (callout 1), "DISPLACEMENT" followed by a box (callout 2), "VINNO" followed by a long box (callout 3), and "RATED POWER" followed by a box (callout 4) and "DATE" followed by a box (callout 5).

1. Vehicle type 2. Engine displacement
3. Rated power 4. VIN
5. Date of manufacture

(2) If equipped

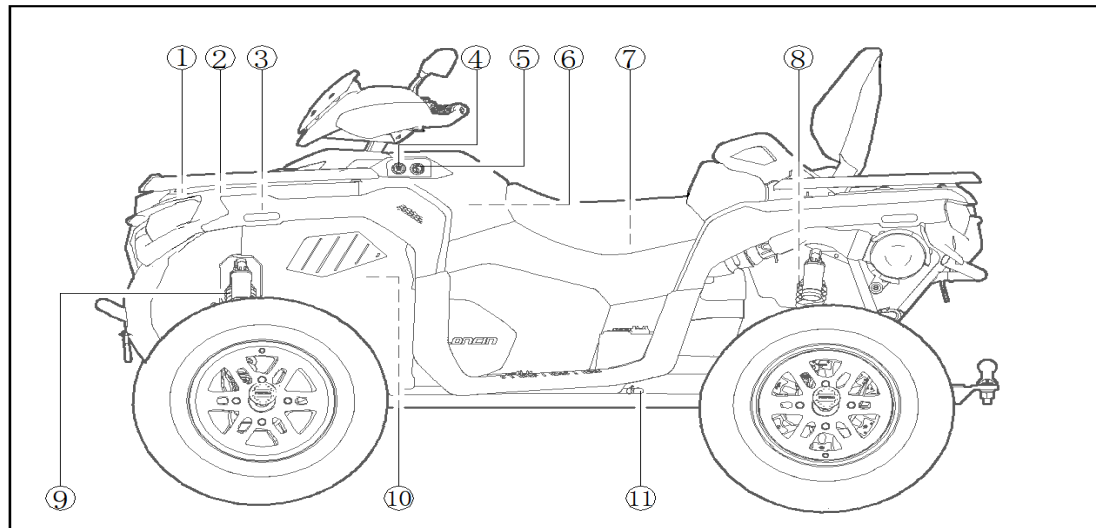
A rectangular label with a dark grey background and white text. The title "CHONGQING LONGIN MOTOR CO., LTD." is at the top. Below it are several fields: "T ##" followed by a box (callout 1), "e9*167/2013*####" followed by a box (callout 2), a long empty box (callout 3), "### kg" (callout 4), "A-1 : ### kg" (callout 5), "A-2 : ### kg" (callout 6), and a table with three columns: T-1, T-2, T-3 and two rows: B-1, B-2.

	T-1	T-2	T-3
B-1	###kg		
B-2			

- 1: Category 2: Type-approval number
3: VIN 4: Permissible maximum laden mass (est.) of the vehicle
5-6: Permissible maximum mass (est.) per axle
B-1: Permissible towable mass on rear coupling point; unbaked trailer

DESCRIPTION

Right view

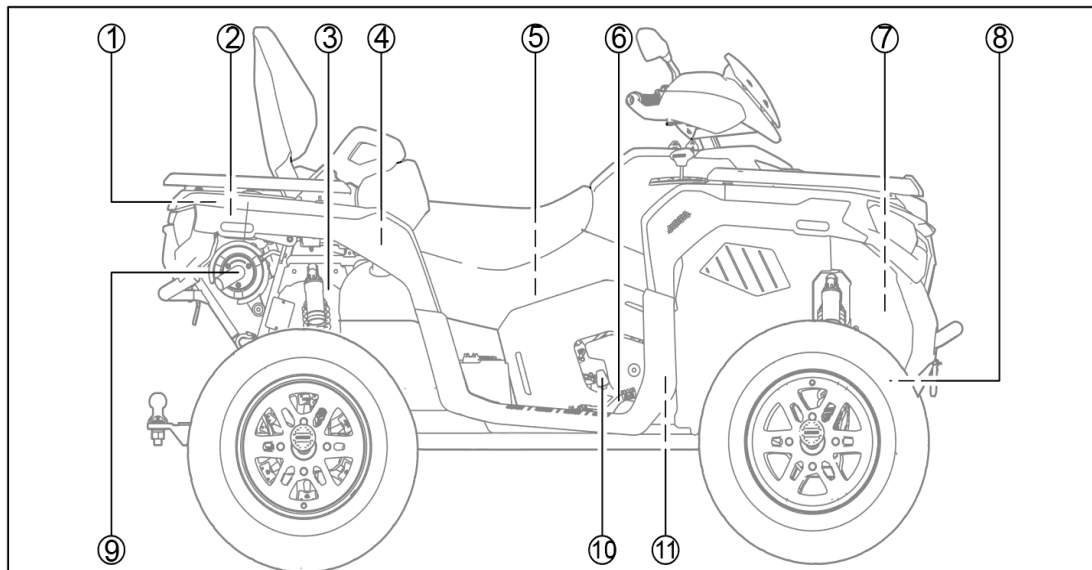


- ① Radiator Cap
- ② Fuse BOX
- ③ Battery
- ④ USB

- ⑤ DC
- ⑥ Air Cleaner
- ⑦ Rear brake fluid reservoir
- ⑧ Rear Shock Absorbers

- ⑨ Front Shock Absorber
- ⑩ Front Spark Plug
- ⑪ V-belt case drain plug

Left view



① Tool Kit

② Rear storage compartment

③ Center storage compartment

④ Fuel Tank Cap

⑤ Rear Spark Plug

⑥ Brake pedal

⑦ Coolant Reservoir

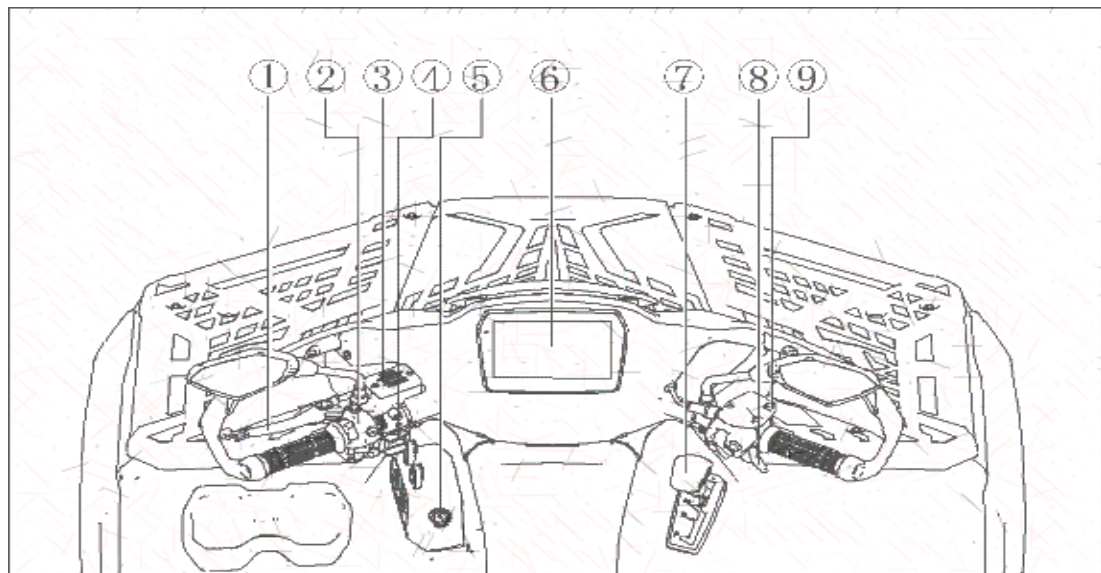
⑧ Winch

⑨ Spark arrester

⑩ Engine oil dipstick

⑪ Oil filter cartridge

Controls and instruments



① Front Brake Lever

② Handlebar Switches

③ Front Brake Fluid Reservoir

④ Winch Switch

⑤ Main Switch

⑥ Multifunction Meter

⑦ Drive Select Lever

⑧ Throttle Lever

⑨ Throttle Limiter

CONTROL FUNCTIONS

WARNING

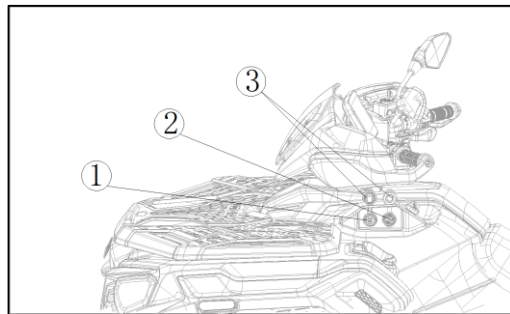
WARNING indicates a potential hazard that could result in serious injury or death.

DC Outlet and USB

The DC Outlet and USB are located under the left handlebar.

On the circuit, the DC Outlet is equipped with a 15A fuse; The USB is equipped with a 5A fuse.

Both the DC Outlet and USB have a cap. Remove it to connect an electrical accessory.



1. USB

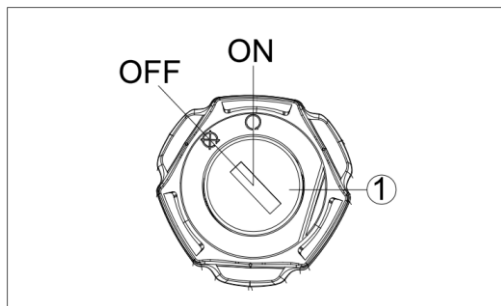
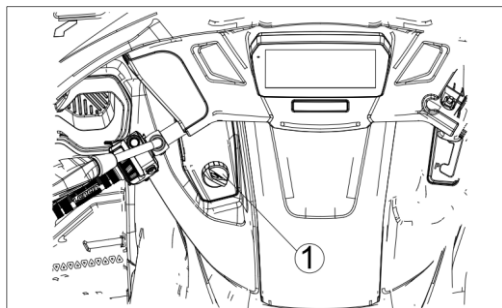
2. DC Outlet

3. Caps

NOTICE

Do not connect an electrical accessory rated higher than 120 W, or the battery may become discharged.

Main switch



① Main switch

Functions of the respective switch positions are as follows:

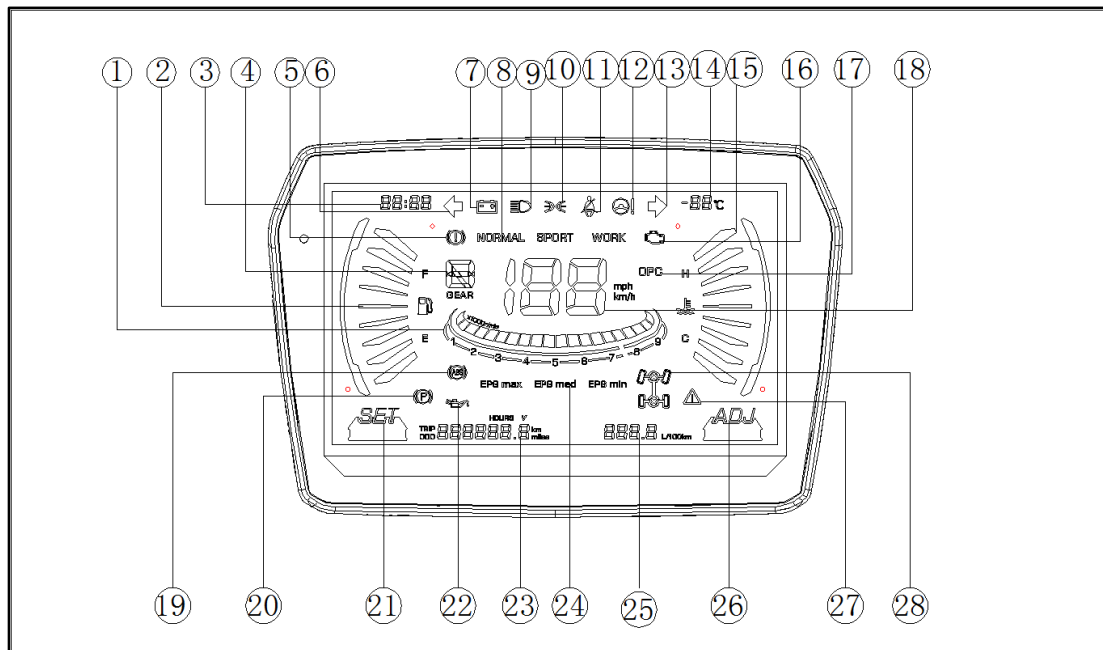
1. OFF “” :

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

2. ON “” :

The engine can be started only at this position.

Multifunction Meter



FEATURES & CONTROLS

1	Engine RPM	11	Seat belt indicator	21	SET-mode select button
2	Fuel gauge	12	EPS fault indicator	22	Oil pressure indicator
3	Clock	13	Turning light, RH	23	Rider Information Center
4	Gear position indicator	14	Environment temperature	24	EPS mode
5	Brake fluid alarm	15	Coolant Temperature	25	Average engine fuel consumption
6	Turning light, LH	16	EFI fault indicator	26	ADJ-mode adjust button
7	Voltmeter alarm	17	OPC indicator	27	Override indicator
8	Drive mode	18	Speedometer	28	2WD/4WD indicator
9	High beam indicator	19	ABS fault indicator		
10	Position light indicator	20	Parking brake indicator		

1. Engine RPM
Indicate the engine current RPM, keep the RPM away from the red area.
2. Fuel gauge
Display the fuel level in the fuel tank.
3. Clock
Display the current time. (This dashboard section can be adjusted to correct time by using the “ADJ” and “SET” button.)
4. Gear position indicator
Display the current gear position.
5. Brake fluid alarm.
6. Turning light, LH (If equipped)
When switch turns to left turning light position, the indicator is on.
7. Voltmeter alarm
When the voltage is lower than 12.2V, the light is on.
8. Drive mode (if equipped)
Displays the current driving mode, a total of three modes, can be adjusted through the right handlebar switch.
9. High beam indicator.
This indicator illuminates when the headlight switch turns to high beam position.
10. Position light indicator
This indicator illuminates when the light switch turns to position light.
11. Seat belt indicator (if equipped)
When lit, seat belt not buckled with vehicle immobilized. Flashing when vehicle is moving.
12. EPS fault indicator.
This indicator displays when a fault occurs in the Electronic Power Steering system. Please stop the vehicle and contact your dealer to eliminate the fault.
13. Turning light, RH
When switch turns to right turning light position, the indicator is on.
14. Environment temperature indicator
Indicates the current ambient air temperature.

15. Coolant Temperature

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

16. 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.

17. OPC Indicator

Occupant Presence Control. This indicator displays if the driver left vehicle without parking. Buzzer will sound at the same time.

18. 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 “SET” buttons.

19. ABS fault indicator (if equipped)

This indicator displays when a fault occurs in the anti-lock braking system. Please stop the vehicle and contact your dealer to eliminate the fault.

20. Parking brake indicator (If equipped)

This indicator displays when parking brake function is activated.

21. SET - mode select button

Use this button together with the “ADJ” button to adjust functions on the dashboard. Refer to “Dash board Navigation / Settings / Adjustments”.

22. 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, inspect and eliminate the fault.
23. Rider Information Center
Rider Information Center. This dashboard section can be toggled using the “SET” button to display: “TOTAL” -The odometer accumulated vehicle distance traveled in miles/kilometers, “TRIP”-The trip distance traveled, “Hour”-The accumulated engine run time, “V”- Battery voltage.
24. EPS mode
Display the current Electronic Power Steering system mode, a total of three modes, can be adjusted by the right handlebar switches.
25. Average engine fuel consumption
The average amount of fuel consumed by the engine per hundred kilometers is displayed, reflecting the comprehensive fuel consumption under different driving conditions, and

- the greater the mileage, the more accurate the fuel consumption display.
26. ADJ - mode adjust button
Use this button together with the “SET” button to adjust functions on the dashboard. Refer to “Dash board Navigation / Settings / Adjustments”.
27. Override indicator
When depress the override button, override indicator is on, 4WD-LOCK speed limitation will be released in this state.
28. 2WD/4WD indicator
Display the current drive mode, there are 3 drive modes, 2WD, 4WD and 4WD-LOCK

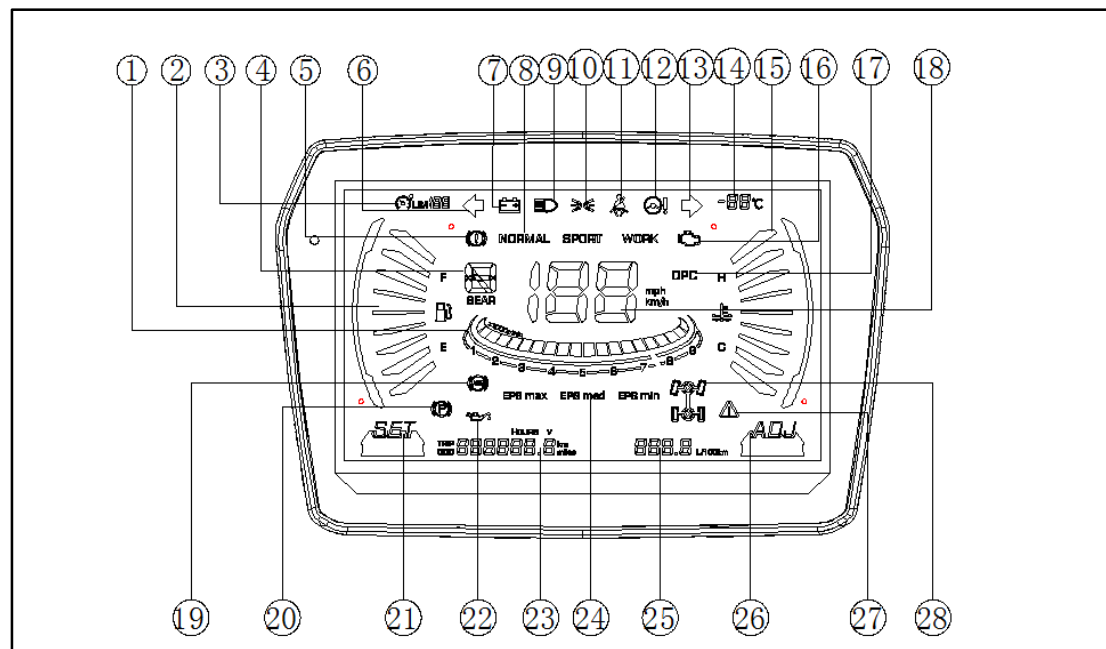


Always stop the vehicle before answering a call. Distracted driving can result in an accident causing serious injury or death.

Dashboard Navigation / Settings / Adjustments

Item	Display	SET	ADJ	Operation	Result
Odometer	TOTAL	Short press		Shift to trip	TRIP
		Long press		Average engine fuel consumption resets to be zero	
Trip distance	TRIP	Short press		Shift to engine hour	Hour
		Long press		Trip resets to be zero	TRIP
Engine hour	Hour	Short press		Shift to battery voltage	V
battery voltage	V	Short press		Odometer	TOTAL
unit setting	Non- time setting interface		Short press	Shift to unit setting	Switch between mph and km/h
Time setting interface	Home interface		Long press	Shift to set time	Hour setting
	Hour setting		Short press	Shift to minute setting	Minute setting
	set time	Short press		Add 1 by every press for hour	
			Long press	Save setting	Home interface

Multifunction Meter (ABS EDITION)



FEATURES & CONTROLS

1	Engine RPM	11	Seat belt indicator	21	SET-mode select button
2	Fuel gauge	12	EPS fault indicator	22	Oil pressure indicator
3	Speed limit indicator	13	Turning light,RH	23	Rider Information Center
4	Gear position indicator	14	Environment temperature	24	EPS mode
5	Brake fluid alarm	15	Coolant Temperature	25	Average engine fuel consumption
6	Turning linght,LH	16	EFI fault indicator	26	ADJ-mode adjust button
7	Voltmeter alarm	17	OPC indicator	27	Override indicator
8	Drive mode	18	Speedometer	28	2WD/4WD indicator
9	High beam indicator	19	ABS fault indicator		
10	Position light indicator	20	Parking bake indicator		

1. Engine RPM
Indicate the engine current RPM, keep the RPM away from the red area.
2. Fuel gauge
Display the fuel level in the fuel tank.
3. Speed limit indicator
Display the speed limit. (The speed limit can be adjusted to what you want by using the "ADJ" and "SET" button. Including lifting the speed limit)
4. Gear position indicator
Display the current gear position.
5. Brake fluid alarm.
6. Turning light, LH
When switch turns to left turning light position, the indicator is on.
7. Voltmeter alarm
When the voltage is lower than 12.2V, the light is on.
8. Drive mode (If equipped)
Displays the current driving mode, a total of three modes, can be adjusted through the right handlebar switches.
9. High beam indicator.
This indicator illuminates when the headlight switch turns to high beam position.
10. Position light indicator
This indicator illuminates when the light switch turns to position light.
11. Seat belt indicator (If equipped)
When lit, seat belt not buckled with vehicle immobilized. Flashing when vehicle is moving.
12. EPS fault indicator.
This indicator displays when a fault occurs in the Electronic Power Steering system. Please stop the vehicle and contact your dealer to eliminate the fault.
13. Turning light, RH
When switch turns to right turning light position, the indicator is on.
14. Environment temperature
Indicates the current environment temperature.

15. Coolant Temperature

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

16. 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.

17. OPC Indicator

Occupant Presence Control. This indicator displays if the driver left vehicle without parking. Buzzer will sound at the same time.

18. 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 “SET” buttons.

19. ABS fault indicator (If equipped)

This indicator displays when a fault occurs in the anti-lock braking system. Please stop the vehicle and contact your dealer to eliminate the fault.

20. Parking brake indicator (If equipped)

This indicator displays when parking brake function is activated.

21. SET - mode select button

Use this button together with the “ADJ” button to adjust functions on the dashboard. Refer to “Dash board Navigation / Settings / Adjustments”.

22. 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, inspect and eliminate the fault.

- 23. Rider Information Center
Rider Information Center. This dashboard section can be toggled using the “SET” button to display: “TOTAL” -The odometer accumulated vehicle distance traveled in miles/kilometers, “TRIP”-The trip distance traveled, “Hour”-The accumulated engine run time, “V”- Battery voltage.
- 24. EPS mode
Display the current Electronic Power Steering system mode, a total of three modes, can be adjusted by the right handlebar switches.
- 25. Average engine fuel consumption
The average amount of fuel consumed by the engine per hundred kilometers is displayed, reflecting the comprehensive fuel consumption under different driving conditions, and

the greater the mileage, the more accurate the fuel consumption display.

- 26. ADJ - mode adjust button
Use this button together with the “SET” button to adjust functions on the dashboard. Refer to “Dash board Navigation / Settings / Adjustments”.
- 27. Override indicator
When depress the override button, override indicator is on, 4WD-LOCK speed limitation will be released in this state.
- 28. 2WD/4WD indicator
Display the current drive mode, there are 3 drive modes, 2WD, 4WD and 4WD-LOCK.



Always stop the vehicle before answering a call. Distracted driving can result in an accident causing serious injury or death.

Dashboard Navigation / Settings / Adjustments

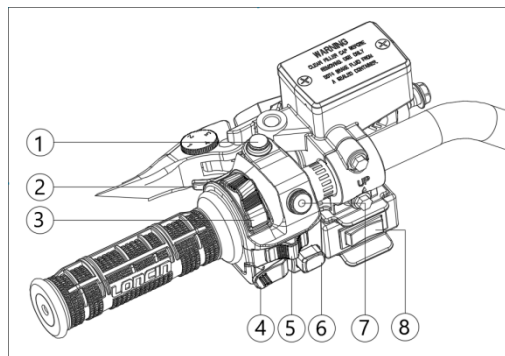
Item	Display	SET	ADJ	Operation	Result
		Long press		Start button function	Adjust the meter display by doing the following
Odometer	TOTAL	Short press		Shift to trip	TRIP
		Long press		Average engine fuel consumption resets to be zero	
Trip distance	TRIP	Short press		Shift to engine hour	Hour
		Long press		Trip resets to be zero	TRIP
Engine hour	Hour	Short press		Shift to battery voltage	V
Battery voltage	V	Short press		Odometer	TOTAL
unit setting	Non- time setting interface		Short press	Shift to unit setting	Switch between mph and km/h
Speed limit setting	Home interface		Long press	Open the speed limit	Speed limit adjustment
	Speed limit adjustment		Short press	1、 When the speed unit is KM/H, the cycle shifts from	

Item	Display	SET	ADJ	Operation	Result
				30KM/H to 90KM/H. Each speed limit is increased by 10KM/H. 2、 When the speed unit is mph, the cycle shifts from 20mph to 55mph. Every time you push the speed limit you increase by 5mph. Note: When the vehicle is traveling, the speed limit value will be selected from a value greater than or equal to the current speed.	
	Speed limit adjustment		Long press	Turn off speed limit	Home interface

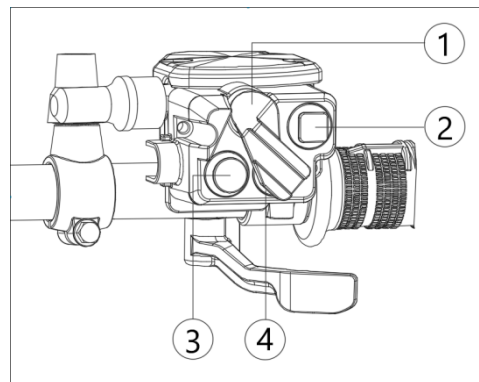
(Key action time setting: long press $\geq 3S$; short press $< 1S$)

Stop operation for 10S, the instrument will automatically save the current operation result and lock the button.

Handlebar Switches



- ① Emergency lamp switch ② Override switch
- ③ Light switch ④ Horn switch
- ⑤ Turning light switch ⑥ Engine stop switch
- ⑦ Start switch ⑧ Winch switch



- ① Switch handle
- ② EPS mode switch
- ③ On-Command drive switch "LOCK/4WD"
- ④ On-Command drive switch "2WD/4WD"

Engine stop switch" /

When the switch is in the RUN () position, the engine will be operated. When the switch is in OFF () position, the engine will not operate. The engine stop switch controls ignition and can be used at all times to stop the engine, especially in an emergency. The engine will not start when this switch is in "OFF" position.

Start switch "

Push () this switch to let the starter motor crank the engine.

NOTE:

If the starter switch is pushed with the main switch "ON" and the engine stop switch "OFF", the starter motor will be activated but the engine will not start. To start the engine, make sure the engine stop switch at "RUN" position.

Light switch" //OFF/

Set the switch to "" to turn on the high beam and the taillight.

Set the switch to "" to turn on the low beam and the taillight.

Set the switch to "OFF" to turn off all the lights.

Set the switch to "" to turn on the tail light license plate light and front position light.

WARNING

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

Turning light switch “ / ”

Turn the switch to position  , the left turn signal indicator and left turning light will be on.

Turn the switch to position  , the right turn signal indicator and right turning light will be on.

Override switch “ ”

Top speed is normally limited when operating in differential gear lock. If conditions require more engine power when riding forward, push and hold this switch to override the differential gear lock speed limiting function. Releasing the

switch restores the speed limiting function.

Horn switch “ ”

This switch is used for horn warning.

Emergency lamp switch “ ”

This switch is used when the ATV has an emergency and needs double flashing.

Winch switch “ IN/ OUT ”

This switch is used for winch operation.

EPS mode switch “ EPS ”

This switch is used to adjust the EPS mode.

On-Command drive switch

This ATV is equipped with on-command “2WD/4WD” and “LOCK/4WD” switches:

- Two-wheel drive (2WD): Power is supplied to the rear wheels only. The Switch handle is moved to the left and the switch button is outward.
- Four-wheel drive (4WD): Power is supplied to the rear and front wheels. The Switch handle is moved to the left and the switch button is pushed in.
- Four-wheel drive LOCK (LOCK): Power is

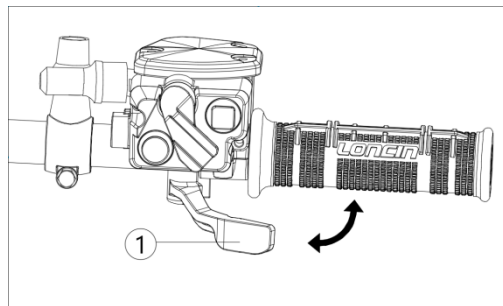
supplied to the rear and front wheels. The Switch handle is moved to the right and the switch button is pushed in. The front differential is locked, so all wheels turn at the same speed.

NOTE:

- When the on-command drive switch is set to “LOCK”, the indicator light “” will flash until the front differential is locked.
- Riding before the front differential is properly engaged (e.g., when the indicator light is flashing) will cause the engine speed to be limited until engagement is complete.
- When the ATV is in LOCK, the maximum traveling speed is limited to 30 km/h (19 mph). If conditions require full engine power to be available, press the Release speed limit switch to disable the LOCK speed limiter.

Throttle Lever

The ATV is equipped with a throttle lever to decrease maximum engine power for an unskilled operator. The limiter functions by restricting the moving distance of the throttle lever.



① Throttle Lever

WARNING

POTENTIAL HAZARD

Malfunction of throttle.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Always check the operation of the throttle level before you start the engine. If it doesn't work smoothly, check for the reason. Correct the problem before riding this ATV. Consult your dealer if you cannot find or solve the problem by yourself.

WARNING

HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete a certified training course offered by The ATV Safety Institute (ASI). They should then regularly practice the skills learned in the course and the operating techniques described in the Owner's Manual

WARNING

HAZARD

Operating this ATV at excessive speeds.

WHAT CAN HAPPEN

Increases your chances of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

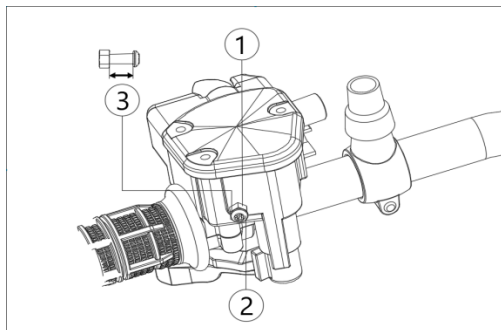
Always go at a speed that is proper for the terrain, visibility and operating conditions, and your experience.

NOTICE

If the throttle limiter is adjusted, verify the changes in throttle in an open, non-traffic area.

Never try to adjust the limiter by racing the engine in neutral or in gear with brake on, or the engine may be damaged.

Mechanical Speed Limiter



① Locknut

② Screw

③ No more than 13mm(0.51in)

A mechanical speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to maximum travel. Turning in the screw limits the throttle lever travel, which reduces the maximum engine power available and decreases the maximum speed of the ATV.

NOTE:

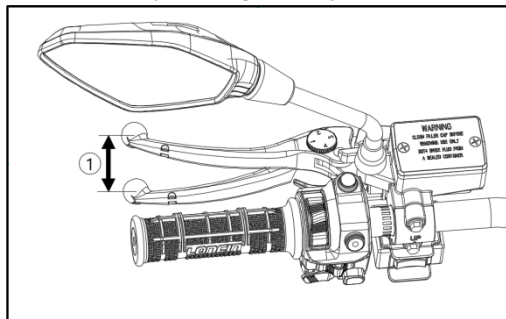
Your **ATV** is set for maximum throttle opening from the factory.

CAUTION

Always loosen the locking nut before each adjustment. Do not turn the adjusting screw out more than 13 mm (0.51 in). Always make sure the throttle lever free play remains adjusted to 3 mm ~ 5 mm (0.12 in ~ 0.20 in). Tighten the locking nut when the adjustment is completed.

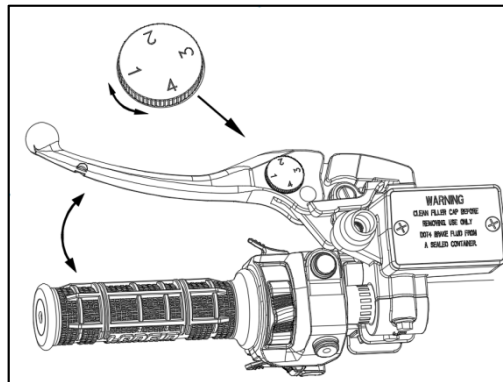
Front Brake Lever

The brake lever is located on the right handlebar. Pull the lever toward handlebar to apply the front brake. Check the free play of front brake lever. You can adjust the brake lever by turning the adjuster



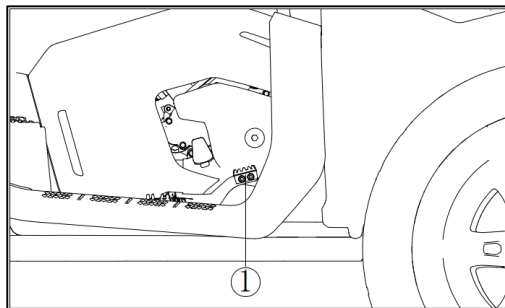
① Front brake lever

Brake lever has 4 gears to adjust, adjust the brake lever and handle clearance. From the first to the four gears the gap gradually becomes smaller



Brake Pedal

The brake pedal is located on the right side of the machine. Push down the pedal to apply the rear brake. If the ATV have CBS (Combination Braking System), Push down the pedal to apply both the front and rear brake.

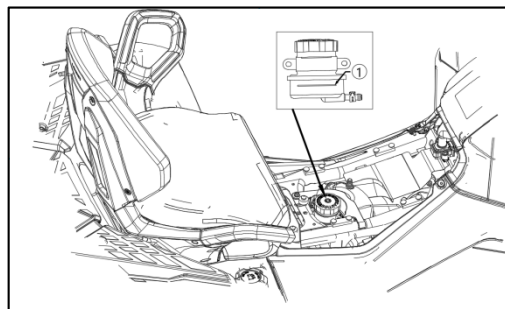


① Brake pedal

Foot Brake Reservoir Fluid Level Check

NOTE

Remove the seat and then check the fluid level. When checking the fluid level, the ATV must be on level ground. If fluid level is lower than the “lower” mark 1, add DOT4 brake fluid. Don’t overfill.

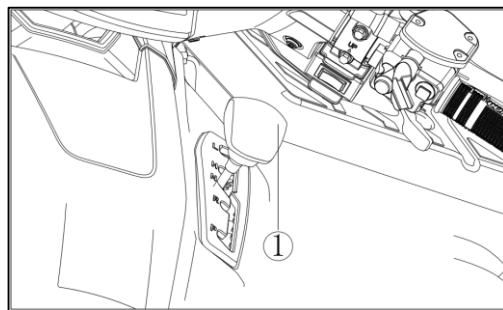


NOTICE

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.

Drive Select Lever

The drive select lever is located on the right side of the vehicle. The drive select lever is used to shift your machine into the forward, neutral, reverse positions.



① Drive select lever

L (Low-range)

N (Neutral)

P (Park positions)

H (High-range)

R (Reverse)

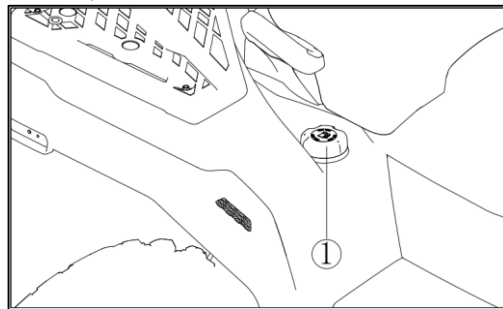
NOTE:

Always stop the ATV and press the foot brake pedal before shifting the transmission. Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage. To change gears, stop the vehicle, and with the engine idling, move the lever to the desired gear. Whenever the ATV is left unattended, always place the transmission in the PARK position. Maintaining shift linkage adjustment is important to assure proper transmission function. See your dealer if you experience any shifting problems.

Fuel Tank Cap

Only use gasoline with the recommended octane rating. Avoid filling the tank in the rain or where heavy dust is blowing so that the fuel does not get contaminated.

Never fill the tank completely to the top. As the fuel expands in a warm tank, it may overflow from the vent hose. After refueling, make sure the filler cap is closed securely.



① Fuel tank cap

Fuel

Use clean, fresh unleaded gasoline with a minimum Antiknock Index of 87. The octane rating of a gasoline is a measure of its resistance to detonation or "Knocking." The Antiknock Index is an average of the Research Octane Number (RON) and the Motor Octane Number (MON) as shown in the table below.

Octane Rating Method	Minimum Rating
Antiknock Index $\frac{\text{RON} + \text{MON}}{2}$	87

NOTICE

If engine "knocking" or "pinging" occurs, use a different brand of gasoline of a higher octane rating. If this condition is allowed to continue it can lead to severe engine damage.

Gasoline quality is important. Fuels of low quality or not meeting standard industry specifications may result in unsatisfactory performance. Operating problems that result from the use of poor quality or no recommended fuel may not be covered under your warranty.

Fuels Containing Oxygenates

Gasoline frequently contains oxygenates (alcohols and ethers) especially in areas of the U.S. and Canada which are required to sell such reformulated fuels as part of a strategy to reduce exhaust

The types and volume of fuel oxygenates approved for use in unleaded gasoline by the U.S.

Environmental Protection Agency includes a broad range of alcohols and ethers, but only two components have seen any significant level of commercial use.

Gasoline/Alcohol Blends-Gasoline containing up to 10% ethanol (alcohol produced from agricultural products such as corn), also known as "gasohol" is approved for use.

NOTICE

Avoid using blends of unleaded gasoline and methanol (wood alcohol) whenever possible, and never use "gasohol" containing more than 5% methanol. Fuel system damage and performance problems may result.

Gasoline/Ether Blends- The most common ether is methyl tertiary butyl ether (MTBE). You may use gasoline containing up to 15% MTBE

NOTICE

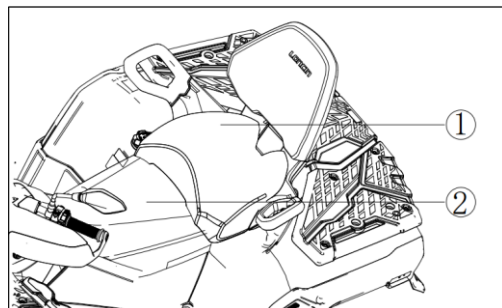
Never use gasoline with an octane rating lower than the minimum specified by dealers

Never use "gasohol" with more than 10% ethanol, or more than 5% methanol. Gasoline containing methanol must also be blended with solvents and corrosion inhibitors.

Certain ingredients of gasoline may cause paint fading or damage. Be extra careful not to spill gasoline or gasoline oxygenates blends during refueling.

Never store this product with in the fuel system. Before storage it is recommended that you drain all fuel from the fuel tank.

Seat



① Seat1

② Seat2

NOTE:

Always make sure the seat is securely fitted.

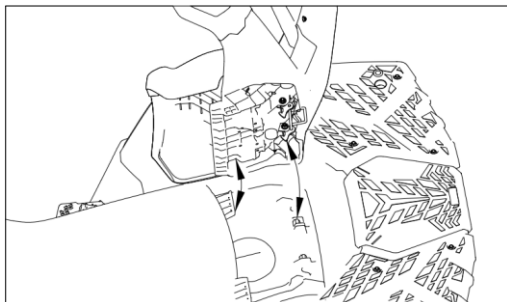
⚠ WARNING

Improperly installing the seat could be hazardous.

Failing to install the seat properly could allow the seat to move and cause the rider to lose control.

Make sure you are in proper position and that the seat is attached securely when you ride.

Seat1

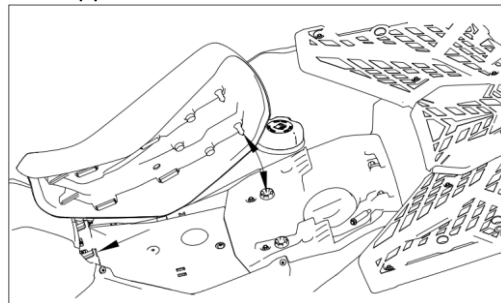


To remove the seat, first pull up one side of the seat in the back, then pull up the other side.

To install the seat, insert the projections on the front of the seat into the holder on the rear of the air filter, and push down on the seat at the rear when the locks on the rear of the seat aim at the support cushion under the seat.

Seat2

To install the seat, insert the protruding front of the seat into the rear seat frame, and then push the seat down when the latch on the back of the seat is aligned with the support tube under the seat



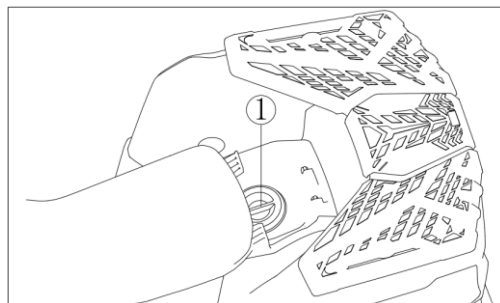
Storage Compartments

The vehicle is equipped with two storage compartments

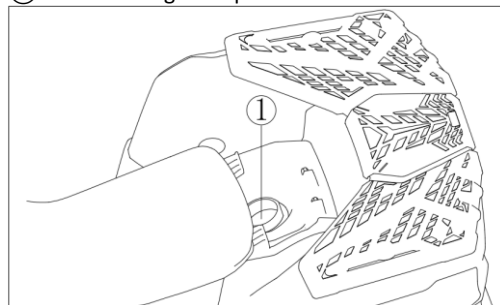
NOTICE

Do not store metal or sharply edged objects, like tools, in the storage compartments. If they must be stored, wrap them in appropriate cushion material to prevent damaging the storage compartments.

The center storage compartment is located at the center of the vehicle and under the seat². To access the storage compartment, remove the storage compartment cover by turning it counterclockwise.

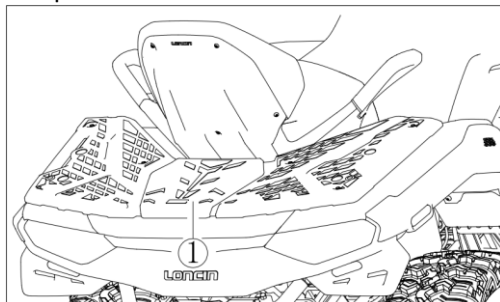


① Center storage compartment cover

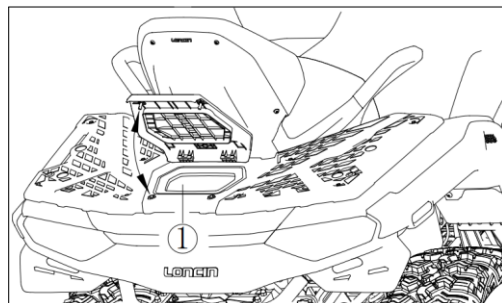


① Center storage compartment

The rear storage compartment is located under the rear carrier. To access the storage compartment, open the storage compartment cover.



① Rear storage compartment cover



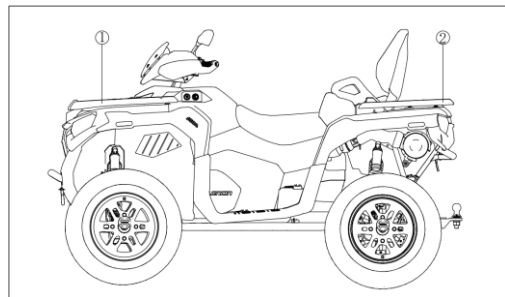
① Rear storage compartment

Front and Rear Carriers

This vehicle is equipped with carriers on the front and rear

Maximum load

Front	45kg (100 lbs)
Rear	90kg (200 lbs)



- ① Front carrier
- ② Rear carrier

WARNING

HAZARD

Overloading front and rear carriers or carrying cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for each carrier. Cargo should be properly distributed and securely attached.

Reduce speed when carrying cargo. Allow greater distance for braking.

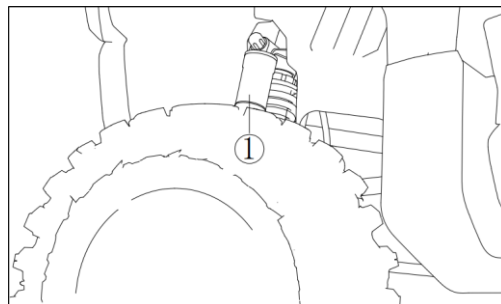
Always follow the instructions in your Owner's Manual for carrying cargo

Front and rear shock absorbers

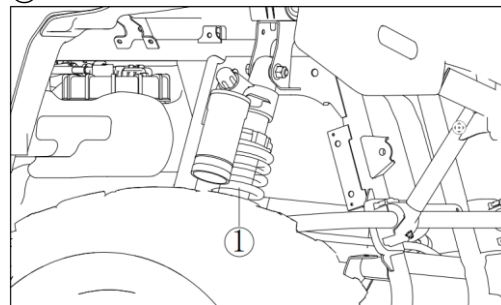
The spring preload can be adjusted to suit the rider's weight and the riding conditions. Suspension adjustment and loading can have an effect on your vehicle handling and comfort.

⚠ WARNING

Suspension adjustment could affect vehicle handling. Always take time to familiarize yourself with the vehicle's behavior after any suspension adjustment have been made.



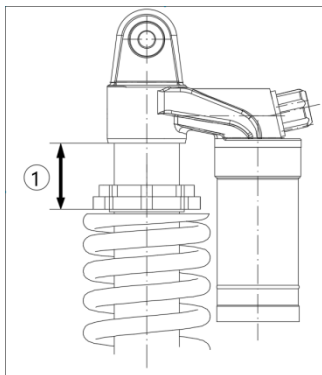
① Front shock absorber



① Rear shock absorber

Suspension Adjustment

Adjustment	category	value
Factory Spring preload	Front suspension	84 mm
	Rear suspension	74 mm



Front : ① = 84mm (3.307 in)

Rear : ① = 74mm (2.913 in)

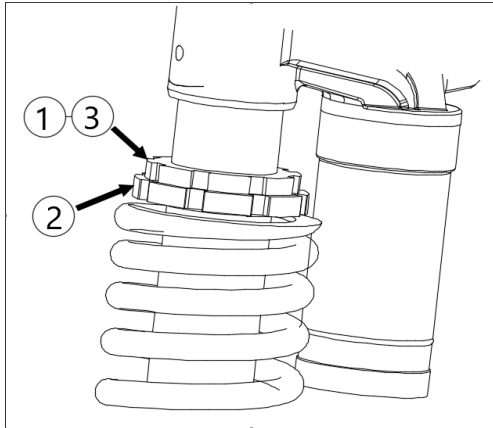
⚠ WARNING

Always adjust the shock absorber assemblies on the left and right side to the same setting. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident

Shorten the springs for a firmer ride and rough conditions.

Lengthen the springs for a softer ride and smooth conditions.

Adjust spring preload by turning the adjuster ring.



- Step 1: Loosen top locking ring
- Step 2: Turn adjusting ring accordingly
- Step 3: Tighten top locking ring

Shock Absorber Compression Damping
Compression damping controls how the shock absorber restrains the compression stroke.



Compression Damping (Top of shock absorber)

- 1. Increase (firmer)
- 2. Decreases (softer)

Turn adjuster clockwise to increase shock damping action (stiffer).

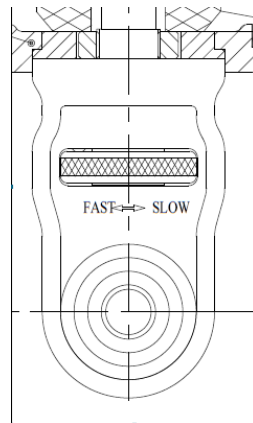
Turn adjuster counterclockwise to decrease shock damping action (softer). Compression damping adjustment totaling 7 positions, factory setting is 4 positions.

WARNING

Make sure compression damping setting is the same on both sides

Shock Absorber Rebound Damping

Rebound damping controls how the shock absorber restrains the extension stroke.



Rebound Damping(Bottom of shock absorber)

COMPRESSION DAMPING

1. Increases damping (stiffer)
2. Decreases damping (softer)

Turn adjuster clockwise to increase shock damping action (stiffer).

Turn adjuster counterclockwise to decrease shock damping action (softer).

Rebound damping adjustment totaling 7 positions, factory setting is 4 positions.

WARNING

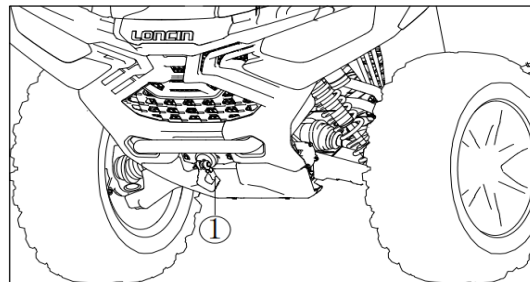
Make sure compression damping setting is the same on both sides

Winch (equipped models)

The winch is located under the front grille of the vehicle

WARNING

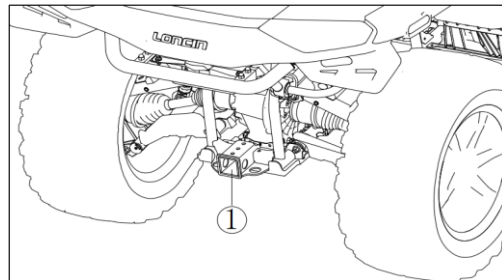
To reduce the risk of injury or death ,read and follow the Winch Owner's Manual prior to use.



① Winch

Trailer Hitch

This vehicle is equipped with a 5 cm (2 in) trailer hitch receiver. The Trailer hitch is located at the rear of the vehicle.



① Trailer hitch

PRE- OPERATION CHECKS

Pre-Ride Inspection Check List

Before operating this ATV, be sure to check the items listed in the following table.

What to Do Before Starting the Engine (Key OFF)

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	PAGE
Fuel	•Check fuel level in fuel tank, and add recommended fuel if necessary. •Check fuel line for leakage. Correct if necessary.	5-27 6-4
Engine oil	•Check oil level in engine, and add recommended oil to specified level if necessary. •Check ATV for oil leakage. Correct if necessary.	6-5 9-11
Gearbox Oil	•Check oil level in Gearbox, and add recommended oil to specified level if necessary. •Check ATV for oil leakage. Correct if necessary.	9-15
Final gear oil	•Check ATV for oil leakage. Correct if necessary.	9-17
Coolant	•Check coolant level in reservoir, and add recommended coolant to specified level if necessary. •Check cooling system for leakage. Correct if necessary.	9-21
Brake pedal	•Make sure that operation is smooth. Lubricate pedal	6-5

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	PAGE
	pivoting point if necessary.	9-35
Front brake	•Check brake pads for wear, and replace if necessary. •Check brake fluid level in reservoir, and add specified brake fluid to specified level if necessary. •Check hydraulic system for leakage. Correct if necessary.	9-32
Rear brake	•Check pedal free play, and adjust if necessary. •Check brake pads for wear, and replace if necessary. •Check brake fluid level in reservoir, and add specified brake fluid to specified level if necessary. •Check hydraulic system for leakage. Correct if necessary.	9-32
Throttle lever	•Make sure that operation is smooth. Lubricate cable and lever housing if necessary. • Check lever free play, and adjust if necessary.	6-5 9-31
Control cables	•Make sure that operation is smooth. Lubricate if necessary.	9-40
Wheels and tires	•Check wheel condition, and replace if damaged. •Check tire condition and tread depth. Replace if necessary. •Check air pressure. Correct if necessary.	6-5 9-40
Brake levers	•Make sure that operation is smooth. Lubricate lever	9-35

ITEMS TO BE INSPECTED	INSPECTION TO PERFORM	PAGE
	pivoting points if necessary.	
Axle boots	•Check for cracks or damage, and replace if necessary.	9-35
Chassis fasteners	•Make sure that all nuts, bolts and screws are properly tightened.	
Instruments, lights and switches	•Check operation, and correct if necessary.	
Winch	•Confirm winch hook and rope are not dangling loose. •Confirm winch clutch is locked (positively engaged).	

WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

It could cause an accident or equipment damage.

HOW TO AVOID THE HAZARD

Always check your ATV carefully each time before your use it to be sure the ATV is in safe operation condition.

Always follow inspection and maintenance procedure as shown in the owner's manual

Never allow a passenger on an ATV that is not designed for carrying a passenger

Fuel

Always fill regular unleaded gasoline to your ATV. Do not use leaded gasoline; it will cause damage to internal engine parts. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel.

WARNING

Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Make sure the fuel tank cap is closed securely.

Do not refuel right after the engine has been running and is still very hot.

Engine Oil

Always fill engine oil according to ambient temperature recommended as follows:

Ambient temperature / recommended oil:

-20°C —40°C /SAE5W-40

Make sure the engine oil is at specified level. Add oil as necessary:

The specified level of the crankcase engine oil: 2400ml;

Recommended oil:

SAE80W-90

The specified level of the transmission box engine oil: 400ml.

Final Gear Oil

Make sure that the final gear oil is at the specified level. Add coolant as necessary.

Differential gear oil

Make sure that the differential gear oil is at the specified level. Add coolant as

necessary.

Coolant

Make sure that the coolant is at the specified level. Add coolant as necessary.

Brakes

Brake operation

Test the brakes at slow speed after starting to make sure they are working properly. If any of the brakes does not provide proper function, inspect the brake for wear and the level of the brake fluid.

Brake pedal and brake levers

Check the correct free play in the brake pedal and brake levers. Adjust it if the free play is incorrect.

Throttle Lever

Check the operation of the throttle lever. It must open smoothly and spring back to the idle position when released.

Wheels and Tires

Check tire pressure regularly to make sure it is at the recommended specifications. Also check for wear and damage

Tire pressure

Use a tire pressure gauge to check and adjust tire air pressure when the tires are cold. The tire air pressure must be equal on both sides.

Measure tire pressure by the tire gauge and set the front and rear tires pressure to 45kPa (6.5psi)

WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Operating this ATV with Improper tires or with improper or uneven tire pressure could cause loss of control and an accident.

HOW TO AVOID THE HAZARD

1. The specific tire pressure is shown on the tire.
2. Front: 27×9R14 or 29×9 R14
3. Rear: 27 x 11R14 or 29×11R14

OPERATION

WARNING

Indicates a potential hazard that could result in serious injury or death.

WARNING

POTENTIAL HAZARD

Operating ATV without being familiar with all controls.

WHAT CAN HAPPEN

Loss of control, which could cause an accident or injury.

HOW TO AVOID THE HAZARD?

Read this manual carefully. If you don't understand any control or function, ask your dealer.

Starting the engine

This model is equipped with an ignition circuit cutoff system. To enable starting one of the following conditions must be met:

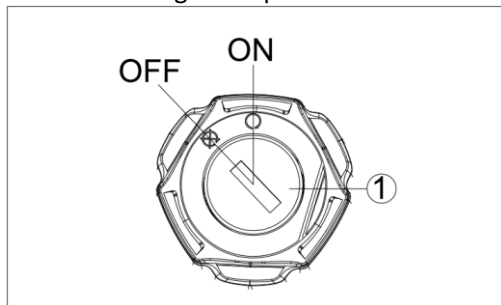
1. The drive select lever is in the neutral or park position.
2. The Front brake lever or brake pedal is applied.

NOTE:

It is recommended to shift into neutral or park and apply the rear brake when starting the engine.

To start the engine

1. Turn the key to "⌚" (on)
2. Press the engine stop switch to "⌚" .



NOTE:

The Oil pressure indicator, EFI fault indicator and the EPS fault indicator should come on, then go off when the engine is started. If a warning light does not go off, have a dealer check the electrical circuit.

3. Apply the brake pedal, then shift the drive select lever into the neutral or park position. The corresponding indicator light should come on. If the indicator light does not come

on, have a LONCIN dealer check the electrical circuit.

4. Apply the front brake lever or brake pedal.
5. Completely close the throttle lever, then push the start switch to crank the engine with the starter. Release the start switch when the engine has started.

WARNING

POTENTIAL HAZARD

Frozen control cables in cold weather.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

NOTE: _____

Push the throttle lever to the middle position (warming up position.) Until the engine runs then release the start button. If the engine fails to start, release the start button, and then push it again. Each cranking should not be more than 5 seconds; the continuous cranking times should not be more than 3 times.

6. Continue warming up the engine until it idles smoothly.

CAUTION: _____

For maximum engine life, always warm the engine up before starting off. Never accelerate hard when the engine is cold!

Operating the drive select lever and driving in reverse

CAUTION: _____

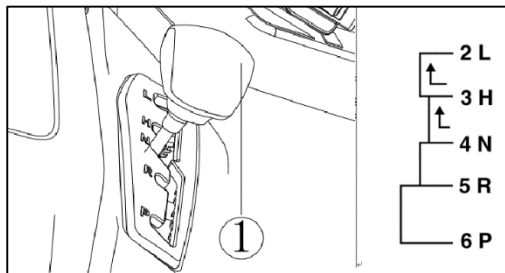
Before shifting, stop the ATV, otherwise the transmission may be damaged.

Shifting: Neutral to High-range and High-range to Low-range

1. Bring the ATV to a complete stop.
2. Apply the brake pedal, and then shift by moving the drive select lever along the shift guide.

NOTE: _____

Make sure that the drive select lever is completely shifted into position.



- ① Drive select lever ② L (Low-range)
 ③ H (High-range) ④ N (Neutral)
 ⑤ R (Reverse) ⑥. P (Park)

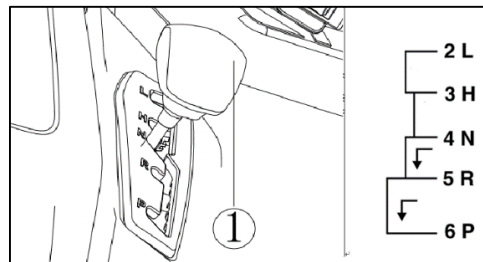
3. Release the brake pedal, and then open the throttle lever gradually.

Shifting: Neutral to Reverse and Reverse to Park

NOTE:

The drive select lever cannot be shifted into or from reverse or park without applying the brake pedal.

1. Bring the ATV to a complete stop.
2. Apply the brake pedal.
3. Shift from neutral to reverse or from reverse to park and vice versa by moving the drive select lever along the shift guide.



- ① Drive select lever ② L (Low-range)
 ③ H (High-range) ④ N (Neutral)
 ⑤ R (Reverse) ⑥. P (Park)

NOTE: _____

When in reverse, the reverse indicator light should come on. If the indicator light does not come on, have a dealer check the electrical circuit.

Due to the synchronizing mechanism in the engine, the indicator light may not come on until the ATV starts moving.

4. Check behind for people or obstacles, and then release the brake pedal.
5. Open the throttle lever gradually and continue to watch to the rear while backing.

WARNING

POTENTIAL HAZARD

Improperly operating in reverse.

WHAT CAN HAPPEN

You could hit an obstacle or even a person behind you, resulting in serious injury.

HOW TO AVOID THE HAZARD

When you shift into reverse, make sure there are no people or obstacles behind you.

When it is safe to proceed, go slowly.

Engine break-in

There is never a more important period in the life of your engine than the first 320 km (200 mi) or 20 hours of riding. For this reason, you should read the following material carefully.

- Do not put an excessive load on the ATV for first several hours of running.
- Never continuous operation above half throttle.
- Cool off the engine for ten minutes after every hour of operation.
- Vary the speed of the engine from time to time.
- 320 km (200 mi) or 20 hours and beyond
The ATV can now be operated normally.

Parking

When parking, stop the engine and shift the drive select lever into park positions. and apply the parking brake on the front brake lever.

WARNING

POTENTIAL HAZARD

Parking on a hill or other incline.

WHAT CAN HAPPEN

The ATV could roll out of control, increasing the chance of an accident.

HOW TO AVOID THE HAZARD

Avoid parking on hills or other inclines. If you must park on an incline, place the ATV transversely across the incline, stop the engine, shift the drive select lever to the park position, and then block the front and rear wheels with rocks or other objects.

Don't park an ATV on a steep hill that you won't be able to climb easily.

1. Bring the ATV to a stop by applying the

brakes.

2. Stop the engine.

3. With the brake pedal applied, shift the drive select lever to the park position.

Accessories and loading

Accessories

While you may find aftermarket products similar in design and quality to genuine LONCIN Accessories, recognize that some aftermarket accessories or modifications are not suitable because of potential safety hazards to you or others. Installing aftermarket products or having other modifications performed to your ATV that change any of the vehicle's design or operation characteristics can put you and others at greater risk of serious injury or death. You are responsible for injuries related to changes in the vehicle.

Keep the following in mind when considering an accessory or operating an ATV which has accessories

- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are riding could affect your ability to control the ATV.
- Do not mount an accessory where it could interfere with your ability to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that limits your ability to move around on the seat, or one that limits your view.
- Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

loading

As originally equipped, this ATV can carry cargo; cargo can change the stability and handling of an ATV. You must use common sense and good judgment when carrying cargo.

⚠ WARNING

Overloading this ATV or carrying or towing cargo could cause changes in vehicle handling which could lead to an accident. Never exceed the stated loading capacity for this ATV.

MAXIMUM LOADING LIMIT

ATV loading limit (total weight of rider, cargo, accessories, and tongue):

300.0kg (661lb)

Front carrier:

45.0kg (99lb)

Rear carrier:

90.0kg (198lb)

Center storage compartment: 8.4L

Rear storage compartment: 8.2L

Trailer hitch:

pulling load (total weight):

1588kg (3500lb)

Tongue weight (vertical weight):

1000kg (2205lb)

WARNING

HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

WARNING

HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV. Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking. Always follow the instructions provided in this section for carrying cargo or pulling a trailer.

With the exception of genuine dealer Parts and Accessories, dealer has no control over the design or application of accessories. In some cases, improper installation or use of accessories, or vehicle modifications, will void the vehicle warranty. In selecting and using accessories, and in loading the vehicle, you are personally responsible for your own safety and the safety of other persons involved.

Because an all-terrain vehicle is sensitive to increases in weight, changes in weight distribution, and aerodynamic forces, you must take extreme care in carrying cargo and/or in the fitting of accessories. The following general guidelines have been prepared to help you make your determinations.

- When adding cargo and pulling a trailer reduce speed. Shift transmission to “L” (Low) range. Braking distance is increased. Use extreme caution when climbing and descending hills, and

traversing slopes. Adding cargo and pulling a trailer can make the vehicle difficult to steer and affect vehicle handling in an unpredictable manner.

- All cargo should be carried as low as possible to reduce the effect on the vehicle's center of gravity. Cargo weight should also be equally distributed from side to side. Place cargo to the rear of a front carrier and to the front of a rear carrier. This helps maintain the stability of the vehicle by centralizing the weight. Do not allow cargo to extend beyond the edges of the carriers.
- Do not place more than 45kg (99 lb) on the front carrier, not more than 90 kg (198lb) on the rear exceed the carrier manufacturer's stated load capacity. In any case, never exceed the limits stated above. Try to maintain front to rear balance by carrying 1.3 times as much weight on the rear carrier as on the front carrier.
- Cargo should be securely attached. Make sure the cargo will not move around while you are riding. Recheck cargo security as often as possible (not while the vehicle is in motion) and adjust as necessary.
- Do not carry heavy or bulky items even on a cargo carrier. They are designed for light items, and overloading can affect handling due to changes in weight distribution and aerodynamic forces.
- Do not install accessories or carry cargo that impairs the performance of the vehicle. Make sure that you have not adversely affected any lighting component, ground clearance, brake or control operation, wheel movement, or any other aspect of the vehicle's operation.
- Always subtract trailer tongue weight from the Maximum Weight capacity. Refer to the LOCATION OF THE WARNING AND SPECIFICATION LABELS chapter for details on the trailer hitch bracket.
- Weight attached to the handlebar will increase the mass of the steering assembly and can result in an unsafe riding condition.

- Windshields, trunk boxes, and other large items have the capability of adversely affecting stability and handling of the vehicle, because of their weight and the aerodynamic forces acting on these surfaces while the vehicle is in operation. Poorly designed or installed items can result in an unsafe riding condition.
- Never ride with passengers on the carriers. This ATV is not designed for carrying passengers on the carriers.

RIDING YOUR ATV

WARNING

Indicates a potential hazard that could result in serious injury or death.

Know your ATV before riding

This ATV is intended for recreational use by experienced operators only. Even if you are an experienced operator of all other all-terrain ATVs or motorcycles, riding the ATV requires special skills acquired through practice. Take your time to fully learn techniques before attempting more difficult maneuvers.

For your safety, be sure you have read this Owner's Manual completely and understand the operation of the controls before you begin to ride. Read all caution and warning labels on your ATV and pay

particular attention to the safety information.

Ride with care and judgment

Get training if you are inexperienced.

Beginners should get training from a certified instructor. Start at slow speeds first to be familiar with this ATV even if you are an experienced rider. Do not operate at maximum performance until you are totally familiar with the ATV's handling and performance characteristics.

Take the time to learn the basic techniques well before attempting more difficult maneuvers.

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course in this Owner's Manual.

Never allow children under 16 years old to ride this ATV.

⚠ WARNING

A child under 16 should never operate an ATV with engine size greater than 90 cc. Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.



Apparel

Always wear clothing suited to the type of riding.

WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Operating without an approved motor-cycle helmet, eye protection, protective clothing increases your chances of a severe head injury or death in the event of an accident.

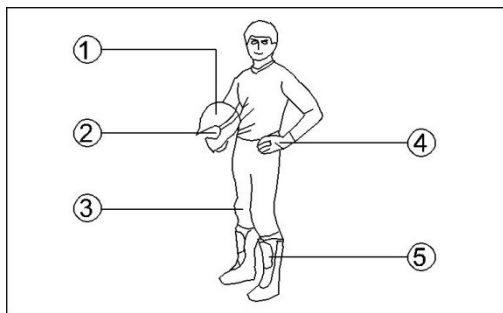
HOW TO AVOID THE HAZARD

Always wear the following to reduce risk of injury in an accident:

Approved motorcycle helmet that fits properly

Eye protection (goggles, helmet face shield, or protective eyewear)

Over-the-ankle boots, gloves, long-sleeved shirt or jacket, and long pants



① Helmet

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

② Eye protection

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

③ Clothing

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

④ Gloves

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

⑤ Boots

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

Do not operate after consuming alcohol or drugs.

The operator's performance capability is reduced by the influence of alcohol or drugs. Consuming alcohol or drug could seriously affect your judgment, cause you to react more slowly, and affect your balance and perception.



⚠ WARNING

POTENTIAL HAZARD

Operating the ATV after consuming alcohol or drugs

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while operating an ATV

Pre-operation checks

Always inspect your ATV each time you use it to make sure the ATV is in safe operating condition

WARNING

POTENTIAL HAZARD

Failure to inspect the ATV before operating.

Failure to properly maintain the ATV.

WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

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

Speed limiter

For riders less experience with this model, the throttle lever housing is equipped with a speed limiter. Do not operate at speeds too fast for your skills or the conditions.

WARNING

POTENTIAL HAZARD

Operating this ATV at speeds too fast for your skills or the conditions.

WHAT CAN HAPPEN

Increases your chances of losing control of the ATV, which can result in an accident.

HOW TO AVOID THE HAZARD

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

Loading and accessories

As originally equipped, this ATV can carry cargo; cargo can change the stability and handling of an ATV. You must use common sense and good judgment when carrying cargo.

WARNING

Overloading this ATV or carrying or towing cargo could cause changes in vehicle handling which could lead to an accident. Never exceed the stated loading capacity for this ATV.

The more weight you carry, the slower you should go. Although conditions vary, it is good practice to drive slowly whenever you are carrying heavier loads or when towing a trailer

During operation

Always keep your feet on the footboards during operation. Otherwise your feet may contact the wheel and could

MAXIMUM LOADING LIMIT

ATV loading limit (total weight of rider, cargo, accessories, and tongue):

230.0kg (507lb)

Front carrier:

45.0kg (99lb)

Rear carrier:

90.0kg (198lb)

Center storage compartment:

8.4L

Rear storage compartment:

8.2L

Trailer hitch:

pulling load (total weight):

1588kg (3500lb)

Tongue weight (vertical weight):

1000kg (2200lb)

cause injury. Avoid wheelies and jumping. You may lose control of the ATV or overturn.

WARNING

Overloading this ATV or carrying or towing cargo could cause changes in vehicle handling which could lead to an accident. Never exceed the stated loading capacity for this ATV.

The more weight you carry, the slower you should go. Although conditions vary, it is good practice to drive slowly whenever you are carrying heavier loads or when towing a trailer.

Modifications and accessories

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

WARNING

Operating this ATV with improper modifications may cause changes in handling which in some situations could lead to an accident

Exhaust system

The exhaust system on the ATV is very hot during and following operation. Never touch the exhaust system. Park the ATV in a place where pedestrians or children are not likely to touch it.

WARNING

POTENTIAL HAZARD

Hot exhaust system.

WHAT CAN HAPPEN

Dry grass or brush or other combustible material accumulated around the engine area could catch fire.

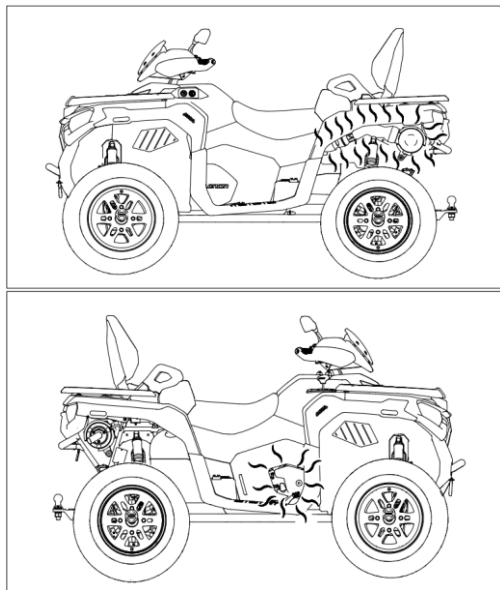
Someone touching the exhaust system during or after operation could be burned.

HOW TO AVOID THE HAZARD

Do not operate, idle, or park the ATV in dry grass or other dry ground cover.

Keep the engine area free of dry grass, brush, or other combustible material.

Do not touch the hot exhaust system.



Be careful where you ride

This ATV is designed for off-road use only.

- Riding on paved surfaces can cause loss of control. Do not ride on any public road, street, or highway. Riding on public roads can result in collisions with other vehicles.

WARNING

POTENTIAL HAZARD

Operating this ATV on public streets, roads or highways.

WHAT CAN HAPPEN

You can collide with another vehicle.

HOW TO AVOID THE HAZARD

Never operate this ATV on any public street, road or highway, even dirt or gravel one. In many states it is illegal to operate ATVs on public streets, roads and highways.

Know the terrain where you ride. Ride cautiously in unfamiliar areas. Stay alert for roots, holes or rocks in the terrain, and other hidden hazards which may cause the ATV to upset

WARNING

POTENTIAL HAZARD

Failure to use extra care when operating this ATV on unfamiliar terrain.

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react. Could result in the ATV overturning or going out of control.

HOW TO AVOID THE HAZARD

Go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.

WARNING

POTENTIAL HAZARD

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

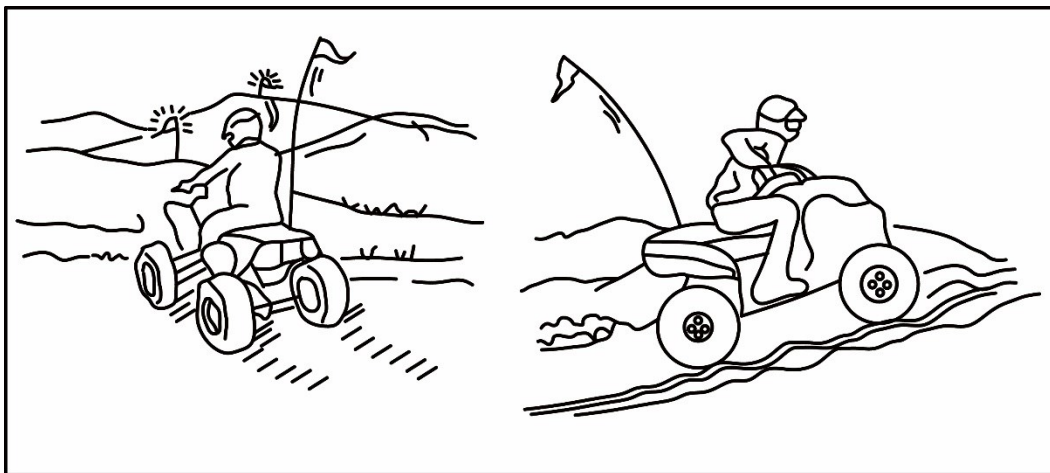
WHAT CAN HAPPEN

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

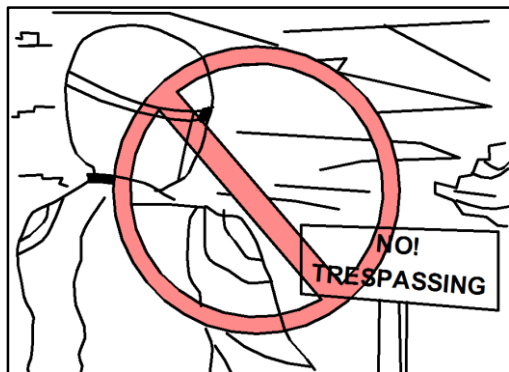
HOW TO AVOID THE HAZARD

Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.

- When riding in an area where you might not easily be seen, such as desert terrain, mount a caution flag on the ATV.



- Do not ride on private property without getting permission.



- Select a large, flat area off-road to become familiar with your ATV. Make sure that this area is free of obstacles and other riders. You should practice control of the throttle, brakes, shifting procedures, and turning techniques in this area before trying more difficult terrain. Always avoid riding on paved surfaces: the ATV is designed for off-road

use only, and handling maneuvers are more difficult to perform on pavement.

- Set the parking brake and start the engine. Once it has warmed up you are ready to begin riding your ATV. Remember that the engine and exhaust pipe will be hot when riding and afterwards; do not allow skin or clothing to come in contact with these components.

Turning you ATV

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

WARNING

POTENTIAL HAZARD

Turning improperly.

WHAT CAN HAPPEN

The ATV could go out of control, causing a collision or overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for turning as described in this Owner's Manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions.

As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.

This procedure should be practiced at slow speed many times in a large off-road area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat.

Improper riding procedures such as abrupt throttle changes, excessive braking, incorrect body movements, or too much speed for the sharpness of the turn may cause the ATV to tip. If the ATV begins to tip over to the outside while negotiating a turn, lean more to the inside. It may also be necessary to gradually let off on the throttle and steer to the outside of the turn to avoid tipping over.

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

Climbing uphill

Use proper riding skill to avoid vehicle overturns on hills. Be sure that you can maneuver your ATV well on flat ground before attempting any incline and then practice riding first on gentle slopes. Try more difficult climbs only after you have learned more skills. In all cases avoid inclines with slippery or loose surfaces, or obstacles that might cause you to lose control. It is

important when you climbing a hill to make sure that your weight is transferred forward on the ATV. This can be accomplished by leaning forward and, on steeper inclines, standing on the footboards and leaning forward over the handlebars.

If you are climbing a hill and you find that you have not properly judged your ability to make it to the top, you should turn the ATV around while you still have forward motion (provided you have the room to do so) and descend the hill.

If your ATV has stalled or stopped and you believe you can continue up the hill, restart carefully to make sure you do not lift the front wheels which could cause you to lose control. If you are unable to continue up the hill, dismount the ATV on the uphill side. Physically turn the ATV around and then go downhill. If you start to roll backwards.

Do not use the rear brake to stop or try to put the ATV in gear. The ATV could easily tip over backwards. Instead, dismount the ATV immediately on the uphill side.

WARNING

POTENTIAL HAZARD

Improperly crossing hills or turning on hills.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

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

Be very careful when turning on any hill.

Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:

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

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the uphill side of the ATV.

WARNING

POTENTIAL HAZARD

Stalling rolling backwards or improperly dismounting while climbing a hill.

WHAT CAN HAPPEN

Could result in the ATV overturning.

HOW TO AVOID THE HAZARD

Use the proper gear and maintain a steady speed when climbing a hill.

If you lose all forward speed:

- Keep weight uphill.
- Apply the brakes.
- Lock the parking brake after you are stopped.

If you begin rolling backwards:

- Keep weight uphill.
- Never apply the rear brake while rolling backwards.
- Apply the front brake.
- When fully stopped, apply the rear brake as well, and then lock the parking brake.

Dismount on uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in the Owner's Manual

Riding downhill

When riding your ATV downhill, shift your weight as far to the rear and uphill side of the ATV as possible. Move back on the seat and sit with your arms straight. Choose a low gear which will allow the engine compression to do most of the braking for you. Wrong braking may lead to a loss of traction.

Use caution while descending a hill with loose or slippery surfaces. Braking ability and traction may be adversely affected by these surfaces. Wrong braking may also cause a loss of traction. If possible, ride your ATV straight downhill. Avoid sharp angles which could cause the ATV to tip or roll over. Carefully choose your path and ride no faster than you will be able to react to obstacles which may appear.

WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Always follow proper procedures for going down hills as described in this Owner's Manual.

Note: a special technique is required when braking as you go down a hill.

Always check the terrain carefully before you starting down any hill.

Shift your weight backward.

Never go down a hill at high speed.

Avoid going down a hill at an angle that would cause the ATV to lean sharply to one side. Go straight down the hill where possible.

Crossing a slope

Crossing a sloping surface on your ATV requires you to properly position your weight to keep proper balance. Make sure that you have learned the basic riding skills on flat ground before attempting to traverse a sloping surface. Avoid slopes with slippery surfaces or rough terrain that may disturb your balance.

As you travel across a slope, lean your body in the uphill direction. It may be necessary to correct the steering when riding on loose surfaces by pointing the front wheels slightly uphill. When riding on slopes are sure not to make sharp turns either up or down hill.

If your ATV does begin to tip over, gradually steer in the downhill direction if there are no obstacles in your path. As you regain proper balance, gradually steer again in the direction you wish to travel.

WARNING

POTENTIAL HAZARD

Improperly crossing hills or turning on hills

WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual. On level ground.

Be very careful when turning on any hill. Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:

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

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the uphill side of the ATV.

Crossing through shallow water

The ATV can be used to cross slow moving, shallow water of up to a maximum of 375cm (148 inches) in depth. Before entering the water, choose your path cautiously. Enter where there is no sharp drop off, and avoid rocks or other obstacles which may be slippery or upset the ATV. Ride slowly and carefully

Test your brakes after leaving the water. Do not continue to ride your ATV without verifying that you have regained proper braking ability.

NOTE:

After riding your ATV in water, be sure to drain the trapped water. Wash the ATV in fresh water if it has been operated in salt water or muddy conditions.

WARNING

POTENTIAL HAZARD

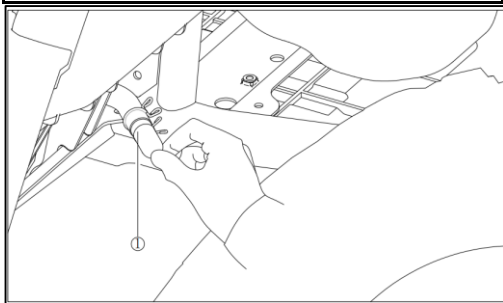
Operating this ATV through deep or fast flowing water.

WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control

HOW TO AVOID THE HAZARD

Never operate this ATV in fast flowing water or in water deeper than that specified in you. Owner's Manual



Riding over rough terrain

Riding over rough terrain should be done with caution. Look out for obstacles which could cause damage to the ATV or could lead to an upset or accident. Be sure to keep your feet firmly fixed on the footboards at all times. Avoid jumping the ATV as loss of control and damage to the ATV may result.

Sliding and skidding

Care should be used when riding on loose or slippery surfaces since the ATV may slide. If unexpected and uncorrected, sliding could cause an accident.

To reduce the possibility for the front wheels to slide in loose or slippery conditions, putting your weight over the front wheels will sometimes help.

If the rear wheels of your ATV start to slide sideways, control can usually be regained (if there is place to do so) by steering in the direction of the slide. Applying the brakes or accelerating is not recommended until you have corrected the slide.

With practice, over a period of time, skill at controlled sliding can be improved. The terrain should be chosen carefully before attempting such maneuvers, since both stability and control are reduced. Bear in mind that sliding maneuvers should always be avoided on extremely slippery surfaces such as ice, since all control may be lost.

What to do if

This section is designed to be a reference guide only. Make sure to read each section on riding techniques completely.

What to do

- If your ATV doesn't turn when you want it to: Bring the ATV to a stop and practice the turning maneuvers again. Be sure you are positioning your weight on the footboard to the outside of the turn. Put your weight over the front wheels for better control.
- If your ATV begins to tip while turning: Lean more into the turn to regain balance. If necessary, gradually release the throttle and/or steer to the outside of the turn.
- If your ATV can't make it up a hill you are trying to climb: Turn the ATV around if you still have forward. If not, stop, dismount on the uphill side of the ATV and physically turn the ATV around. If the ATV starts to slip backwards DO NOT USE THE REAR BRAKE-the ATV may tip over on top of you. Dismount the ATV on the uphill side.
- If your ATV is crossing a sloping surface: Be sure to ride with your weight positioned towards the uphill side of the ATV to keep proper balance. If the ATV starts to tip, steer down the hill (if there are no obstacles in your way) to get balance again. If you discover that the ATV is going to tip over, dismount on the uphill side.
- If your ATV meets shallow water: Ride slowly and carefully through slow moving water, watching for obstacles. Be sure to let water drain from the ATV and CHECK YOUR BRAKES FOR PROPER OPERATION when you come out of the water. Do not continue to ride your ATV until you have regained adequate braking ability.
- If your ATV starts to slide sideways:
Steer in the direction of the slide if you have the place. Applying the brakes or accelerating is not recommended until you have corrected the slide

PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic check, adjustment and lubrication will keep your machine in the securest and most efficient condition possible. Security is an obligation of the machine owner. The most important points of machine inspection, adjustment and lubrication are explained on the following pages.

Owner's manual and tool kit

You are advised to put this owner's manual and low-pressure tire gauge in the vinyl bag and always carry them along with the owner's tool kit.

The service information included in this manual is designed to provide you, the owner, with the essential information for completing your own preventive maintenance and minor repairs. The tools provided in the Owner's tool kit are enough for this purpose, except that a torque wrench is also necessary to correctly tighten nuts and bolts.

Periodic maintenance chart for the emission control system

NOTE:

- For ATVs not equipped with an odometer or an hour meter, follow the month maintenance intervals.
 - For ATVs equipped with an odometer or an hour meter, follow the km (mi) or hour's maintenance intervals. However, keep in mind that if the ATV isn't used for a long period of time, the month maintenance intervals should be followed.
 - Items marked with an asterisk should be performed by a dealer as they require special tools, data and technical skills.
-

NO.	ITEM	CHECK OR MAINTENANCE JOB		Initial			Every	
			km (mi)	1000 (600)	4000 (2500)	7000 (4400)	10000 (6300)	13000 (8200)
1	*	Fuel Line	Check fuel hoses for cracks or other damage, and replace if necessary.			I	I	I
2		Spark Plug	Check condition and clean, re-gap, or replace if necessary.	I	I	I	I	I
3	*	Valves	Check valve clearance and adjust if necessary.	I		I	I	I
4	*	Crankcase breather system	Check breather hose for cracks or other damage and replace if necessary.			I	I	I
5	*	Exhaust system	- Check for leakage and replace gasket(s) if necessary. - Check for looseness and tighten all screw clamps and joints if necessary.			I	I	I
6		Spark arrester	Clean.			C	C	C

General maintenance and lubrication chart

NO.	ITEM	CHECK OR MAINTENANCE JOB		Initial			Every	
			km (mi)	1000 (600)	4000 (2500)	7000 (4400)	10000 (6300)	13000 (8200)
1		Air filter element	• Clean and replace if necessary.	Every 20–40 hours (more often in wet or dusty areas)				
2	*	Front brake	• Check operation and correct if necessary. • Check fluid level and ATV for fluid leakage, and correct if necessary.	I	I	I	I	I
			• Replace brake pads.	Whenever worn to the limit				
3	*	Rear brake	• Check operation and correct if necessary. • Check brake lever and pedal free play, and adjust if necessary.	I	I	I	I	I
			• Replace brake pads.	Whenever worn to the limit				
4	*	Brake hoses	• Check for cracks or other damage, and replace if necessary.	Every 4 years				
5	*	Brake fluid	• Change	Every 2 years				

NO.	ITEM	CHECK OR MAINTENANCE JOB		Initial			Every	
			km (mi)	1000 (600)	4000 (2500)	7000 (4400)	10000 (6300)	13000 (8200)
6	*	Wheels	Check runout and for damage, and replace if necessary.	I		I	I	I
7	*	Tires	- Check tread depth and for damage, and replace if necessary. - Check air pressure and balance, and correct if necessary.	I		I	I	I
8	*	Wheel hub bearings	Check for looseness or damage, and replace if necessary.	I		I	I	I
9	*	V-belt	Check for wear, cracks or other damage, and replace if necessary.	I		I	I	I
10	*	Chassis fasteners	Make sure that all nuts, bolts, and screws are properly tightened.	I	I	I	I	I
11	*	Shock absorber assemblies	- Check operation and correct if necessary. - Check for oil leakage and replace if necessary.	I	I	I	I	I
12	*	Steering shaft	Lubricate with lithium-soap-based grease.			L	L	L

NO.	ITEM	CHECK OR MAINTENANCE JOB		Initial			Every	
			km (mi)	1000 (600)	4000 (2500)	7000 (4400)	10000 (6300)	13000 (8200)
13	*	Steering system	• Check if the operation is loose or damaged, and repair or replace it in time • Check toe-in and adjust if necessary.	I	I	I	I	I
14		Engine oil	• Change. • Check ATV for oil leakage, and correct if necessary.	R		R	R	R
15		Transmission case oil	• Check ATV for oil leakage, and correct if necessary. • Change if necessary.	R		I	I	R
16	*	Engine oil strainer	• Clean.	R		R	R	R
17	*	Final gear oil	• Check ATV for oil leakage. Correct if necessary.	R		I	I	R
18	*	Cooling system	• .Check coolant level and ATV for coolant leakage, and correct if necessary.	I	I	I	I	I
			• Replace coolant	Every 2 years				

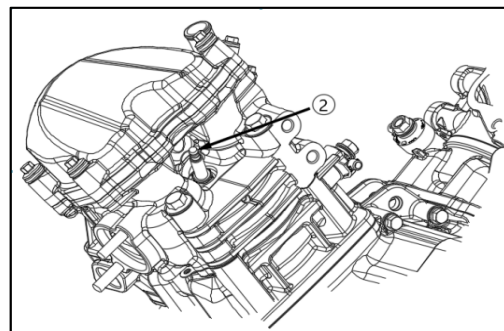
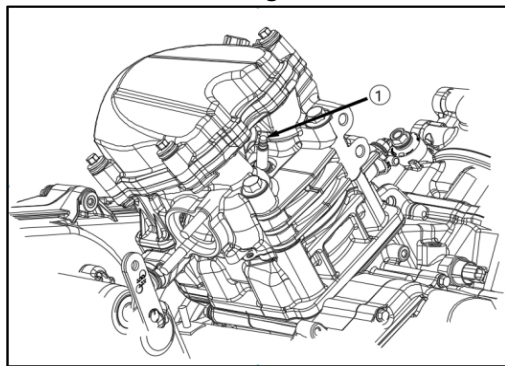
NO.	ITEM	CHECK OR MAINTENANCE JOB		Initial			Every	
			km (mi)	1000 (600)	4000 (2500)	7000 (4400)	10000 (6300)	13000 (8200)
19	*	Moving parts and cables			L	L	L	L
20	*	Drive select lever safety system cable				I	I	I
21	*	Throttle lever housing and cable		I	I/L	I/L	I/L	I/L
22	*	Front and rear brake switches		I	I	I	I	I
23	*	Lights and switches		I	I	I	I	I

NOTE:

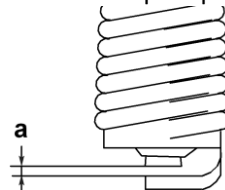
-
- I: Inspection C:Clean R:Replace A:Adjust L:Lubricate
 - Some maintenance need more frequent service in wet, sandy, muddy, or dusty areas.
 - Hydraulic brake service:
 - Regularly check and, if necessary, correct the brake fluid level.
 - Every two years replace the internal components of the brake master cylinder and Calipers, and change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged.
-

Check the spark plug

The spark plug is an important engine component, which is easy to check. Since heat and deposits will cause any spark plug to slowly erode, the spark plug should be removed and checked in accordance with the periodic maintenance chart. In addition, the condition of the spark plug can reveal the condition of the engine.



① Rear Spark Plug ② Front Spark Plug
To remove the spark plug



(a) Spark plug gap 1.

Spark plug gap:
0.8~1.0 mm (0.031~0.039 in)

1. Remove the spark plug cap.
2. Remove the spark plug with the spark plug wrench

To check the spark plug

1. Check that the porcelain insulator around the center electrode of the spark plug is a medium-to-light tan (the ideal color when the ATV is ridden normally).
2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and replace it if necessary.
3. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.

WARNING

HAZARD

Hot exhaust pipe.

WHAT CAN HAPPEN

Can burn your hands.

HOW TO AVOID THE HAZARD

Check the exhaust pipe first and, if hot, wait until it gets cold.

NOTE

If the spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a dealer check the ATV.

To install the spark plug

1. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
2. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.
3. Install the spark plug cap
4. Install the panels

Tightening torque:

Park plug:

12.5 Nm (1.25 m·kgf, 9.1 ft·lbf)

NOTICE

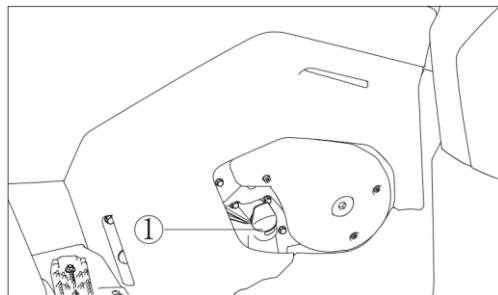
If a torque wrench is not available when installing the spark plug, a good estimate of the correct torque is 1/4-1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

Engine Oil and oil filter cartridge

The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance chart.

To check the engine oil level

1. Park the ATV on a level surface.
2. Check the engine oil level on a cold engine.



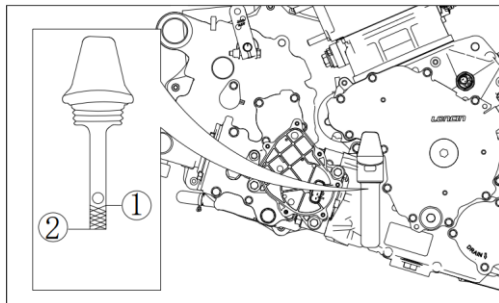
① Engine Oil Dipstick

NOTE

If an engine was started before checking the oil level, warm up the engine, and then wait at least 10 minutes until the oil settles for an accurate reading

3. Remove the engine oil dipstick, and then wipe it off with a clean rag.
4. Insert the dipstick into the filler hole (without screwing it in), and then remove it again to check the oil level.
5. If the engine oil is at or below the minimum level mark, add sufficient oil of

the recommender type to raise it to the correct level



① Maximum Level Mark

② Minimum Level Mark

NOTE

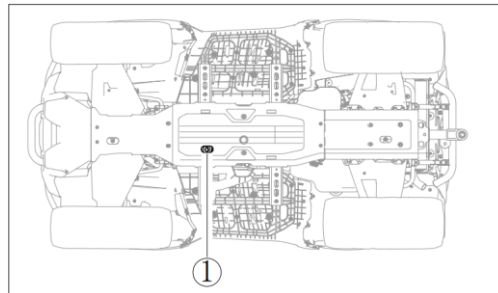
If the engine is run without oil, it will be severely damaged.

1. Insert the dipstick completely into the oil filler hole.
2. Install the access cover by turning it clockwise.

Oil and/or Oil Filter Change

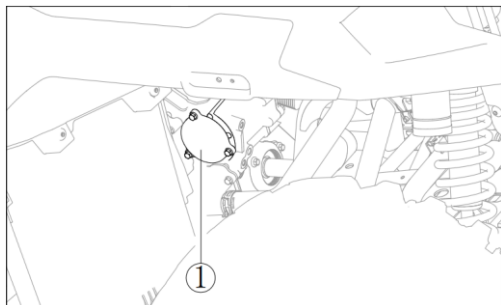
1. Place the ATV on a level surface.

2. Start the engine, warm it up for several minutes, and then turn it off.
3. Remove the access cover by turning it counter clockwise.
4. Place an oil pan under the engine to collect the used oil.
5. Remove the engine oil drain bolt to drain the oil from the crankcase.



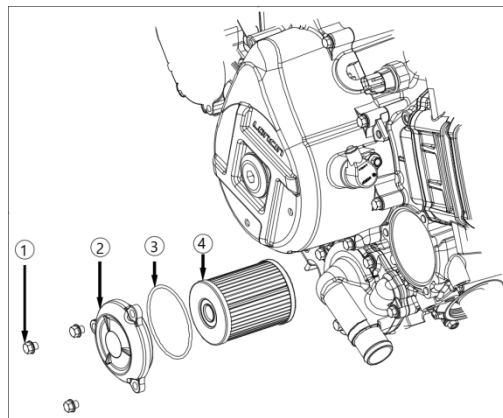
① Engine oil drain bolt.

6. Remove panels
7. Remove the oil filter cartridge



① Oil filter cartridge

8. Apply a thin coat of engine oil to the O-ring of the new oil filter cartridge.
9. Install the new oil filter cartridge, and tighten it to the specified torque with a torque wrench
10. Install panels.



- ① Oil filter screw
- ② Oil filter cover
- ③ O-ring
- ④ Oil filter

11. Install the engine oil drain bolt, and then tighten it to the specified torque.

Engine oil drain bolt	30N·m(3.0kgf·m,22.5ft·lb)
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12. Add the specified amount of the recommended engine oil, and then

- install and tighten the engine oil filler cap.
13. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
 14. Turn the engine off, wait at least ten minutes, and then check the oil level and correct it if necessary.
 15. Install panel

NOTE
Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down.

Engine oil

Viscosity: SAE 5W-40 Capacity: 2.4L(2.54 US qt) (when engine is completely dry)

Recommended engine oil

Although 5W-40 engine oil is the recommended oil for most conditions, the oil viscosity may need to be changed to accommodate atmospheric conditions in your riding area.

Recommended engine oil	
General purpose	SAE 5W40
Cold temperature	SAE 0W40

Gearbox Oil

Gearbox Oil Level Verification

NOTE
Check level and refill if necessary. Do not overfill. Operating the gearbox with an improper level may severely damage gearbox. Wipe off any spillage.

- 1.Place the vehicle on a level surface.
- 2.Select NEUTRAL position.
- 3.Apply the parking brake.

NOTE
Check the gearbox oil level when engine is cold and not running.

- 4.Remove the gearbox oil level plug.
- 5.The oil should be level with the bottom
- 6.Refill as required until gearbox oil level flows through oil level hole.

Recommended Gearbox Oil

Type: SAE 80W90 GL-5

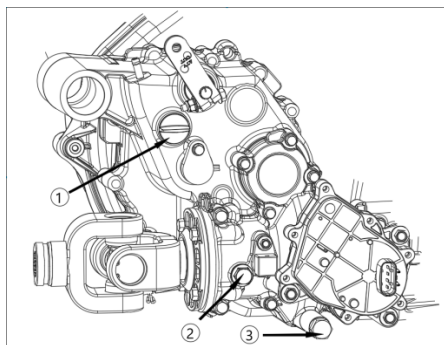
Capacity: 0.4L(0.42 US qt)

NOTICE : Do not use another types of oil when servicing. Do not mix with other types of oil.

Gearbox Oil Change

NOTE
When replacing the gearbox oil, it is recommended to clean the vehicle speed sensor (VSS) at the same time.

- 1.Place the vehicle on a level surface.
- 2.Clean the drain plug area.
- 3.Clean the oil level plug area.
- 4.Under the vehicle, place a drain pan underneath the oil drain plug area.
- 5.Remove the oil level plug.



① Oil filler plug.

② Oil level plug

③ Oil drain plug

6.Remove the drain plug.

7.Let oil completely drain from gearbox.

Install the drain plug and tighten to specification.

TIGHTENING TORQUE	
Drain plug	20N·m (2.0kgf·m,15 ft·lb)

8. Remove the oil filler plug.

9. Refill as required until gearbox oil level

flows through oil level hole.

NOTICE: Clean drain plug from any metallic particles prior to installation. Refill gearbox with recommended oil.

NOTICE: Do not overfill. Reinstall oil level plug.

10. Install the Oil level plug and tighten to specification.

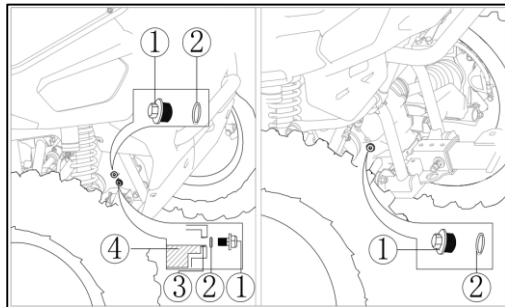
TIGHTENING TORQUE	
Oil level plug	20N·m (2.0kgf·m,15 ft·lb)

11. Install the oil filler plug.

12.Wipe off any spillage.

Final gear oil

The final gear case must be checked for oil leakage before each ride. If any leakage is found, have a dealer check and repair the ATV. In addition, the final gear oil level must be checked and the oil changed as follows at the intervals specified in the periodic maintenance and lubrications chart.



- ① Final gear oil filler bolt
- ② Gasket
- ③ Correct oil level
- ④ Final gear oil

To check the final gear oil level

1. Place the ATV on a level surface.

NOTE

The final gear oil level must be checked on a cold engine.

2. Remove the final gear oil filler bolt, and then check the oil level in the final gear case.

NOTE

Make sure the oil level reaches the oil level check hole.

3. If the oil is below the brim of the filler hole, add sufficient oil of the recommended type to raise it to the correct level.
4. Check the gaskets for damage, and replace them if necessary.
5. Install the oil level check bolt, the oil filler bolt and their gasket, and then tighten the bolts to the specified torques.

NOTE

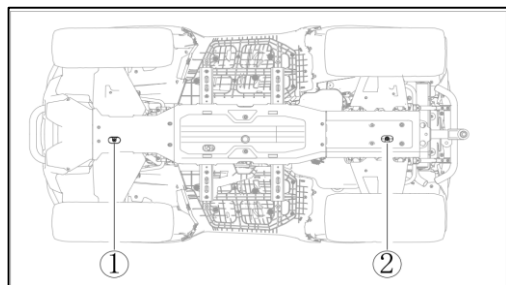
Be careful not to allow any dirt or foreign materials to enter the transmission cases.

Tightening Torque:

Final gear oil Level check bolt	20N·m (2.0kgf·m, 15 ft·lb)
Final gear oil filler bolt	20N·m (2.0kgf·m, 15 ft·lb)

To change the final gear oil

1. Place the ATV on a level surface.
2. Place an oil pan under the final gear case to collect the used oil.
3. Remove the final gear oil filler bolt and the final gear oil drain bolt to drain the oil from the final gear case.



① Front final gear oil drain bolt

② Rear final gear oil drain bolt

4. Install the drain bolt and its new gasket, and then tighten the bolt to the specified torque.

Tightening Torque:

Final gear oil drain bolt	20N·m (2.0kgf·m, 15 ft·lb)
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5. Refill with the recommended final gear oil to the brim of the check hole as shown

NOTE
Be sure no foreign material enters the final gear case.

6. Check the oil level check bolt gasket and the oil filler bolt gasket for damage, and replace them if necessary.
7. Install the oil level check bolt, the oil filler bolt and their gasket, and then tighten the bolts to the specified torque
8. Check the final gear case for oil leakage. If oil is leaking, check for the cause.

Final gear oil type:

SAE 80W90 GL-5

Quantity:

Front:0.40 L (0.42 US qt)

Rear:0.40 L (0.42 US qt)

Cooling System

Radiator and Cooling Fan:

Check and clean the screen and radiator fins for obstruction by insects or mud in accordance with the Periodic Maintenance Chart. In dusty areas, the radiator should be cleaned more frequently than the recommended interval.

WARNING

HAZARD

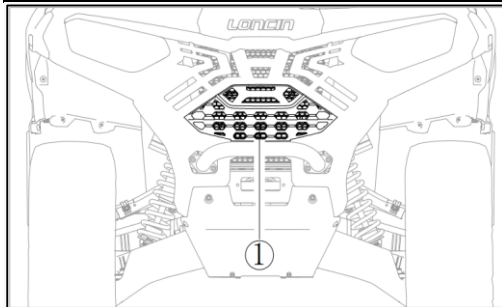
The cooling fan turns on automatically, even with the ignition switch off.

WHAT CAN HAPPEN

Can cause injury to your hands if you touch the turning fan.

HOW TO AVOID THE HAZARD

Keep your hands and clothing away from the fan blades at all times.

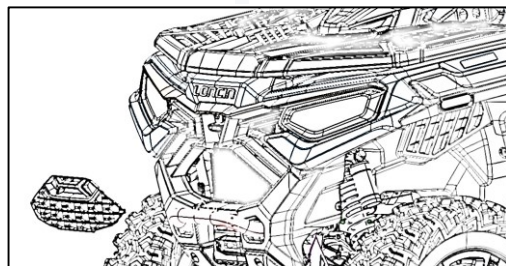


① Radiator Screen

1. Clean the grille, screen, and radiator fins of any obstructions with a stream of low-

pressure water.

2. If insects or mud cannot be completely removed, it should be cleaned by an authorized dealer.



The radiator screen has a quick release design, making it easy to remove and clean possible weeds and dirt inside.

NOTE

Using high-pressure water, as from a car wash facility, could damage the radiator fins and impair the radiator's effectiveness.

Do not obstruct or deflect airflow through the radiator by installing unauthorized accessories in front of the radiator or behind the cooling fan. Interference with the radiator airflow can lead to overheating and consequent engine damage.

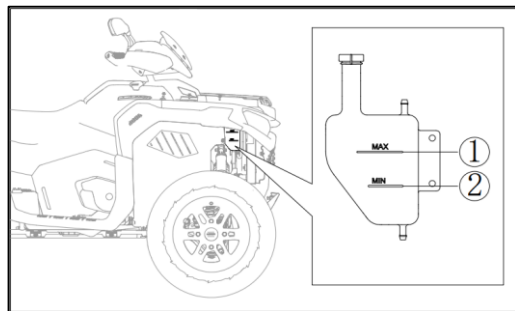
Coolant

The coolant level should be checked regularly. In addition, the coolant must be changed at the intervals specified in the periodic maintenance chart.

Coolant capacity

Coolant reservoir :0.3L (0.32 US qt)

Radiator(including all routes):3.2L (3.4 US qt)



① Maximum level mark

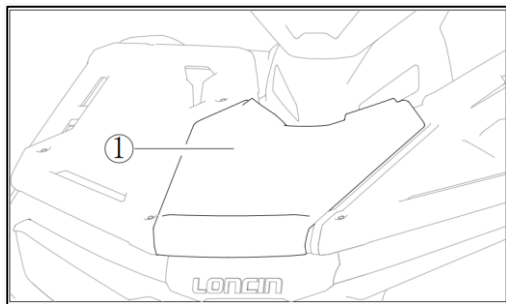
② Minimum level mark

Coolant Level Inspection

1. Situate the vehicle on level ground.
2. Check the coolant level through the coolant level gauge on the reserve tank. The coolant level should be between the "MAX" and "MIN" marks.

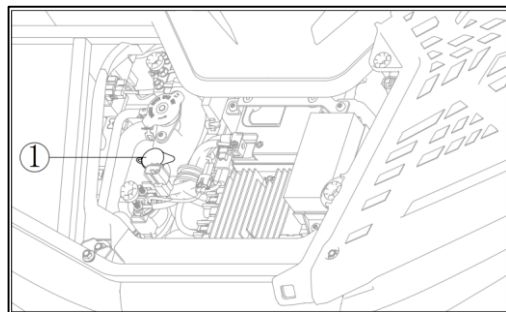
NOTE

Check the level when the engine is cold (room or atmospheric temperature).



① Front Luggage Carrier Cover

3. If the amount of coolant is insufficient, remove the front luggage carrier cover
4. Remove the coolant reservoir cap, and add coolant through the filler opening to the "MAX" mark. Then Install the cap.



① Coolant Reservoir Cap

NOTICE

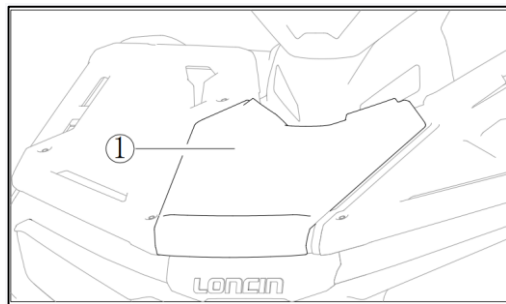
If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since they are harmful to the engine. If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion. If water has been added to the coolant,

To change the coolant

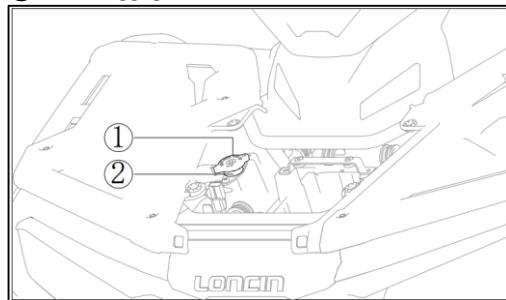
⚠ WARNING

Wait for the engine and radiator to cool before removing the radiator cap. You could be burned by hot fluid and steam blown out under pressure. Always place a thick rag over the cap when opening. Allow any remaining pressure to escape before completely removing the cap.

1. Park the ATV on a level surface.
2. Remove the front luggage carrier cover.
3. Remove the radiator cap.
4. Remove the lower right fender.
5. Place a container the engine, and then remove the coolant drain bolt and its gasket.



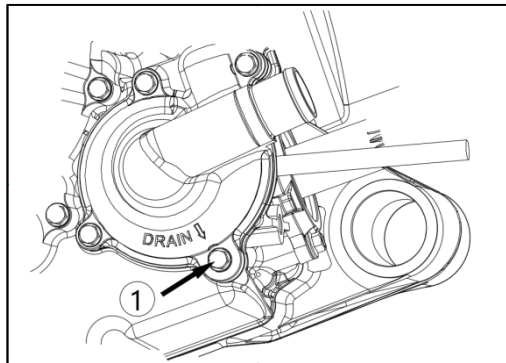
① Front Luggage Carrier Cover



① Radiator cap

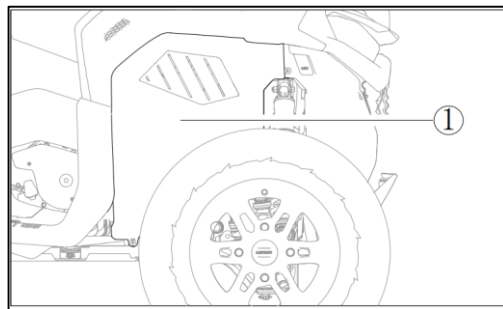
② Radiator tank

6. Place a container under the coolant reservoir to collect the used coolant.



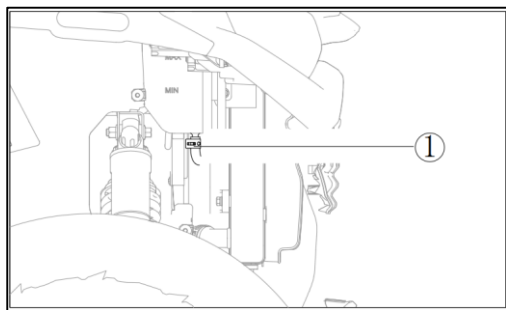
① Water Pump Air Bleed Bolt (Engine bottom)

7. Remove the coolant reservoir cap.
8. Disconnect the coolant reservoir hose on the coolant reservoir side, and then drain the coolant from the coolant reservoir.



① Lower Right Fender

9. After draining the coolant, thoroughly flush the cooling system with clean tap water.
10. Install the coolant drain bolt and its new gasket, and then tighten the bolt to the specified torque.
11. Connect the coolant reservoir hose.
12. Pour the recommended coolant into the radiator until it is full.



① Coolant Reservoir Hose

13. Pour the recommended coolant into the reservoir to the maximum level mark, and then install the reservoir cap.
14. Loosen the water pump air bleed bolt, without removing it, to allow all of the air to escape from the air bleed bolt hole.
15. When coolant begins to flow out of the bolt hole, tighten the water pump air bleed bolt to the specified torque.
16. Remove panel
17. Loosen the cylinder head air bleed bolt, without removing it, to allow all of the air to escape from the air bleed bolt hole.
18. When coolant begins to flow out of the bolt hole, tighten the cylinder head air bleed bolt to the specified torque.
19. Start the engine and let it idle for ten minutes.
20. Rev the engine five times.
21. Pour additional coolant into the radiator until it is full.
22. Stop the engine and allow it to cool if the coolant level has dropped after the engine has cooled, add sufficient coolant until it reaches the top of the radiator, and then install the radiator cap.
23. Start the engine, and then check for coolant leakage.
24. Install the V-belt cooling duct, and then tighten the clamp screw.
25. Install the footboard by installing the bolts and nuts, and then tighten them to the specified torque.

26. Install the panels.

Cleaning the air filter element

The air filter element should be cleaned at the intervals specified in the periodic maintenance chart. Clean or replace the air filter element more frequently if you ride in unusually wet or dusty areas.

WARNING

HAZARD

A clogged air filter.

WHAT CAN HAPPEN

May allow dirt and dust to enter the throttle body and stick the throttle open. This could cause an accident.

HOW TO AVOID THE HAZARD

Clean the air filter regularly and according to the instructions in this section.

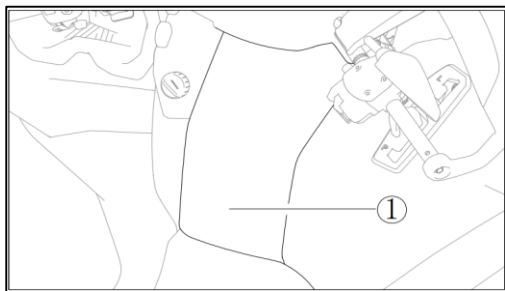
NOTE

A clogged air filter may allow dirt and dust to enter the engine causing excessive wear and possibly engine damage.

The air filter element must be cleaned in accordance with the Periodic Maintenance Chart. In dusty areas, the element should be cleaned more frequently than the recommended interval. After riding through rain or on muddy roads, the element should be cleaned immediately.

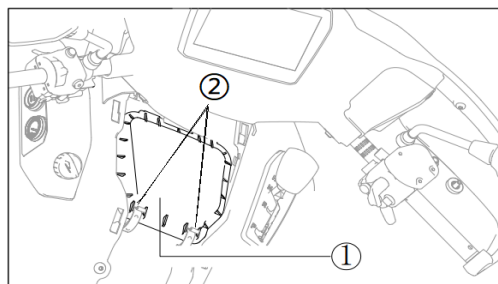
Element Cleaning

1. Park the ATV on a level surface.
2. Remove the seat. (see CHAPTER Five)
3. Remove the air filter cover.



① Air filter Cover

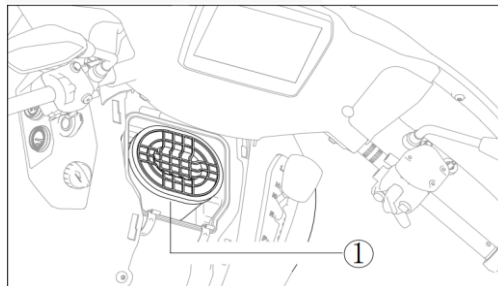
4. Remove the air filter case cover by unhooking the air filter case cover holders.
5. Pull the air filter element out of the air filter case.



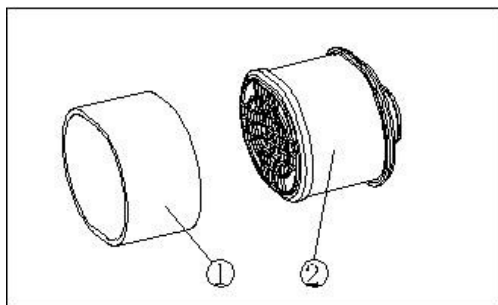
① Air filter case cover

② Air filter case cover holder

6. Pull off the air filter element lock plate, and then remove the sponge material from the air filter element frame.



① Air filter element



① Sponge material

② Air filter element frame

NOTE:

Check inside the intake tract and throttle for dirt. If dirt is present, clean the intake tract and carburetor thoroughly. You may also need to replace the air cleaner and seal the air cleaner housing and intake tract.

7. Wash the sponge material gently but thoroughly in solvent. **WARNING!** Always use parts cleaning solvent. Never use low flash-point solvents or gasoline because the engine could catch fire or explode.

8. Squeeze the excess solvent out of the sponge material and let it dry.

NOTICE: Do not twist the sponge material when squeezing it.

NOTE

Each time the air filter element maintenance is performed, check the air inlet of the cleaner case for obstructions. Check the air filter case rubber joint to the throttle body and the rubber joint manifold fittings for an air tight seal. Tighten all fittings securely to avoid the possibility of unfiltered air entering the engine.

9. Check the sponge material and replace it if damaged.

10. Apply quality foam air filter oil to the sponge material.

The sponge material should be wet but not dripping

11. Pull the sponge material over the air filter element frame, and then install the lock plate.

12. Insert the air filter element into the air

filter case, and then install the air filter case cover by hooking the holders onto the air filter case.

NOTICE

Make sure that the air filter element is properly seated in the air filter case. Never operate the engine with the air filter element removed. Doing so would allow unfiltered air to enter the engine, causing rapid engine wear and possible engine damage. Additionally, the fuel injection system would be affected resulting in poor engine performance and possible overheating.

13. Install the air filter cover.

14. Install the seat.

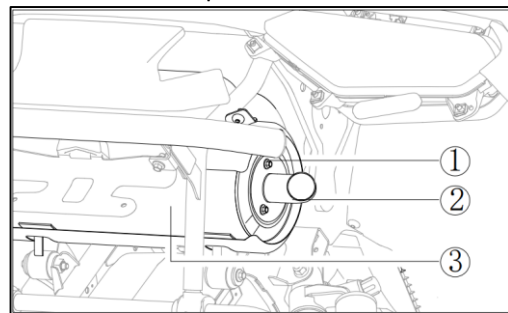
Valve clearance adjustment

The proper valve clearance changes with use, leading to incorrect fuel/air supply or engine noise. To prevent this, the

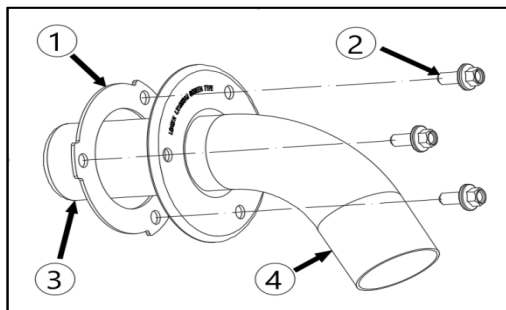
valve clearance must be adjusted periodically. This adjustment however, should be left to a professional service technician.

Spark arrester

This vehicle is equipped with a spark arrester approved for off-road use by the U.S. Forest Service. It must be properly maintained to ensure its efficiency. In accordance with the Periodic Maintenance Chart, clean the spark arrester.



① Bolt ② Muffler ③ Spark Arrester



① Gasket ② Tailpipe Bolt

③ Spark Arrester ④ Tailpipe

1. Remove the bolt from the muffler.
2. In an open area away from combustible materials, start the engine with the transmission in neutral.

⚠ WARNING

HAZARD

Cleaning the spark arrester near combustible materials.

WHAT CAN HAPPEN

Can cause a fire resulting in burns.

HOW TO AVOID THE HAZARD

Never run the engine with the spark arrester disassembled near combustible materials. Hot carbon particles are emitted during the cleaning procedure.

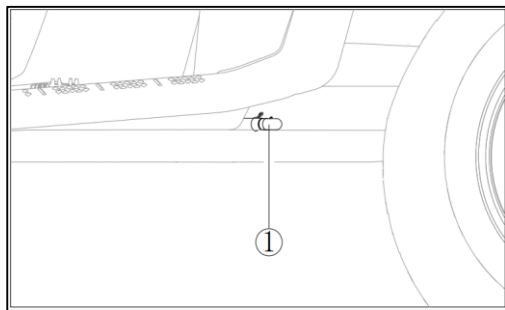
3. Raise and lower engine speed while tapping on the muffler with a rubber mallet until carbon particles are purged from the muffler. Stop the engine.
4. Install the spark arrester in place and tighten the spark arrester bolt to the specified torque.

Tightening Torque

Spark Arrester Bolt	11 N·m (1.1 kgf·m, 8.3 ft·lb)
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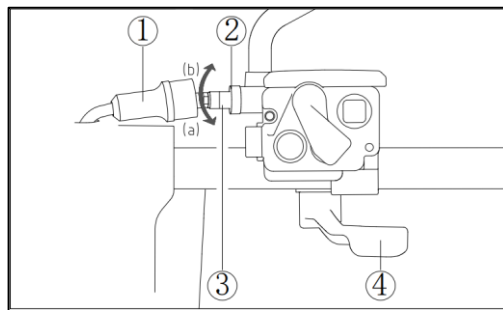
V-belt case drain plug

After riding in water deep enough to allow it to enter the V-belt case, remove the V-belt case drain plug to drain the water from the case.



① V-belt case drain plug

Adjusting the throttle lever free play



- ① Rubber cover
- ② Locknut
- ③ Throttle lever free play adjust bolt
- ④ Throttle lever free play

Periodically check the throttle lever free play and adjust if necessary.

1. Slide the rubber cover back.
2. Loosen the locknut
3. To increase the throttle lever free play, turn the throttle lever free play adjusting bolt in direction (a). to decrease the throttle lever free play, turn the adjusting bolt in direction(b).

4. Tighten the locknut.
5. Slide the rubber cover to its original position

Brakes

Replacement of brake components requires professional knowledge. Brake service should be performed by a LONCIN dealer. Disc and brake pad wear is automatically compensated for and has no effect on the brake levers and pedal action. There are no parts that require adjustment on the brake.

WARNING

Operating with improperly serviced or adjusted brakes could lead to a loss in braking ability and an accident.

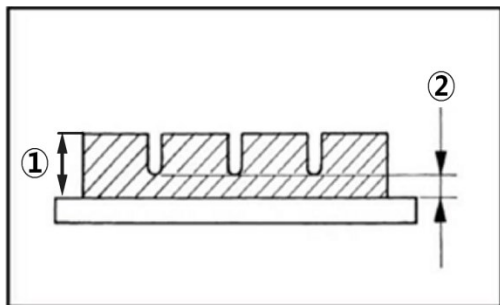
Checking the front and rear brake pads

The front and rear brake pads must be checked for wear at the intervals specified

in the periodic maintenance chart. Each brake pad is provided with a wear indicator groove, which allows you to check the brake pad wear without having to disassemble the brake.

Brake Wear Inspection

In accordance with the Periodic Maintenance Chart, inspect the brakes for wear. For each front disc brake caliper, if the thickness of either pad is less than 1 mm (0.04 in.), replace both pads in the caliper as a set. For the rear disc brake caliper, if the thickness of the pad is less than 1.5 mm (0.04 in.), replace the pad in the caliper. Pad wear inspection and pad replacement should be done by an authorized dealer.



- ① Lining Thickness
- ② 1.5 mm (0.04 in.)

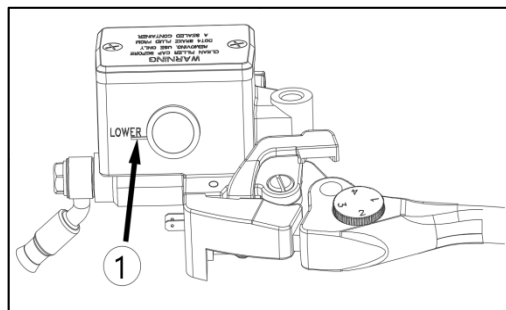
Checking the brake fluid level

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

Replenish the brake fluid if necessary.

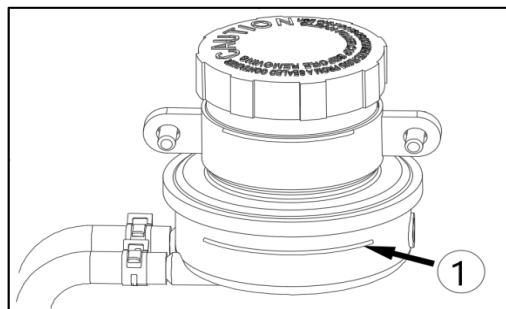
Front brake

Specified brake fluid	DOT 4
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- ① Minimum level mark

Rear brake



- ① Minimum level mark

NOTICE: Brake fluid may damage painted surfaces or plastic parts. Always clean up spilled fluid immediately.

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

Changing the Brake Fluid

In accordance with the Periodic Maintenance Chart, inspect the brake fluid level in the front and rear brake fluid reservoirs and change the brake fluid. The brake fluid should also be changed if it becomes contaminated with dirt or water.

Fluid Requirement

Use extra heavy-duty brake fluid only from a container marked DOT4.

WARNING

HAZARD

Contaminated brake fluid.

WHAT CAN HAPPEN

Can reduce braking performance or cause brake failure, resulting in an accident.

HOW TO AVOID THE HAZARD

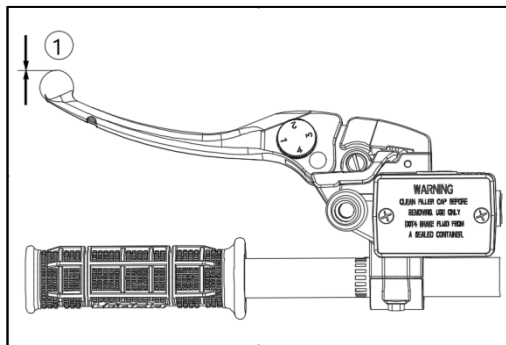
Do not use brake fluid from a container that has been left open or that has been unsealed for a long time. The fluid will absorb moisture and may be contaminated with dust and dirt.

NOTICE

Do not spill brake fluid onto any painted surface. It will damage the paint. If brake fluid is spilled, wash it off immediately with water.

Checking the front and rear brake lever free play

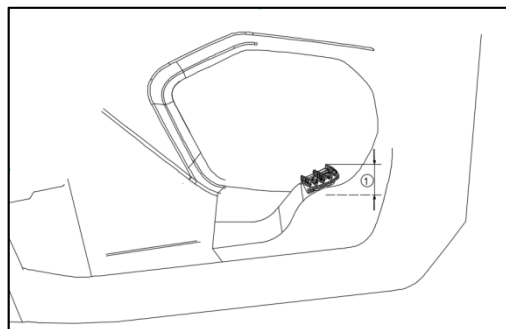
Front brake



① No brake level free play

There should be no free play at the brake lever end. If there is free play, have a LONCIN dealer inspect the brake system.

Adjusting the brake pedal free play



① brake level free play

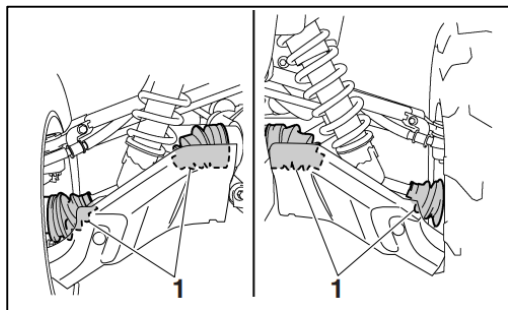
Brake pedal free play:

1.0-6.0 mm (0.04-0.24 in)

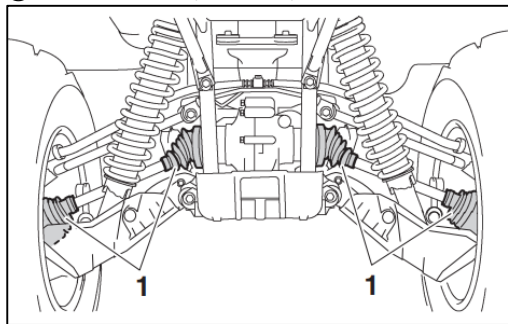
Periodically check the brake pedal free play and adjust if necessary.

Axle boots

The axle boots must be checked for damage at the intervals specified in the periodic maintenance chart. Check the axle boots for tears or damage.



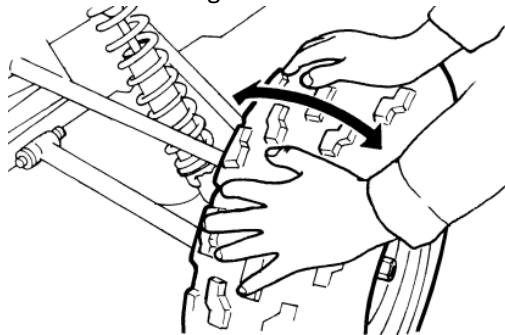
① Front axle boot (each side)



① Rear axle boot (each side)

Checking the wheel hub bearings

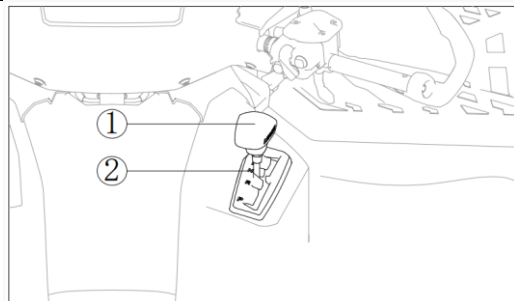
The front and rear wheel hub bearings must be checked at the intervals specified in the periodic maintenance chart. If there is play in a wheel hub or if a wheel does not turn smoothly, have a LONCIN dealer check the wheel hub bearings.



Shift Lever

NOTICE

Before shifting, you must stop the machine and return the throttle lever to its closed position until the engine speed to the specified idling speed. Otherwise, the transmission may be damaged.



① Shift Lever

② "N" position

1. Check operation of the lever before start the engine.

2. Make sure moving the shift lever into the "N" position of the shift guide.
3. Turn the ignition switch to "ON" and check the neutral indicator light goes on.

⚠ WARNING

HAZARD

Operating with improperly adjusted drive select lever.

HAZARDWHAT CAN HAPPEN

You may lose control of the gear shifting, which lead to accident.

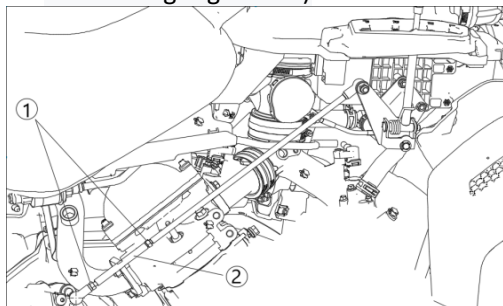
HOW TO AVOID THE HAZARD

Make sure moving the shift lever into the "N" position and neutral indicator light goes on before start the engine.

Shift Lever Adjustment

1. Turn the ignition switch is to ON and make sure the engine stop switch in the OFF "~~⊗~~" position.

2. Loosen the locknuts of rod. Shift the gear to neutral by moving the shift lever and/or turn the rod. (The neutral indicator light goes on.)



① Locknuts

② Rod

3. Provide standard tip/Philips screwdriver (tool kit) and pass the standard tip/Phillips screwdriver through the shift arm into the index hole at the transmission case cover.
4. Turn the rod clockwise or counterclockwise until the drive select lever into the "N" position of the shift

guide and tighten the locknuts.

5. After adjustment, start the engine and test ride the ATV to be sure the drive select lever is operating properly.

Belt Drive Transmission (CVT)

The vehicle is equipped with a belt-driven Continuously Variable Transmission (CVT). This automatic drive system, although simple to operate, does require periodic inspection since the drive belt wears with normal use.

Inspection should be done by an authorized dealer.

Periodic Drive Belt Inspection Requirements
Neglect, abuse, or failure to maintain the transmission can result in belt damage and failure.

Inspection of the transmission drive belt is required at least every 2 000 km (1 200 mi.) or year of use whichever comes first, since drive belts wear with normal use. More frequent inspection is necessary if the

vehicle is subjected to hard usage. If excessive belt slippage occurs, do not ride the vehicle until damaged components are repaired.

WARNING

HAZARD

Moving parts are exposed when the torque converter cover is removed.

WHAT CAN HAPPEN

Moving parts can cause severe bodily injuries and/or catch clothing and cause injury.

HOW TO AVOID THE HAZARD

Never operate the vehicle without the torque converter cover installed.

Causes of accelerated Belt Wear

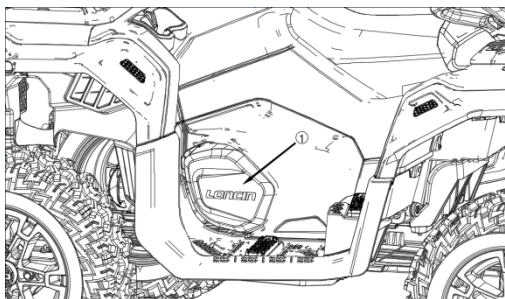
Avoid these hard usage conditions to obtain maximum belt life and prevent accelerated belt wear and deterioration.

1. Operating the vehicle in high range while climbing hills, carrying heavy loads, or pulling a trailer.

2. Exceeding maximum vehicle load or trailer weight.
3. Operating in mud or water deeper than recommended.
4. Operating in extremely dusty conditions.
5. Continued operation with excessive belt slippage.
6. Failure to apply the foot and hand brake controls while descending hills.
7. Indications of Excessive Belt Slippage

Excessive slippage will accelerate belt wear and lead to failure. Recognize these symptoms of excessive belt slippage. If excessive slippage occurs, do not continue to ride the vehicle until all damaged components are repaired.

1. Smell of burning rubber.
2. Visible white smoke.
3. Sluggish initial acceleration or loss of power.
4. Engine rpm is higher for the same vehicle speed.
5. Engine vibration.



① Belt Drive Transmission (CVT)

Cable inspection and lubrication

The operation and the condition of all control cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a dealer check or replace it.

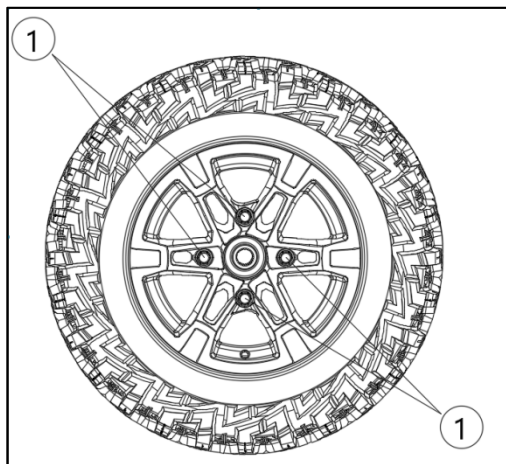
NOTICE

Corrosion can result when the cable sheaths become damaged, and cables can also become frayed or kinked, which could restrict the operation of controls and lead to an accident or injury.

Inspect cables frequently. Replace damaged cables.

Wheel removal

1. Park the ATV on a level surface.
2. Loosen the wheel nuts.



① Wheel nut

3. Elevate the ATV and place a suitable stand under the frame.
4. Remove the nuts from the wheel.
5. Remove the wheel.

Wheel installation

1. When installing the wheel, reverse the removal procedure.
2. Tighten the wheel bolts to the specified torques.

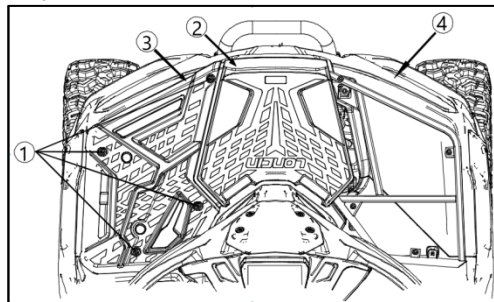
Tightening Torque:

Front wheel nut	80N·m (8.0kgf·m, 60 ft·lb)
Rear wheel nut	80N·m (8.0kgf·m, 60 ft·lb)

Battery

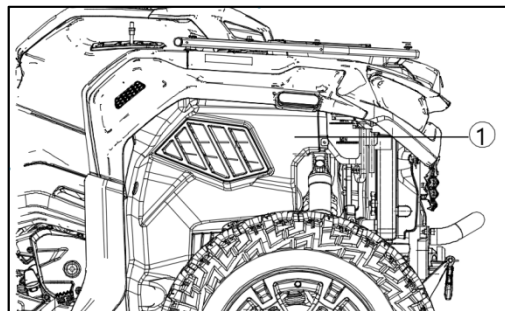
To remove the battery

1. Unscrew the 8 bolts around the cover plate and remove the 3 carrier cover plates



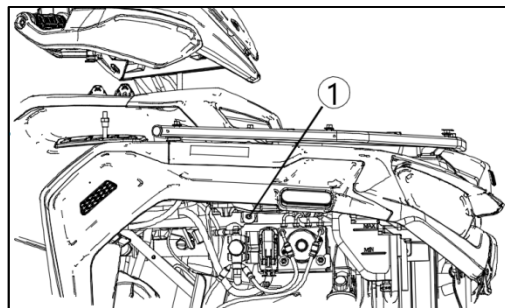
- ① Cover bolt
- ② Front shelf cover (middle)
- ③ Front shelf cover (left)
- ④ Front shelf cover (right)

2. Remove the bolts of the vehicle's side panels and remove the panels



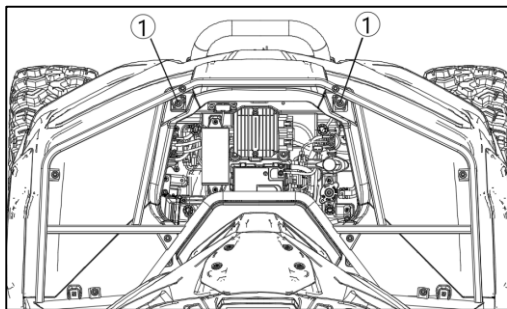
- ① Lower fender

3. Remove the bolts on the left and right sides of the carrier



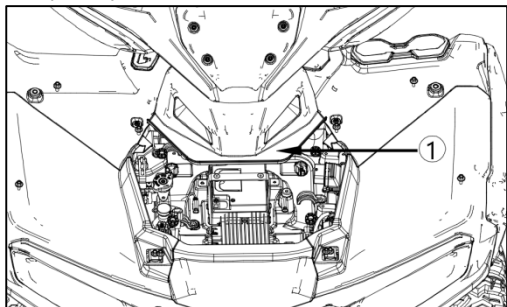
- ① Cover bolt

4. Remove the two bolts above the rack



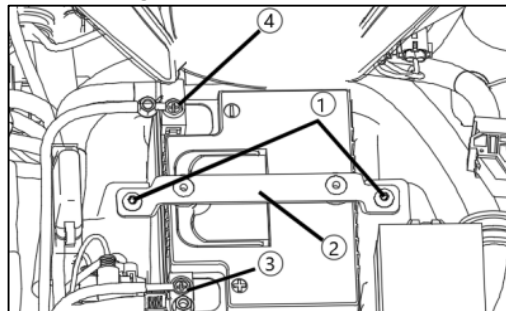
① Cover bolt

5. Remove the Center shield(removed quickly).



① Center shield

6. Remove the battery holding plate by removing the nuts.
7. Disconnect the negative battery lead first, then the positive battery lead by removing their bolt



① Nut

② Battery holding plate

③ Positive battery lead (red)

④ Negative battery lead (black)

8. Pull the battery out of its compartment

NOTICE

Never attempt to open the battery or remove the battery cell seals, as this would permanently damage the battery..

To charge the battery

1. Confirm the recommended charging rate as specified on the battery itself.
2. Select a suitable charger and follow the manufacturer's instructions.

NOTICE

To charge a VRLA (valve-regulated lead-acid) battery, a special battery charger is required. Using a conventional battery charger will damage the battery.

Fuse replacement

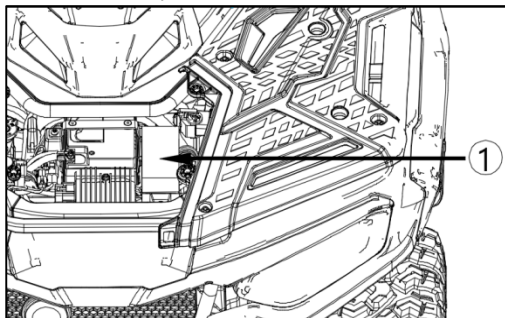
If an electrical problem is suspected, check the fuse and replace it if necessary as follows.

NOTICE

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

1. Turn off all electrical systems.
2. Remove the front shelf cover (middle) and you can see the fuse box.
3. Remove the blown fuse, and then install a new fuse of the specified amperage.
4. Turn on the main switch and start the engine.

5. If the fuse immediately blows again, have a LONCIN dealer check the vehicle.
6. Install the panel.



① Fuse box

WARNING

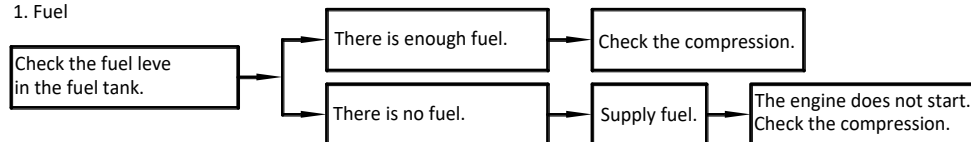
Always use a fuse of the specified rating, and never use a substitute object in place of the proper fuse. An improper fuse or a substitute object can cause damage to the electrical system, which could lead to a fire.

Fuse location diagram

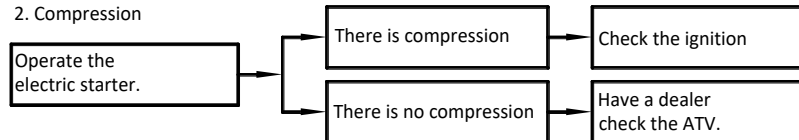
Oxygen Sensor 7.5A				Light 20A	Signal 15A	Control 15A	2/4 Drive 15A	DC jack 15A	USB jack 5A	
Start auxiliary Relay 30A	Fan Relay 30A		ECU Relay 30A		Fuel Pump Relay 30A				Main Relay 40A	
EPS 50A Spare 5A Spare 15A Spare 20A Radiator Fan 20A ECU 20A Fuel Pump 5A Ignition Lock 5A										

Troubleshooting charts

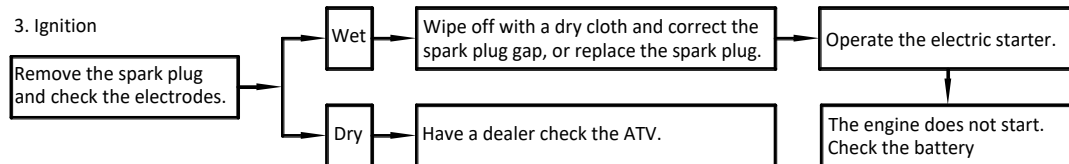
1. Fuel



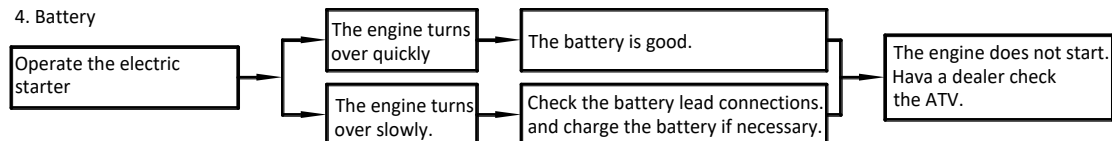
2. Compression



3. Ignition



4. Battery



CLEANING AND STORAGE

Cleaning

Frequent, thorough cleaning of your machine will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the machine.
 - a. Block off the end of the exhaust pipe to prevent water entry. A plastic bag and strong rubber band may be used.
 - b. Assure the spark plug and all filler caps are correctly installed.
2. If the engine case is extremely greasy, apply degreaser with a paintbrush. Do not apply degreaser to the wheel axles.
3. Rinse the dirt and degreaser off with a garden hose. Use only sufficient pressure to do the job.
4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the machine off immediately with clean water and dry all surfaces with a chamois, clean towel or cloth.
6. Clean the seat with vinyl upholstery cleaner to keep the cover pliable and glossy.
7. Automotive type wax may be applied to all painted and chrome plated surfaces. Avoid

combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine and let it idle for several minutes.

8. If the headlight lens has fogged up, start the engine and turn on the headlight to help re-move the moisture.

Spark Arrester Cleaning Process

1. Before starting the cleaning:

- a) Place the ATV in an open area and make sure there is no flammable material around;
- b) Do not dismantle the muffler before it cools down;
- c) Do not start the engine after you dismantle the rear part of the muffler;
- d) Do wear the eye-protector and make sure there is no person at the back of the ATV.
- e) Check whether the gasket is damaged. If it is damaged, replace it.

2. Cleaning process:

- a) Dismantle the rear pipe which connected to the muffler by bolt;
- b) Take the rear pipe from the muffler;
- c) Knock the pipe by a soft hammer gently and then brush the inner wall of the pipe to clean the carbon deposit;
- d) Assemble the rear pipe back to the muffler;

e) Fasten it to the muffler by the bolts.

3. Maintenance period:

Do a cleaning of the pipe either every 2000km (1200miles) or every 6 months, whichever one arrives first.

Storage

Long term storage (60 days or more) of your machine will require some protective procedures to guard against deterioration. After completely cleaning the machine, prepare for storage as follows:

1. Fill the fuel tank with fresh fuel
2. Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug hole and reinstall the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder wall with oil.
3. Lubricate all control cables.
4. Block up the frame to raise all wheels off the ground.
5. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
6. If storing in a damp or salty atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.
7. Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not

store the battery in an extremely warm or cold place (less than 0°C (30°F) or more than 30°C (90°F)).

Short-term

Always store your ATV in a cool, dry place and, if necessary, protect it against dust with a porous cover. NOTICE: Storing the ATV in a poorly ventilated room or covering it with a tarp while it is still wet, will allow water and humidity to seep in and cause rust. To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.

Transporting the ATV

- 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 into any position except the parking position, and block the front and rear wheels to prevent the vehicle from moving.
 - Secure both the front and rear of the vehicle frame to prevent the vehicle from sliding or moving during transport
- Never transport the ATV with the gear selector in Park position. Transmission damage will result.

SPECIFICATION

Model	Xwolf 1000
Dimension:	
Overall length	2,368mm (93.2 in)
Overall width	1266mm (49.8 in)
Overall height(22in Tires)	1482mm (58.3 in)
Seat height(27in Tires)	970mm (35.0 in)
Wheel base	1,500mm (38.2 in)
Min. ground clearance	305mm (12 in)
Minimum turning radius	3,700mm (145.7 in)
Maximum mass (es)	785kg(1371 lb)
Engine:	
Type	LX2V91MY
Cylinder arrangement	V-inclined Two cylinder
Displacement	976cm ³
Bore × Stroke	91×75 mm
Compression ratio	10.9 : 1
Starting system	Electric starter
Lubrication systems:	Mixed lubrication

Model	Xwolf 1000
Engine Oil Capacity for crankcase	2.4L
Engine Oil Capacity for transmission	0.4L
Fuel Capacity	33L
Starting	Electric
Transmission	CVT
Front Suspension	Double wishbone
Rear Suspension	Double wishbone
Front/Rear Brakes	Disc brake
Parking Brake	Mechanical Lock
Front Tires	27×9R14 or 29×9R14
Rear Tires	27×11R14 or 29×11R14
pressure	Tire pressure is shown on the tire
Max. Load Capacity	300kg
Battery(Green)	12V-32Ah

Maintenance record

Copies of work orders and/or receipts for parts you purchase and install will be required to document maintenance done in accordance with the warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

MAINTENANCEINTERVAL			DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
month	km(mi)	hours				
1	320(200)	20				
3	1300(800)	80				
6	2500(1600)	160				
12	5000(3200)	320				
18	7500(4800)	480				
24	10000(6400)	640				
30	12500(8000)	800				
36	15000(9600)	960				
42	17500(11200)	1120				
48	20000(12800)	1280				
54	22500(14400)	1440				
60	25000(16000)	1600				

⚠ WARNING

Improper ATV use can result in SEVERE INJURY or DEATH



ALWAYS USE
AN APPROVED
HELMET AND
PROTECTIVE
GEAR



NEVER USE
ON PUBLIC
ROADS



NEVER CARRY
PASSENGERS



NEVER USE
WITH DRUGS
OR ALCOHOL

NEVER operate:

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

ALWAYS:

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

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

370310828

TYPE I

⚠ WARNING

Improper ATV use can result in SEVERE INJURY or DEATH



ALWAYS USE
AN APPROVED
HELMET AND
PROTECTIVE
GEAR



NEVER USE
ON PUBLIC
ROADS



NEVER CARRY
MORE THAN 1
PASSENGERS



NEVER USE
WITH DRUGS
OR ALCOHOL

NEVER operate:

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

ALWAYS:

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

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

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TYPE II