

493cc ATV Orange/Camo



⚠ WARNING



Please read and understand the product manual completely before assembly

- Check the parts list to make sure all parts are received.
- Wear safety goggles or other protective gear while assembling.
- Do not return products to dealers, who are not equipped to handle returns.

Missing parts or have questions on assembly?

Email: cs@tmgindustrial.com

Or visit: tmgindustrial.com



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1. Introduction

Congratulations on the purchase of your ALL Terrain Vehicle (ATV). We take pride in offering you this product engineered and manufactured to the highest performance and quality standards. We are sure that you will enjoy superior levels of performance, reliability, riding comfort, and safety.

This manual is provided to help the owner and operators of this ATV become familiar with the operating characteristics, and the many features offered on the ATV. The manual also covers information on the care and maintenance of your ATV.

Please read this manual carefully. The information contained in this Owner's Manual, the Warning Labels supplied with this product will help you to understand the safe use and maintenance of your ATV. Make sure that you understand and follow all Warnings and Instructions in this material.

If you did not receive any of the material listed above, please call your dealer and request to have them sent to you.

Important Safety Notice

Never make any modifications to the engine, drive system mechanical or electrical systems of your ATV. Never install aftermarket parts or accessories intended to increase the speed or power of your ATV.

Failure to follow these warnings increases the possibility of accidents leading to DEATH or SERIOUS INJURY!

Additionally, failure to follow these requirements will void the Warranty on your ATV.

Note

The addition and use of certain accessories including, (but not limited to) mowers, blades, sprayers, winches and windshields will change the handling characteristics and the performance of your ATV

Practice Responsible ATV Riding

Make sure that you understand and follow all local, state/province, and federal/national riding laws and requirements.

Remember: Respect your vehicle, respect the environment and respect the property of others. You are responsible for your safety and the safety of others around you when you ride!

ATVs present hazards when in use.

An ATV handles differently from other vehicles including motorcycles 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.



WARNING

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized ATV dealer to find out about the training courses nearest you.
- Never allow anyone who is not an adult to operate this ATV.
- Never permit a guest to operate this ATV unless the guest has read this manual and all product labels, and has completed a certified training course.
- Always avoid operating an ATV on any paved surfaces, including sidewalks, driveways, parking lots and streets.
- Never operate an ATV without wearing an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at excessive speeds. Always travel at a speed which is proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheelies, jumps or other stunts.
- 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.
- Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.
- Never operate on excessively rough, slippery or loose terrain.
- 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.
- Always have the ATV checked by an authorized dealer if it has been involved in an accident.
- Never operate 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 throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.

- 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 which would cause the vehicle 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 surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to either side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Avoid operating the ATV through deep or fast flowing water. Avoid water deeper than the recommended maximum limit. Travel slowly, balance your weight carefully and avoid sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary apply them lightly several times to let friction dry out the pads.
- Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories
- 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.

2. Understanding Warnings

Attention:

This is an adult vehicle only: not a toy. Read and understand warnings and owner's manual before operation



CAUTION

Know your vehicle before you begin riding!

Read this manual thoroughly referring to the various areas which are being discussed on your machine. Operating this vehicle carries with it responsibilities for your personal safety, the safety of others, and the protection of our environment.

NOTE

Illustrations used in this manual are for general representation only. Your model may differ.

Safety Alert

Warnings identify special instructions or procedures which, if not correctly followed, could result in personal injury or loss of life.

Read all warnings in this manual carefully. Follow their instructions to remain safe.

The following precautionary signal words are used throughout this manual to convey the following messages:

Safety Symbol Guide

These symbols in this manual mark different hazard levels for your ATV:

Safety Alert Icon



Any page or machine label with this icon signals risks of bodily injury.

WARNING

Serious injury or fatal danger.

CAUTION

Minor injury or ATV component damage.

CAUTION

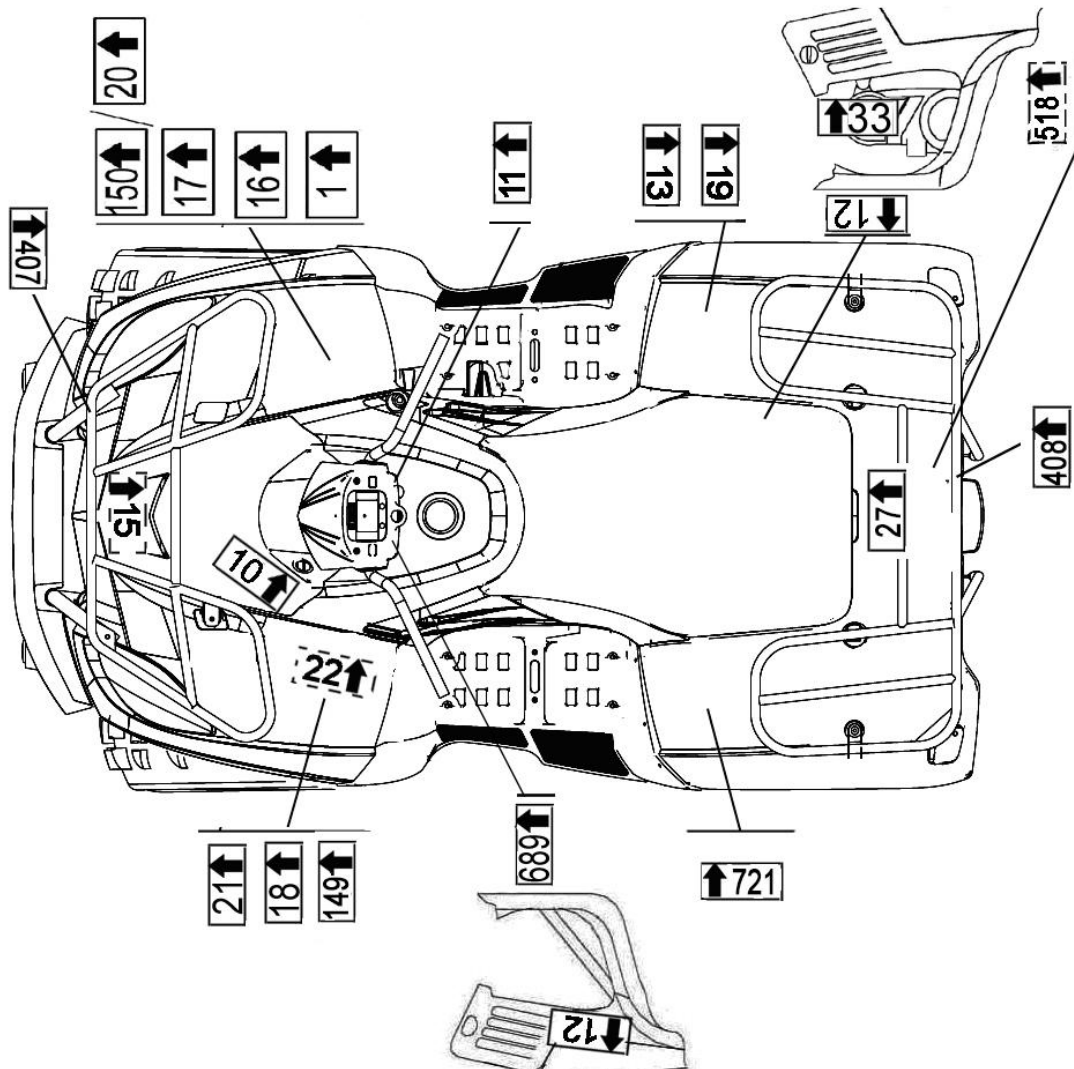
Equipment damage with no personal harm risk.

NOTE: Marks vital operation tips and key details.

3. Safety Warning

Attention

There is a risk of fire from driving the vehicle on the ground where grass has dried up or parking the vehicle on such surface while the engine is hot.



NOTE

Warning decals have been placed on the vehicle for your protection. Read and follow the instructions on each decal carefully. In the event any decal becomes illegible or comes off, contact your dealer for a replacement.

Attention

There is a fire hazard if you drive or park the ATV on ground covered with dry grass while the engine is still hot.

WARNING

Do not remove the radiator cap when the engine and radiator are hot. Scalding hot fluid and steam may be blown out under pressure, which could cause serious injury. When the engine has cooled, open the radiator cap as follows:
Place a thick rag or a towel over the radiator cap. Slowly rotate the cap counterclockwise toward the detent. This allows any residual pressure to escape. When any hissing sound has stopped, press down on the cap while turning counterclockwise and remove it.

T02015

CAUTION

To avoid transmission breakages use the shift lever only while the vehicle is standing still and the engine is running at idle speed.

T02017

CAUTION

TO KEEP THE CLUTCH & TRANSMISSION IN GOOD CONDITIONS.

Use:

Low Range:

- Basic operation at speeds less than 11km/h
- Heavy pulling
- Riding through rough terrain (swamps, mountains, etc.) at low ground speeds

High Range:

- Basic operation at speeds greater than 11km/h
- High ground speeds.

T02016

WARNING



Operating this ATV if you are under the age of 16 increases your chance of severe injury or death.

NEVER operate this ATV if you are under age 16.

T02001

CAUTION

- Do not switch on 4WD if the rear wheels are spinning. This cause severe machine damage.
- When switch on 4WD, the button will stay in 4WD position but 4WD mechanics maybe still disengaged. Always apply throttle gently and let the wheels move slightly to allow the 4WD mechanics finally engage.
- The 4WD indicator on the speedometer will come on when 4WD engaged.

T02011

WARNING

Hot Surfaces

Never touch engine or exhaust system after running engine, until they have cooled.

T02012

WARNING

Never Operate this vehicle on HILLS steeper than 15% gradient. To prevent flip over on hilly terrain, use the throttle and brake gradually.

Operation of the ATV in reverse, even at low speeds can be dangerous. Steering and control of the ATV can become difficult.

To prevent flip over, avoid sudden braking and sharp turns.

T02013





WARNING

- **NEVER** carry a passenger on rack.
- **DO NOT TOW** from rack or bumper.
- **MAX REAR LOAD:** 44 lb. (20 kg) evenly distributed.



WARNING

Attempting to shift the operating range of the transmission, or to shift into or out four wheel drive while the ATV is in motion or the engine speed higher than idle can cause loss of control of the ATV or severe damage to the transmission and drive system.

Never attempt to shift the operating range of the transmission or to shift into or out four wheel drive while the ATV is in motion or the engine speed higher than idle.

T02019



CAUTION

Engine/Radiator Coolant Only Ethylene Glycol and Water Mix.

Note: Always follow the coolant manufacturer's mixing recommendations for the freeze protection required in your area.

T02022



WARNING



NEVER ride as a passenger

Passengers can cause a loss of control, resulting in **SEVERE INJURY** or **DEATH**.

T02027



WARNING

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

- Cold tire pressure:
 - Front : 48 kPa (7psi)
 - Rear : 48 kPa (7psi)
- Maximum weight capacity : 105Kg (232 lbs.)

T02721





WARNING

- **NEVER** carry a passenger on a rack.
- **DO NOT TOW** from rack or bumper.
- **MAX FRONT LOAD:** 22 lb. (10 kg) evenly distributed.



NOTE

Use 4WD only when necessary, this will result in less fuel consumption and longer life for the machine.

T02021

WARNING

This guard must be in place during operation of the engine. Keep hands, feet, hair and loose garments away from the engine, chain and drive components.

T02033

CAUTION

Do not plug in any heat-generating accessory such as an automobile cigarette lighter because it can damage the socket.

T02010

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.**

T02002

4. Daily Pre-Ride Inspection



WARNING

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result

Use the following checklist to verify your machine is in proper working order each time you ride.

Item/Inspection procedure

1. Tire-check condition and pressures.
2. Fuel tank-fill the fuel tank to its proper level.
3. All brakes-check operation, adjustment and fluid level (includes auxiliary brake).
4. Throttle-check for free operation and closing.
5. Headlight / Taillight / Brake Light -check operation of all indicator lights and switches.
6. Engine stop switch-check for proper function.
7. Wheels-check for tightness of wheel nuts and axle nuts; check that axle nuts are secured by cotter pins.
8. Air cleaner element-check for dirt; clean or replace.
9. Steering-check for free operation noting any unusual looseness in any area.
10. Loose parts-visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners.
11. Operator helmets, goggles and clothing.
12. Engine coolant check for proper level at the recovery bottle.

5. Operation Warnings

Getting on and leaving the ATV

Get on

Get on the ATV from the left or right using the footrests/steps.

Leave

Check that the surroundings are in safe condition and then slowly park the ATV.

Stop the engine. (Key off)

Push the parking lever to the ON position to lock the rear wheels.

Leave the ATV through left or right steps.



WARNING

Potential Hazard

Operating this ATV without proper instruction.

What can Happen

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

How to Avoid the Hazard

Beginner operators must complete official certified training courses. After training, they shall frequently practice all riding techniques outlined in this Owner's Manual.

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

Potential Hazard

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

What can Happen

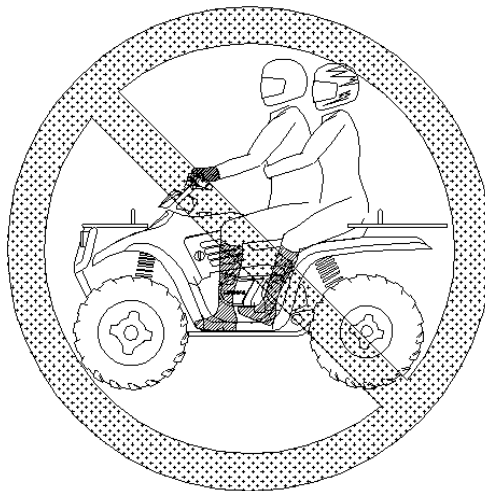
Operating without an approved helmet increases your chances of a severe head injury or death in the event of an accident.

Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.

How to Avoid the Hazard

Always wear an approved helmet which fits properly.

You should also wear: eye protection (goggles or face shield); gloves; boots; long-sleeved shirt or jacket; and long pants.



Potential Hazard

Carrying a passenger on this ATV.

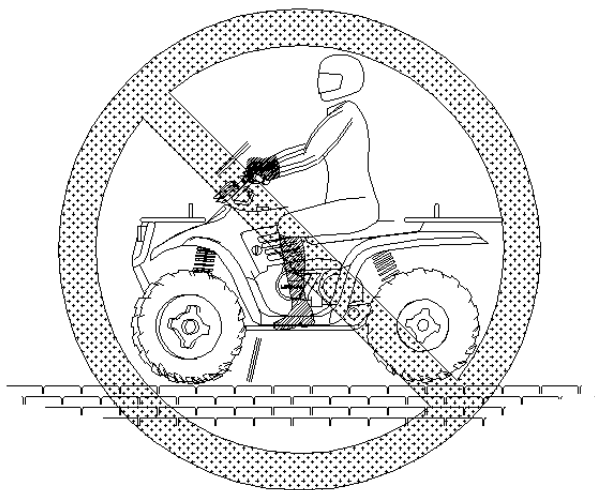
What can Happen

Greatly reduces your ability to balance and control this ATV.

Could cause an accident, resulting in harm to you and /or your passenger.

How to Avoid the Hazard

Never carry a passenger.



Potential Hazard

Operating this ATV on paved surfaces, including sidewalks, paths, parking lots, and driveways.

What can Happen

Paved surfaces may seriously affect handling and control of the ATV, and may cause the vehicle to go out of control.

How to Avoid the Hazard

Avoid operating the ATV on pavement.

Potential Hazard

Operating this ATV after consuming alcohol or drugs.

What can Happen

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

How to Avoid the Hazard

Never consume alcohol or drugs before or while driving this ATV.

Potential Hazard

Operating this ATV at excessive speeds.

What can Happen

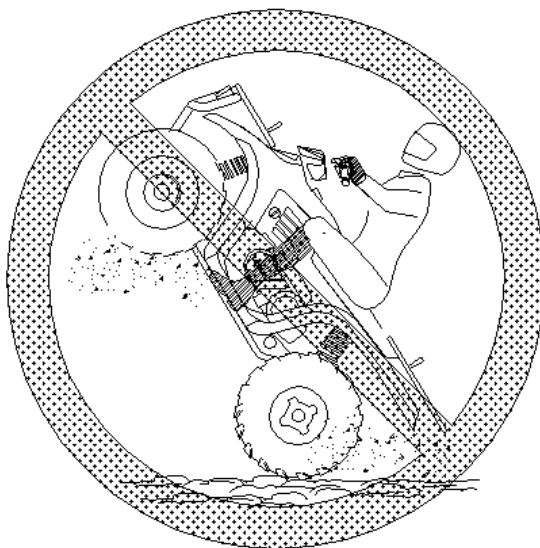
Increases your chances of losing control of the ATV, which can result in an accident.

How to Avoid the Hazard

Always travel at a speed which is proper for the terrain, visibility and operating conditions; and your experience.



WARNING



Potential Hazard

Attempting wheelies, jumps and other stunts.

What can Happen

Increases the chance of an accident, including an overturn.

How to Avoid the Hazard

Never attempt stunts, such as wheelies or jumps.

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

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

Potential Hazard

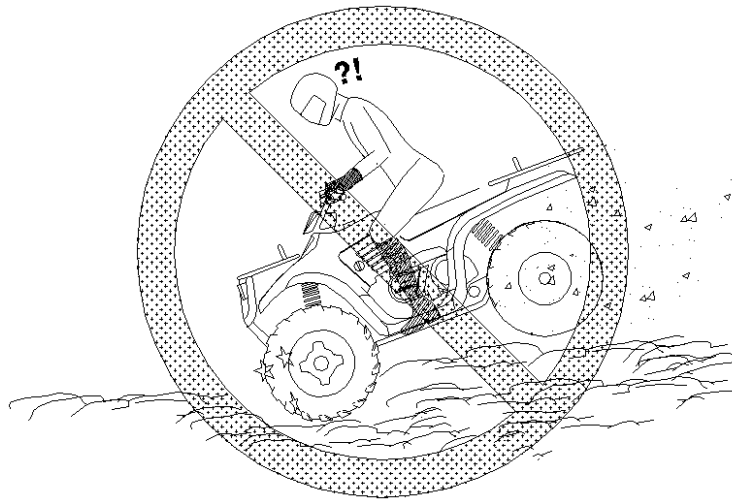
Removing hands from handlebars or feet from footrests during operation.

What can Happen

Removing even one hand or foot can reduce your ability to control the ATV or could cause you to lose your balance and fall off the ATV. If you remove a foot from the footrest, your foot or leg may come into contact with the rear wheels, which could injure you or cause an accident.

How to Avoid the Hazard

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



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.

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 vehicle 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.

Potential Hazard

Climbing hills improperly.

What can Happen

Could cause loss of control or cause ATV to overturn.

How to Avoid the Hazard

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

Always check the terrain carefully before you start up any hill.

Never climb hills with excessively slippery or loose surfaces.

Shift your weight forward.

Never open the throttle suddenly. The ATV could flip over backwards.

Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.

Potential Hazard

Turning improperly.

What can Happen

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 the Owner's Manual.

Practice turning at low speeds before attempting to turn at faster speeds.

Do not turn at excessive speed.

Potential Hazard

Operating on excessively steep hills.

What can Happen

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

How to Avoid the Hazard

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

Practice on smaller hills before attempting large hills.

Never operate ATV on hills steeper than 15% grade.

Potential Hazard

Going down a hill improperly.

What can Happen

Could cause loss of control or cause ATV to overturn.

How to Avoid the Hazard

Always follow proper procedures for going down hills as described in the Owner's Manual. NOTE: A special technique is required when braking as you go downhill.

Always 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 which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.

Potential Hazard

Improperly crossing hills or turning on hills.

What can Happen

Could cause loss of control or cause 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.

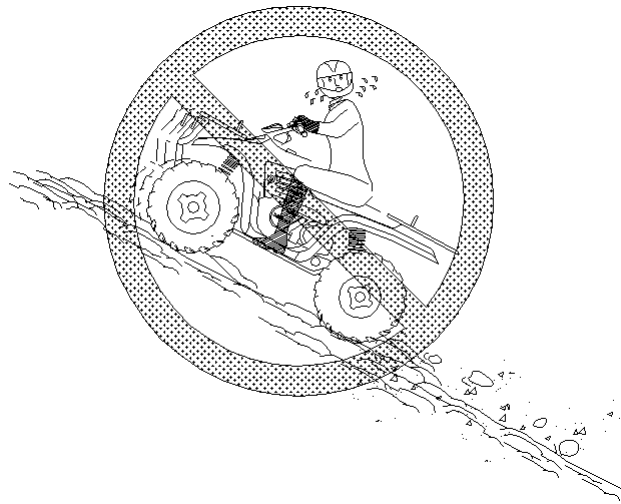
When crossing the side of a hill:

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 ATV overturning.

How to Avoid the Hazard

Maintain steady speed when climbing a hill.

If you lose all forward speed:

Keep weight uphill.

Apply the brakes.

Lock parking brake after you are stopped.

If you begin rolling backwards:

Keep weight uphill; never apply engine power.

Do not apply the rear brake when rolling backward.

Apply the single-lever brake gradually.

When fully stopped, apply rear brake as well, and then lock parking brake.

Dismount on uphill side, or to either side if pointed straight uphill.

Turn the ATV around and remount following the procedure described in the Owner's Manual.

Potential Hazard

Improperly operating over obstacles.

What can Happen

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

How to Avoid the Hazard

Before operating in a new area, check for obstacles.

Use extreme caution when riding over large obstacles, such as large rocks or fallen trees.

If you cannot avoid obstacles, always follow proper procedures as described in the Owner's Manual.

Potential Hazard

Skidding or sliding.

What can Happen

You may lose control of the ATV.

You may also regain traction unexpectedly, which may cause the ATV to overturn.

How to Avoid the Hazard

On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

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, which could lead to an accident.

How to Avoid the Hazard

Never operate the ATV through water which exceeds the recommended maximum depth in this manual.

Avoid operating the ATV through deep or fast flowing water. If you cannot avoid water, go slowly, balance your weight carefully avoiding sudden movement, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.

Remember that wet brakes may have reduced stopping ability.

Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the pads.

Potential Hazard

Improperly operating in reverse.

What can Happen

You could hit an obstacle or person behind you, resulting in severe injury.

How to Avoid the Hazard

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

Potential Hazard

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

What can Happen

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, and increases the risk of an accident.

How to Avoid the Hazard

Always use the size and type tires specified in the Owner's Manual for this vehicle.

Always maintain proper tire pressure as described in the Owner's Manual.

Potential 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 in some situations 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 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 dealer.

Potential 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 in the Owner's Manual for carrying cargo or pulling a trailer.

Potential Hazard

Riding on frozen lakes and rivers.

What can Happen

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

How to Avoid the Hazard

Never ride your ATV on a frozen body of water before you are sure the ice is thick enough and sound enough to support the machine and its operator, as well as the force that is created by a moving vehicle.

After a rollover or an accident, have a qualified service dealer check the complete machine including, but not limited to, brakes, throttle and steering for possible damage.

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

Keep combustible materials away from exhaust system. Fire may result.



WARNING

Hitch



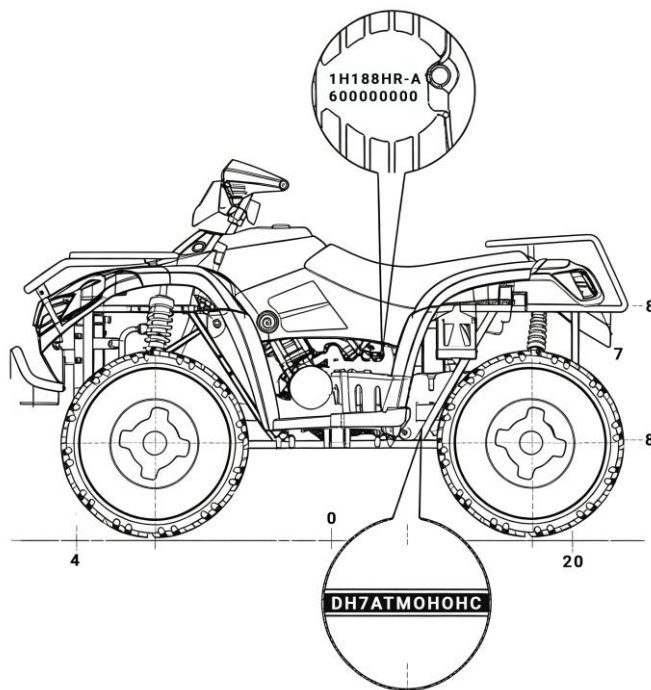
Cautions when installing the implement or dragging the ATV

1. When installing the dragging implement trailer, the engine should stop and the ATV should park at the safety position.
Please read implements or trailer's installing instructions, signs and operating manuals carefully before changing.
2. The operation should be carried out according to the operating manual. Before finishing installing the dragging implement or trailer, it is forbidden to operate the tractor which is installed implement or connected trailer.
3. When connecting the dragging implement or trailer to ATV, it maybe causes personal injury if the person is lack of necessary experience. So, the professional should be invited when necessary.
4. The implement should have fallen to ground before people leaving the ATV.
5. People should keep away from the areas between ATV and trailer when ATV is working with trailer.

Backhoe cannot be attached.

This ATV is not applicable to “forestry application” and “work with crop sprayers”.

6. V.I.N



Record these numbers from your ATV in the spaces provided.

1. Frame VIN (found on the lower right side of the frame tube)
2. Engine Serial Number (Left front side of engine crankcase)

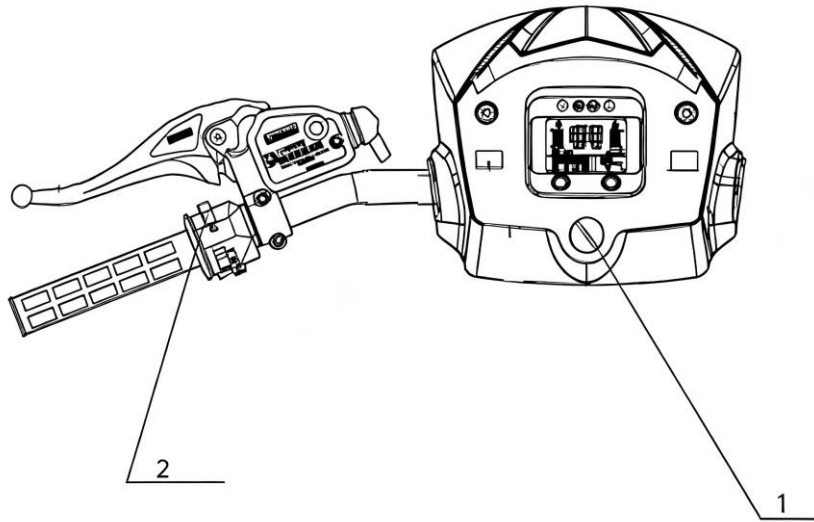
Remove the spare key and store in a safe place. Your key can be duplicated only by obtaining a key blank and having it cut by mating it with your existing key.

Record Key Number

The vehicle frame serial number and engine serial number are critical for vehicle identification during registration, insurance application, or parts replacement. In the event your vehicle is stolen, these numbers are essential for the identification and recovery of your ATV.

7. Control and Parts Functions

Electrical Switches



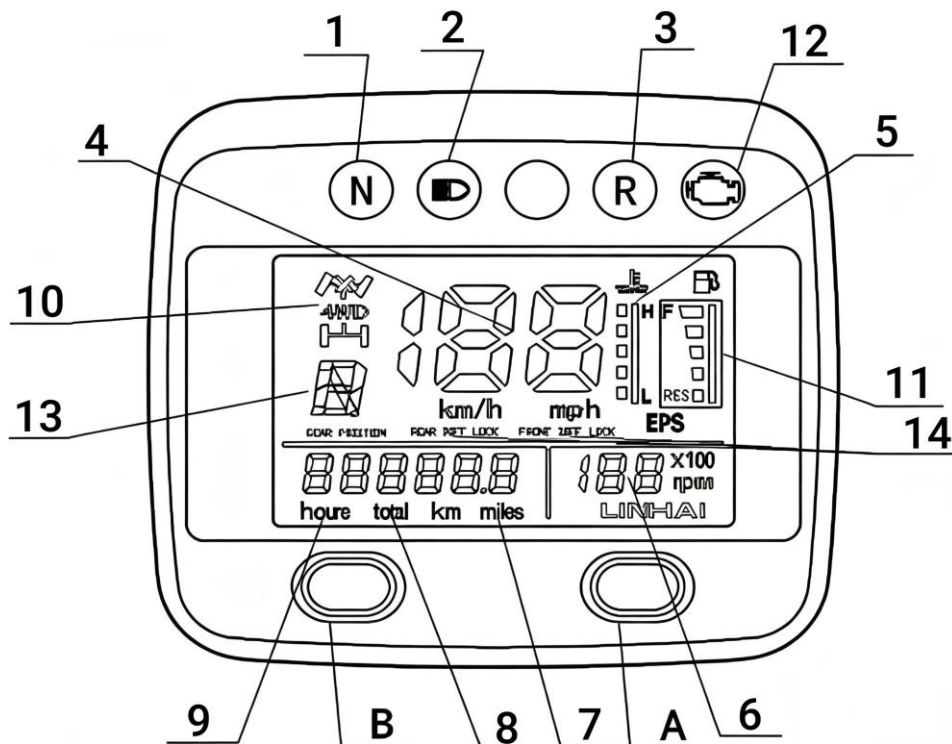
1. Main Switch-This key switch must be turned clockwise to the "ON" position to start the engine.
2. Engine Start Button-Used to start the engine.

Override Switch (Reverse Speed Limiter)

Some versions of this vehicle are equipped with a reverse speed limiter system. Press the override button to gain extra power when reversing.

WARNING: Never activate the override button while the throttle is open. Loss of vehicle control may occur, which could cause severe personal injury or death.

LCD Meter



1.	Neutral indicator light	10.	2WD/4WD indicator
2.	High beam indicator light	A.	km / mile selector
3.	Reverse indicator light	B.	hour / distance selector
4.	Speedometer	11.	Fuel gauge Indicator
5.	Coolant temperature meter	12.	EFI
6.	Engine rpm meter	13.	Gear position indicator
7,8.	The odometer	14.	Rear Diff Lock
9.	Engine working hour counter		

Throttle



WARNING

Do not start or operate an ATV with sticking or improperly operating throttle controls. A stuck or improperly operating throttle could cause an accident resulting in severe injury or death.

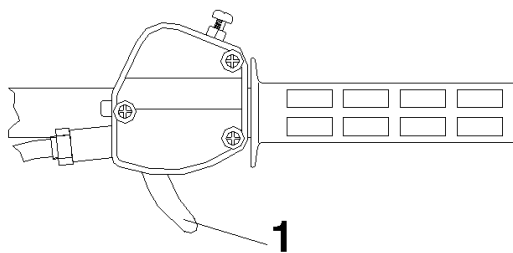
Always contact your dealer for service repairs whenever throttle problems arise.

Failure to check or maintain proper operation of the throttle system can result in the throttle lever sticking during riding and cause an accident.

Always check the lever for free movement and return before starting the engine and occasionally during riding.

Throttle Lever

Engine speed and vehicle movement are controlled by pressing the throttle lever. The throttle lever (1) is spring loaded and engine speed returns to idle when the lever is released.



WARNING

Washing or operating the ATV in freezing temperatures can result in water freezing in the throttle cable conduit and/or on the throttle mechanism.

This may result in the throttle sticking which can cause the engine to continue to run and result in loss of control.

Front and Rear Brakes

The brake fluid level should be checked before each ride. The reservoir of hand brake is located on the left side of the handlebar.

The reservoir of foot brake is located under the seat. The fluid should be kept between the maximum and minimum marks.



CAUTION

Once a brake fluid bottle is opened, pour out only the required amount and dispose of any leftover fluid. Do not store or reuse partially used brake fluid. Brake fluid is hygroscopic, which means it quickly absorbs moisture from ambient air. This lowers the boiling point of the brake fluid, resulting in premature brake fade and creating a risk of severe injury.

Front and Rear Brakes

The front and rear brakes are located on the inside of the right floor board and are operated by the right foot. The front and rear brakes are hydraulically activated disc type brakes which are activated by one pedal only.

Always test brake pedal travel and reservoir fluid level before riding. When squeezed, the pedal should feel firm. Any sponginess would indicate a possible fluid leak or low master cylinder fluid pedal which must be corrected before riding. Contact your dealer for proper diagnosis and repairs.



WARNING

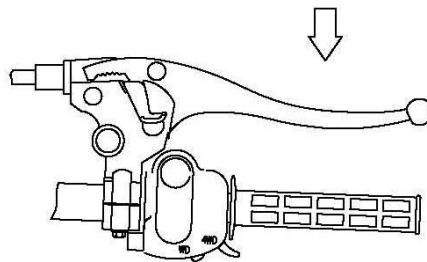
Never operate the ATV with a spongy feeling brake pedal. Operating the ATV with a spongy brake pedal can result in loss of braking. Loss of braking could cause an accident

Setting the Parking Brake

On independent suspension models:

1. Squeeze the left-hand brake lever two or three times and hold it firmly.
2. Push the park brake lock into the notches on the lever body. Release the brake lever.

To release the parking brake lock, squeeze the brake lever. It will return to its released position.



Important Safeguards

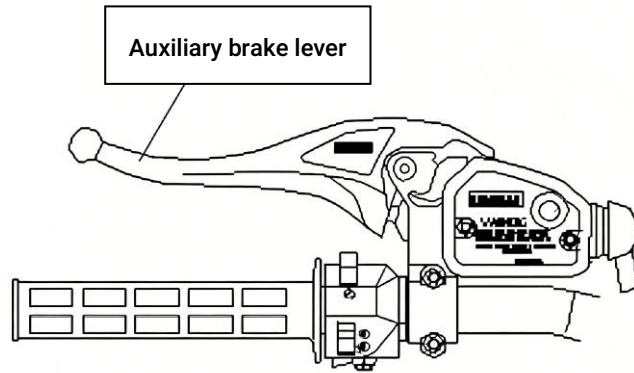
- The parking brake may relax when left on for a long period of time. This could cause an accident.
- Do not leave the vehicle on a hill depending on the parking brake for more than five minutes.
- Always block the downhill side of the wheels if leaving the ATV on a hill or park the ATV in a side hill position.

WARNING

Always check to be sure that the parking brake has been disengaged before operating the ATV. An accident could result causing severe injury if the parking brake is left on while the ATV is operated.

Auxiliary Brake

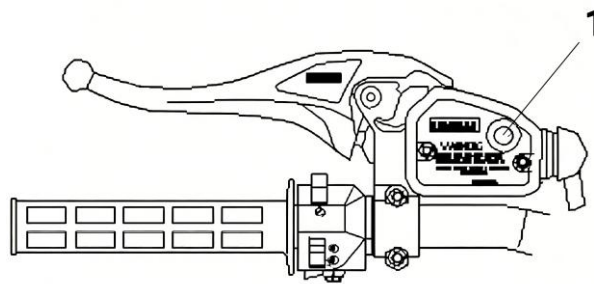
Use caution when applying the auxiliary brake. Do not aggressively apply the auxiliary brake when going forward or the rear wheels may skid and slide sideways causing loss of control.



Your ATV has an auxiliary brake as a safety feature. It is located on the left handlebar and is operated by the left hand. It is intended as a backup to the main brake system, especially if the main system becomes inoperative.

If the rear wheels slide, apply the rear brake with the left hand to some extent. Aggressively applying the rear brake when backing down a hill may cause rear tip over.

Brake Fluid Level



Top Window

The brake fluid in the master cylinder, which is located on the left handlebar, should be checked before each ride. There is an indicator window (1) on the top of the master cylinder. This window will appear dark when the fluid level is full. When fluid needs to be added, the window will be clear. **NOTE:** When checking the fluid level, the ATV must be on level ground and the handlebars must be straight. If the fluid level is low add DOT 3 only.

On some models, there is a "side window", the fluid level can be seen through it, and should be maintained between the indicated "max" and "min" marks on the reservoir.

Automatic Transmission Gear Selector Operation

The transmission gear selector is located on the left side of the vehicle. The transmission selector lever has four positions: high forward; reverse; neutral; and low forward.

NOTE

To extend belt life, use low forward gear in heavy pulling situations and in situations where you are operating below 7mph(11km/h) for extended periods of time.



CAUTION

To change gears, stop the vehicle and with the engine idling, move the lever to the desired gear. Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.

Maintaining shift linkage adjustment is important to assure proper transmission function. Should you experience any shifting problem see your dealer.



WARNING

To shift to L gear, please hold the shift handle and push forward until it reaches the L position.

Verify proper Low (L) gear engagement.

Do not press the release button. Hold the shift lever and pull it back to High (H) gear.

If the lever cannot shift back to High gear, the Low gear has fully engaged correctly.

If it slides back freely, Low gear engagement is incomplete.

Improper engagement may lead to severe transmission damage. If incomplete engagement occurs, re-engage Low gear following the above steps.

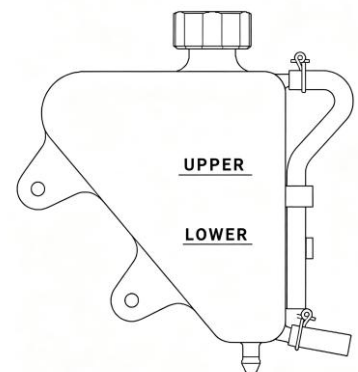
Engine Cooling System

Coolant Level

Independent suspension model

The recovery bottle, located under the seat, must be maintained between the minimum and maximum levels indicated on the recovery bottle.

The engine coolant level is controlled or maintained by the recovery system. The recovery system components are the recovery bottle, radiator filler neck, radiator pressure cap and connecting hose.



As coolant operating temperature increases, the expanding (heated) excess coolant is forced out of the radiator past the pressure cap and into the recovery bottle. As engine coolant temperature decreases, the contracting (cooled) coolant is drawn back up from the tank past the pressure cap and into the radiator.

NOTE

A slight drop in coolant level on new vehicles is normal, as the cooling system bleeds trapped air automatically. Frequently check the coolant level and top up the overflow reservoir with coolant to maintain the specified range. We recommend a 50/50 blend of high-quality, aluminum-compatible antifreeze coolant and distilled water.

Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

Cooling System



Never remove the pressure cap when the engine is warm or hot. Escaping steam can cause severe burns. The engine must be cool before removing the pressure cap.

Radiator Coolant Level Inspection

NOTE

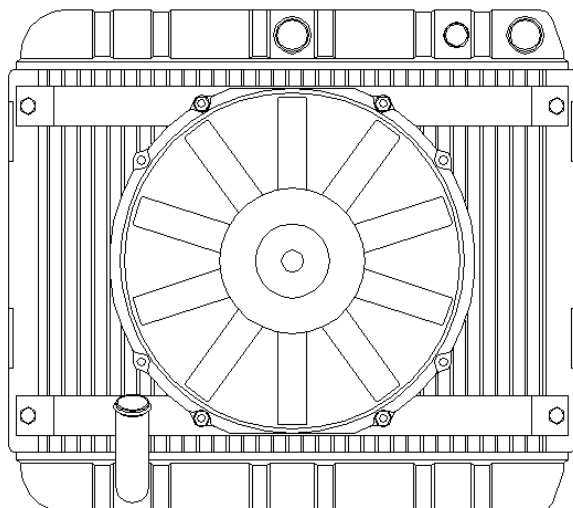
This procedure is only required if the cooling system has been drained for maintenance and/or repair. However, if the recovery bottle has run dry, the level in the radiator should be inspected and coolant added if necessary.

NOTE

Installing a non-standard radiator pressure cap will impair the normal operation of the coolant recovery system. If the cap needs to be replaced, contact your authorized dealer to purchase the matching OEM replacement part.

To ensure the coolant retains its full engine protection performance, the entire cooling system must be fully drained every two years, then refilled with a new 50/50 antifreeze and distilled water blend.

Using a funnel, slowly add coolant as necessary through the radiator filler neck.



Fuel and Oil system



WARNING

Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
- Always shut off the engine before refueling. Refuel only outdoors or in a well-ventilated area.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed or where gasoline is stored.
- Do not over fill the tank. Do not fill the tank neck.
- If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.
- Shut off fuel valve whenever the ATV is stored or parked.

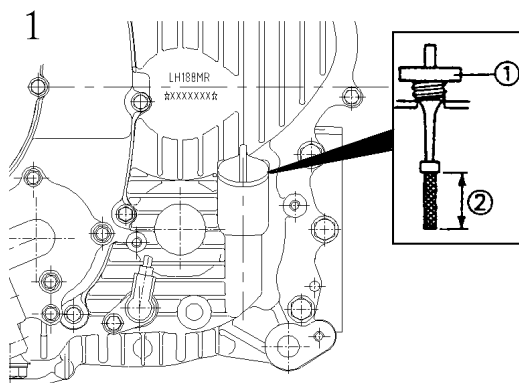
The engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects or other reproductive harm.

Oil System

The oil tank is located on the right side of the engine.

To check the oil:

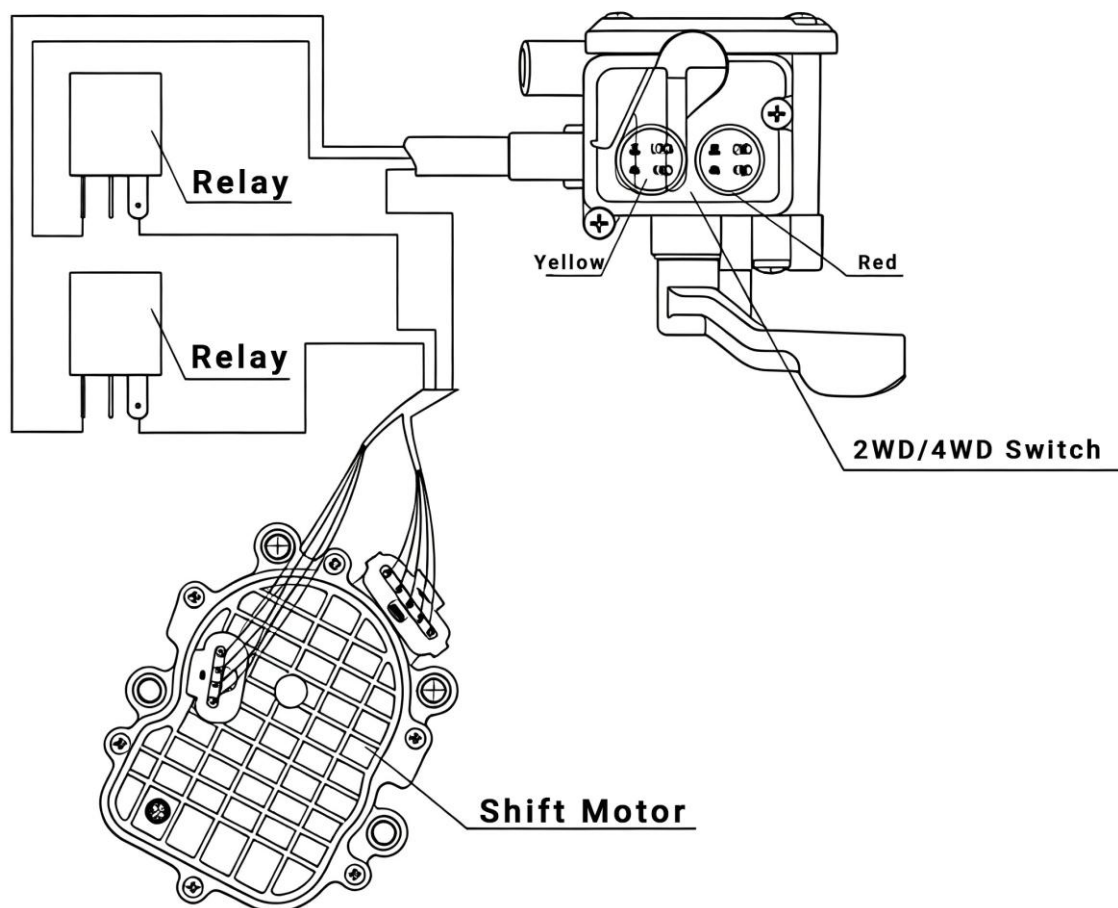
1. Set machine on a level surface.
2. Start the engine and let it idle for 20-30 seconds.
3. Stop the engine, remove dipstick (1) and wipe dry with a clean cloth.
4. Put dipstick into the oil tank (don't screw in it), remove it and read the oil level.
5. Remove dipstick and check to see that the oil level is between the full and add marks (2). Add oil as indicated by the level on the dipstick. Do not overfill.



CAUTION

Use only SAE 15W/40, SG OIL. Do not substitute or mix different oil brands; doing so may cause severe engine damage and void your warranty.

4 Wheel Drive /Diff Lock System



CAUTION

Always shift when the vehicle is stopped.

NOTE

When shift 2WD/ 4WD or Diff Lock, the mechanics in the front gear box maybe still engaged/ disengaged, the mechanics would finally disengaged/ engaged when rides on a hard surface or rides in reverse.

Do not switch on 4WD if the rear wheels are spinning. This may cause severe machine damage. When switch on 4WD, the button will stay in 4WD position but 4WD mechanics maybe still disengaged. Always apply throttle gently and let the wheels move slightly to allow the 4WD mechanics finally engage. The 4WD indicator on the speedometer will come on when 4WD engaged.

Steering effort increase but remains balanced from left to right.

WARNING

Extreme heavy steering is a symptom of malfunction of front gearcase (differential), loss of control could result, even in 2WD position. If you experience any symptoms from the steering, take the ATV to your dealer for inspection and service.

Asymmetrical heavy steering is a symptom of malfunction of one side inner or outer CV joints, loss of control could result, even in 2WD position. If you experience any symptoms from the steering, take the ATV to your dealer for inspection and service.

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

Pre-ride inspection

You can tell if malfunctions in one side CV joints by pulling the handlebar to one side or riding the ATV in low speed. Steering remains balanced from left to right in 2WD and 4WD positions.

8. Starting the Engine

Procedure for Starting a Cold Engine

WARNING

Never run an engine in an enclosed area. Carbon monoxide exhaust gas is poisonous and can cause severe injury or death. Always start engines outdoors.

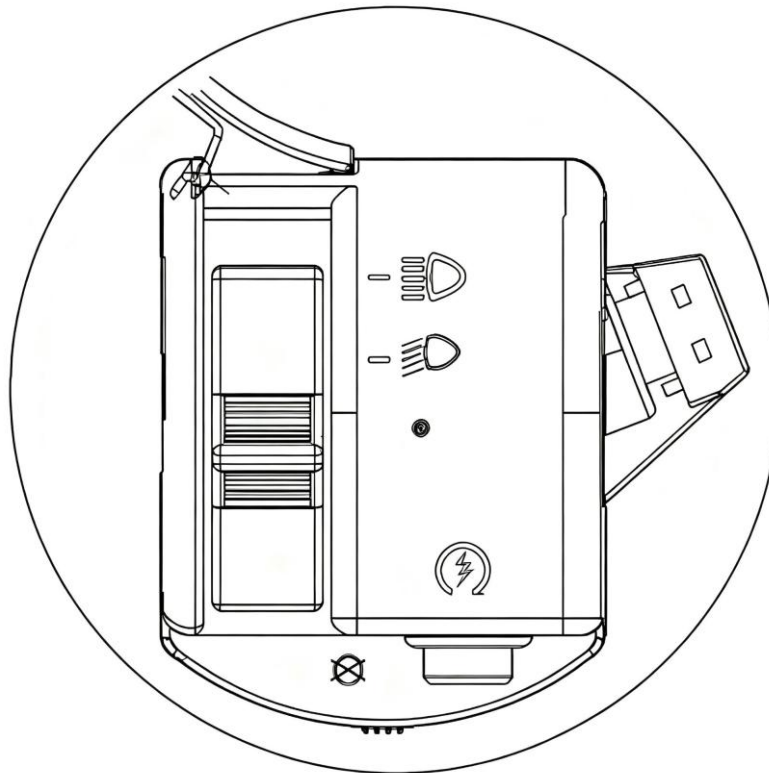
CAUTION

You must allow your vehicle adequate warm up time before operating or engine damage could result.

1. Place the transmission in neutral and reset the parking brake.
2. Turn the fuel tank valve to ON.
3. Sit on the vehicle.
4. Turn the engine stop switch to RUN.
5. Turn the ignition key to ON, apply the brake lever and press the starter button.
6. Do not press the throttle more than 20% while starting the engine.
7. Activate the starter for a maximum of five seconds, releasing the button when the vehicle starts. If engine does not start, release the starter for another five seconds. Repeat this procedure until engine starts.

How to start the Engine

1. With the throttle closed, press the starter button Pressing the electric starter button for more than 5 seconds at a time may cause the starter to overheat and damage the starter. Release the starter button for approximately 10 seconds before pressing it again.
2. Continue warming up the engine until it runs smoothly.
3. If idling is unstable, open the throttle slightly.



9. Vehicle Break in Period

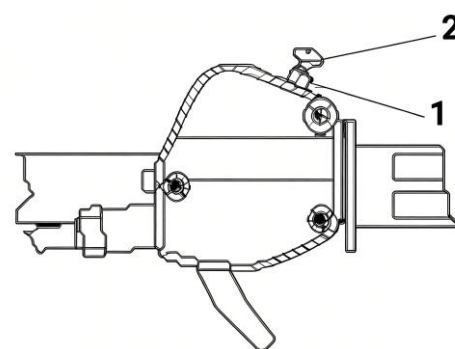
The break-in period for your new ATV is defined as the first 50 hours of operation. No single action on your part is as important as a proper break in period. Careful treatment of new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.

CAUTION

do not operate at full throttle or high speeds for extended periods during the break-in period. Excessive heat can build up and cause damage close fitted engine parts.

Please set a limit to half throttle during the break-in periods.

1. Locknut 2. Adjuster



1. Fill fuel tank.
2. Check oil reservoir level indicated on dipstick. Add oil if necessary.
3. Drive slowly at first. Select an area which is open and will give you room to familiarize yourself with vehicle operation and handling.
4. Vary the throttle positions. Do not operate at sustained idle.
5. Perform regular inspections of fluid levels, operating controls and all critical vehicle components, following the daily pre-ride inspection checklist specified in "4. Daily Pre-Ride Inspection".
6. Do not tow cargo or heavy loads.
7. Break in oil and filter. Change at 20 hours or 500 miles/800km.

10. Riding Gear

Safe Riding Gear

Always wear clothing suited to the type of riding you are doing. ATV riding requires special protective clothing which will make you feel more comfortable and reduce chances of injury.

1. **Helmet** Your helmet is the most important piece of protective gear for safe riding. A helmet can prevent a severe head injury.
Select an approved helmet.
2. **Eye Protection** A pair of goggles or helmet face shield offer the best protection for your eyes.
3. **Gloves** (off-road style)
4. **Boots**-Wear a pair of sturdy over-the-calf boots with heels, such as motocross boots.
5. **Clothing** To protect your body, long sleeves and pants should always be worn. Riding pants with kneepads, a jersey and shoulder pads provide the best protection.

11. Carrying Loads

Your ATV has been designed to carry a certain amount of load. CARGO WEIGHT should be evenly distributed (1/3 on the front and 2/3 on the rear) and mounted as low as possible. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Never exceed the weights specified in your Owner's Manual.

Maximum trailer weight-440 lbs (200kg) on level ground. Maximum vertical hitch weight-25 lbs (11kg).

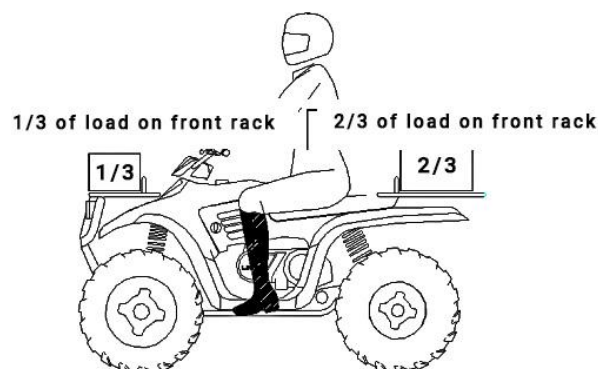
Improper loading of the front rack can obstruct the headlight beam, reducing night visibility. Do not obstruct the headlight beam with cargo.

Use of low forward gear is recommended in heavy pulling situations to extend belt life.



WARNING

Correct loading of this vehicle is necessary to maintain proper stability and operating characteristics. Overloading or incorrect positioning of the load affects the vehicle's turning, stopping distance and stability. Failure to follow loading requirements could cause severe injury or death.



Important Safeguards

To reduce risk of injury or machine damage when carrying loads, read and follow the warnings listed below:

Reduce speed and allow greater distance for braking when carrying cargo.

- Cargo Weight Distribution should be 1/3 on the front rack and 2/3 on the rear rack. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions. Carrying loads on one rack only increases the possibility of vehicle tip over.
- Heavy loads can cause braking and control problems. Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations which may require backing downhill.
- All loads must be secured before moving the vehicle. Unsecured loads can create unstable operating condition, which could result in loss of control of vehicle.
- Loads must be carried as low on the racks as possible. Carrying loads high on the racks raises the center of gravity of the vehicle and creates a less stable operating condition. When cargo loads are carried high on the racks, the weight of the loads must be reduced to maintain stable operating conditions.
- Operate only with stable and safely arranged loads. Avoid handling off-centered loads which cannot be centered. Always attach the tow load to the hitch point designated for your ATV.
- Extreme caution must be used. Avoid operating with loads extending over the rack sides. Stability and maneuverability may be adversely affected, causing the vehicle to overturn.
- Do not block the headlights, taillights and reflectors when carrying loads on the racks.
- Do not travel faster than the recommended speeds. Vehicle should never exceed 10 mph (16km/h) while towing a load on a level grass surface. Vehicle speed should never exceed 5 mph (8km/h) when towing loads in rough terrain, while cornering, or while ascending or descending a hill.

Use A Safety Chain

- A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
- Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- Ensure trailer hitch is secured before attaching safety chains. Safety chains must be used alongside the trailer hitch.



12. Riding



WARNING

The engine rpm limiter will work at 7500rpm, this may cause excess fuel to accumulate in the exhaust, which can ignite via the muffler catalyst in the muffler, May result in the mufflers overheating and fire risk. Always reduce throttle when the engine reach top rpm, avoid the engine popping.

Riding this ATV with poor engine tuning may result in the mufflers overheating and fire risk. If the motor is running roughly, stop the ATV immediately and have it serviced by the authorized dealer.

You must inspect your ATV each time before riding to ensure it is in proper working order. If proper inspection is not done, severe injury or death could result.

See "4.Daily Pre-Ride Inspection"

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

Making turns

Practice making turns at slow speeds

This ATV is equipped with a solid rear axle which drives both

rear wheels equally at all times. This means that the outer wheel must travel a longer distance than the inner wheel when turning and the inside tire must slip traction slightly. To turn, steer in the direction of the turn leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the rear wheels allowing the turn to be made smoothly. The same leaning technique should be used for turning in reverse.

Avoid turning at sharp angles in reverse as tip over and severe injury may result.

Riding on slippery surfaces

Whenever riding on slippery surface such as wet trails or loose gravel, or during cold freezing weather, special attention must be paid to prevent vehicle turnover.

Always:

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

4. Never apply brakes during a skid. Complete loss of ATV control can result.
5. Do not operate on excessively slippery surfaces.
6. Always reduce speed and use additional caution.

Failure to exercise care when operating the ATV on slippery.

Surfaces can be dangerous.

Loss of tire traction and vehicle control can result in an accident, including an overturn.

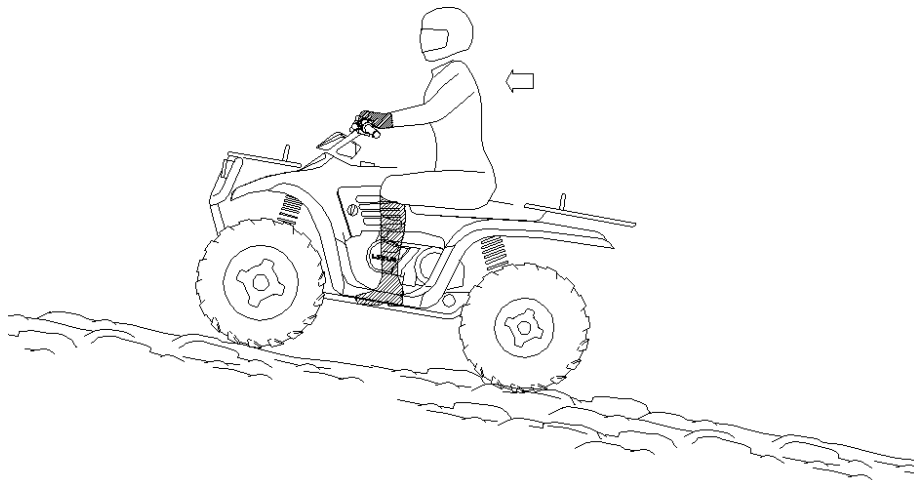
Traveling Uphill

Exercise extreme caution when traveling in hilly terrain.

Braking and handling are greatly affected. Loss of vehicle control or overturning of the ATV could occur causing severe injury or death.

Whenever traveling uphill always travel straight uphill and:

1. Avoid steep hills (maximum 15% grade).
2. Keep both feet on the footrests.
3. Transfer your weight forward.
4. Proceed at a steady rate of speed and throttle opening.
5. Remain alert and be prepared to take emergency action. This may include quick dismounting of the ATV.



Side hilling

Side hilling your ATV is one of the most dangerous types of riding and should be avoided. If you do enter into a situation where side hilling is necessary, always:

1. Slow down.
2. Lean into the hill transferring your upper body weight toward the hill while keeping your feet on the footrests.
3. Steer slightly into the hill to maintain vehicle directions. If vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side immediately!

Improperly crossing hills or turning on hills can be dangerous. Loss of vehicle control or overturning of the ATV could occur causing severe injury or death.

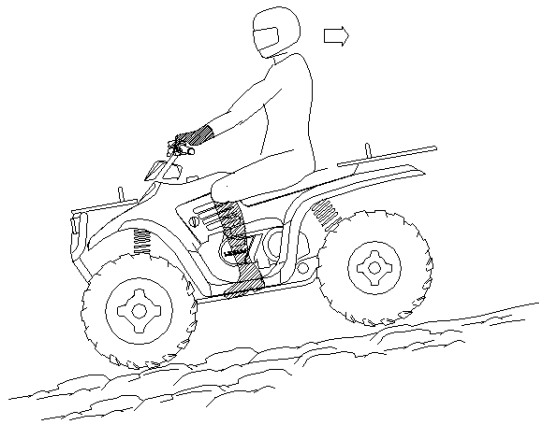
Traveling Downhill.

Whenever descending a hill, always:

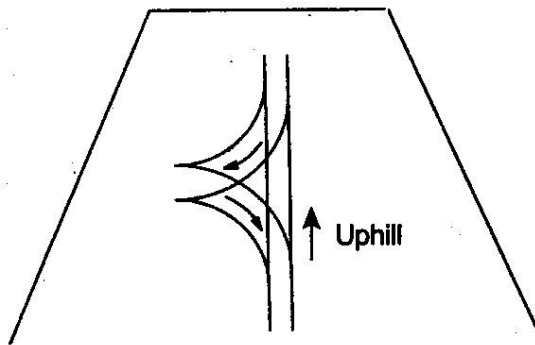
1. Drive directly downhill.
2. Transfer your weight to the rear of the vehicle.
3. Slow down.
4. Apply the brakes slightly to aid in slowing.

Familiarize yourself with the auxiliary rear brake pedal and its use in the event loss of normal service brakes occurs.

Do not travel at excessive speeds. It is dangerous and can cause loss of vehicle control and tipping, resulting in severe injury or death.



Turning Around on a Hill



If the ATV stalls while climbing a hill, never back it down the hill! One maneuver which can be used when it is necessary to turn around while climbing a hill is the K-turn.

1. Stop and lock the parking brake while maintaining body weight uphill.
2. Leave transmission in forward and shut off engine.
3. Dismount on left or uphill side of ATV.
4. Staying uphill of ATV, turn handlebars full left (while facing front of ATV).
5. While holding service brake, release parking brake lock and slowly allow ATV to roll around to your right until ATV is pointing across the hill or slightly downward.
6. Lock the parking brake and remount ATV from the uphill side, maintaining body weight uphill.
7. Restart engine with transmission still in forward, release parking brake, and proceed slowly, controlling speed with the

service brake, until ATV is on reasonably level ground.

Avoid climbing steep hills. Loss of vehicle control or overturning of the ATV could occur resulting in severe injury or death.

Crossing Streams

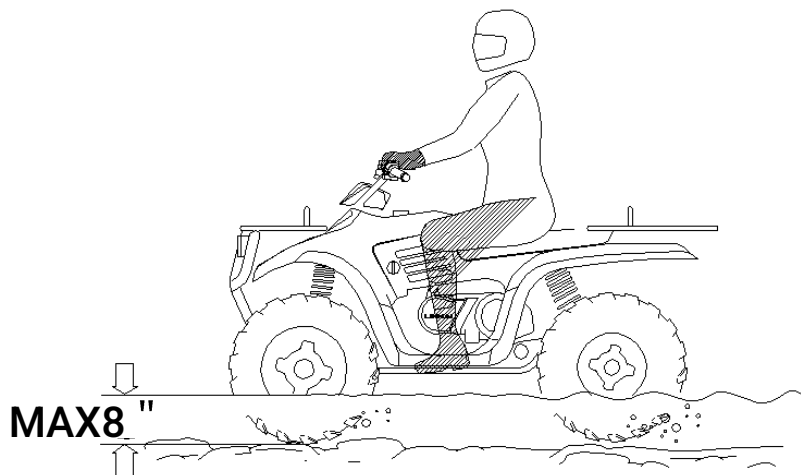
Your ATV can operate through water up to the maximum recommended water depth of 8 inches. Before fording streams, always:

1. Determine water depths and current.
2. Choose a crossing where both banks have gradual inclines.
3. Proceed slowly, avoiding rocks and obstacles if possible.
4. After crossing, dry the brakes by applying light pressure to the lever until braking action is normal.

CAUTION

Never operate the ATV through deep or fast flowing water.

NOTE: After operating the vehicle in water, it is critical that your ATV be serviced per the schedule in the maintenance chart - refer to "16. Maintenance". The following components require special inspection and service: engine oil, transmission fluid, rear gearcase, and all grease fittings.

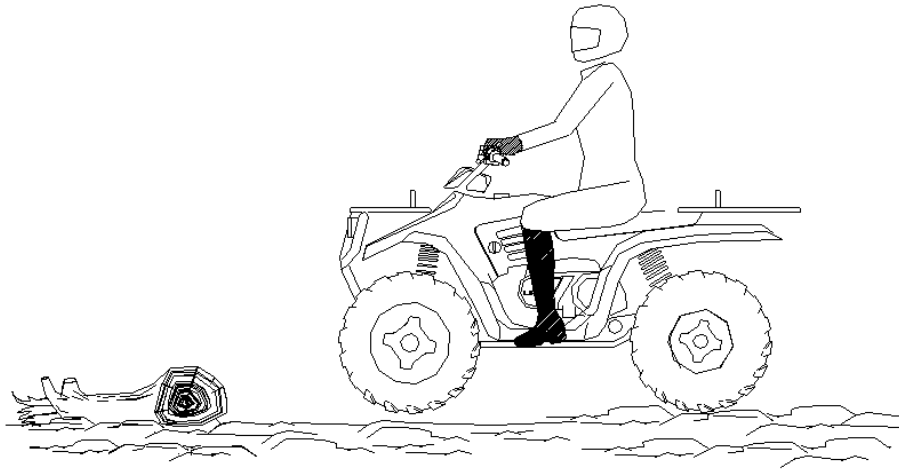


Trail Obstacles

Keep Alert!

Look ahead and learn to read the trail as you ride. Stay on the right side of the trail, if possible, and be constantly alert for hazards such as logs, rocks and low hanging branches.

Not all obstacles are visible. Travel with caution on trails severe injury or death can vehicle comes in contact with a hidden obstacle.



Backing your ATV can be dangerous!

You could hit an obstacle or person behind you; or the vehicle could tip over rearward on a steep incline causing severe injury or death.

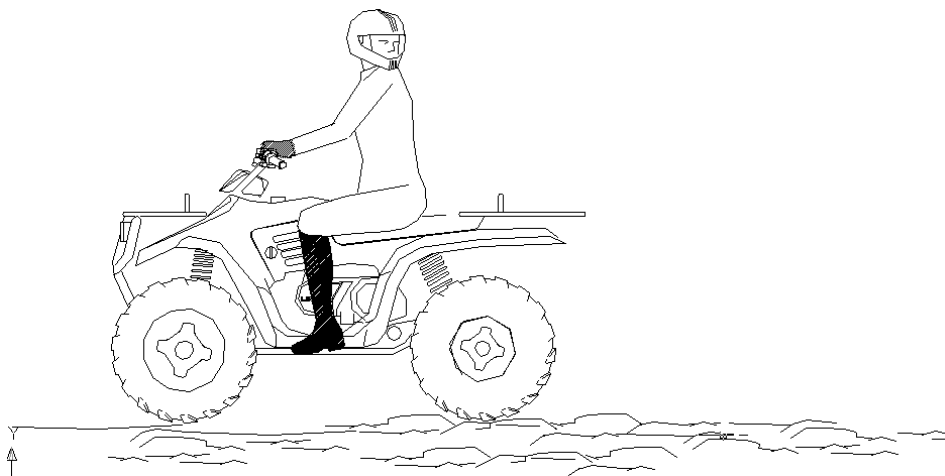
Backing up

1. Avoid backing up on steep inclines.
2. Always back slowly.
3. When in reverse, apply the brakes lightly for stopping.
4. Avoid turning at sharp angles in reverse.
5. Never open the throttle suddenly while backing.

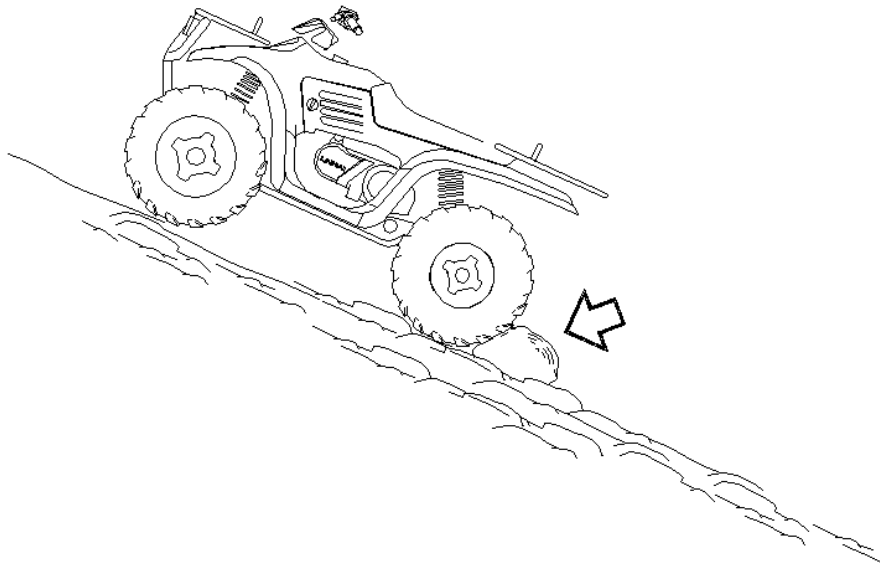
NOTE: This ATV is equipped with a reverse speed limiter. Do not operate at wide open throttle. Only open the throttle enough to maintain a desired speed.

Opening the throttle beyond necessary demand will allow excess fuel to accumulate inside the exhaust system. This unburned fuel may be ignited by the catalyst within the muffler, creating a risk of muffler overheating and fire.

Never ride with engine popping more than 1 minute.



Parking on an incline



Whenever the vehicle is parked

1. Turn the engine off.
2. Place the transmission in gear.
3. Set the parking brake.
4. Shut off fuel supply.
5. Avoid parking on slopes. If it is necessary to park on an incline, always chock the rear wheels on the downhill side as illustrated above.
6. Do not leave the ATV on a hill depending on the parking brake.

13. CVT System

CVT System

On this ATV, the approximate gear ratio difference between high and low range is 1:1.67. This difference in gearing affects the operation of the CVT, especially at speeds less than 7 MPH, due to the system's dependence on engine speed.

By switching to low range while operating at low ground speeds, the air temperature in the clutch will be reduced. Reducing the temperature inside the clutch cover extends the life of the CVT components (belt, cover, etc.).

When To Use Low Range

The following lists provide a guideline for when to use low range rather than high.

Low Range

- Basic operation at speeds less than 7 MPH (11km/h)
- Heavy pulling
- Riding through rough terrain (swamps, mountains, etc.) at low ground speeds

High Range:

- Basic operation at speeds greater than 7 MPH (11km/h)
- High ground speeds

14. Battery Maintenance

Whenever removing the battery, disconnect the negative(black) cable first. When reinstalling the battery, connect the negative (black) cable last or an explosive situation could result causing serious injury or death.

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing.

Antidote:

External: Flush with water.

Internal: Seek medical immediately. Call poison control.

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

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries.

Keep out of reach of children

Replenishing the Battery Fluid

A poorly maintained battery will degrade quickly. Regularly inspect the battery electrolyte level, which must be maintained between the upper and lower indicator marks on the battery casing.

To refill use only distilled water.

Tap water contains minerals which are harmful to a battery.

Battery Removal

1. Disconnect hold down straps holding the electrical box and battery in position and remove battery cover.
2. Remove the battery vent tube from the battery.
3. Disconnect the black (negative) battery cable first.
4. Disconnect the red(positive) battery cable next.
5. Lift the battery out of the ATV, being careful not to tip it sideways and spill electrolyte.



CAUTION

If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the ATV.

Battery Installation and Connections



WARNING

To avoid the possibility of explosion, always connect battery cables in the order specified. Red (positive) cable first; black (negative)

cable last. An exploding battery can cause serious injury or death.

Battery terminals and connections should be kept free of corrosion.

If cleaning is necessary, remove the corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean rags. Coat the terminals with dielectric grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into the battery.

1. Set the battery in its holder.
2. Install the battery vent tube. It must be free from obstructions and securely installed. If not, battery gases could accumulate and cause an explosion. The tube should be routed away from the frame and body to prevent corrosion. Avoid skin contact with electrolyte, severe burns could result.
3. First connect and tighten the red (positive) cable.
4. Second connect and tighten the black (negative) cable.
5. Reinstall battery cover and attach the hold down strap.
6. Verify that cables are properly routed.

NOTE

- When your ATV is placed in storage for one month or more, the battery should be removed, charged to proper level, and stored in a cool dry place.
- Before reusing, take the battery to your dealer for testing and recharging.
Power plug leads may need to be bent down so that battery cover may be installed.
- When installing a new battery, make certain it is fully charged prior to its initial use. Using a new battery that has not been fully charged can damage the battery resulting in a shorter life of the battery, It can also hinder vehicle performance.



CAUTION

Your ATV is fitted with an 20 Ah battery. This capacity may not supply enough power for aftermarket optional accessories. When installing additional optional equipment, upgrade the battery as required. Contact your authorized dealer to purchase the correct matching replacement battery.

15. Exhaust System Safety

System regulation

Tampering with noise control system prohibited!

CAUTION: Exhaust system components are very hot during and after use of ATV.

- Do not touch exhaust system components. Serious burns can result.
- Be especially careful when traveling through tall grass. The potential for fire exists

Catalyst

There is a catalyst in the exhaust system.

Spark Arrestor

The exhaust pipes must be periodically purged of accumulated carbon as follows:

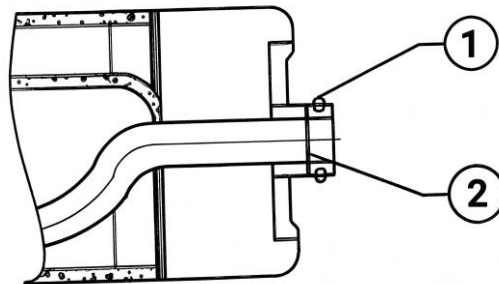
1. Remove the arrestor screw located on the bottom of the muffler and remove the temperature detector located on the surface of the muffler, pull out the arrestor (the mesh).
2. Clean the arrestor or replace it.



WARNING

When cleaning the spark arrestor, you must follow the safe guards listed below to avoid serious injury.

- Do not perform this operation immediately after the engine has been run because the exhaust system becomes very hot.
- Keep combustible materials away from exhaust system. Fire may result.



Catalyst

There is catalyst inside the muffler on all Europe models and some U.S. models.



WARNING

The engine rpm limiter will work at 7500rpm, this may cause excessive fuel to build in the exhaust, and ignited by the catalyst in the muffler, May result in the mufflers overheating and fire risk.

Always back off the throttle when the engine reaches maximum RPM to prevent exhaust popping.

16. Maintenance



CAUTION

Due to the nature of the adjustments marked with a D on the following chart, it is recommended that service be performed by an authorized dealer.

- More often under severe use, such as dirty or wet conditions to purge water or dirt contamination from grease fittings and other critical components.

Periodic Maintenance Schedule

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

Maintenance intervals are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. Vehicles subjected to severe use, such as operation in wet or dusty areas, should be inspected and serviced more frequently.

Inspect, clean, lubricate, adjust or replace parts as necessary.

NOTE: Inspection may reveal the need for replacement parts. Always use genuine parts available from your dealer.

Service and adjustments are critical. If you are not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance chart key

Symbol	Description
I	Inspect
A	Adjust
R	Replace
C	Clean

The maintenance interval charts below apply to normal use in a clean environment.

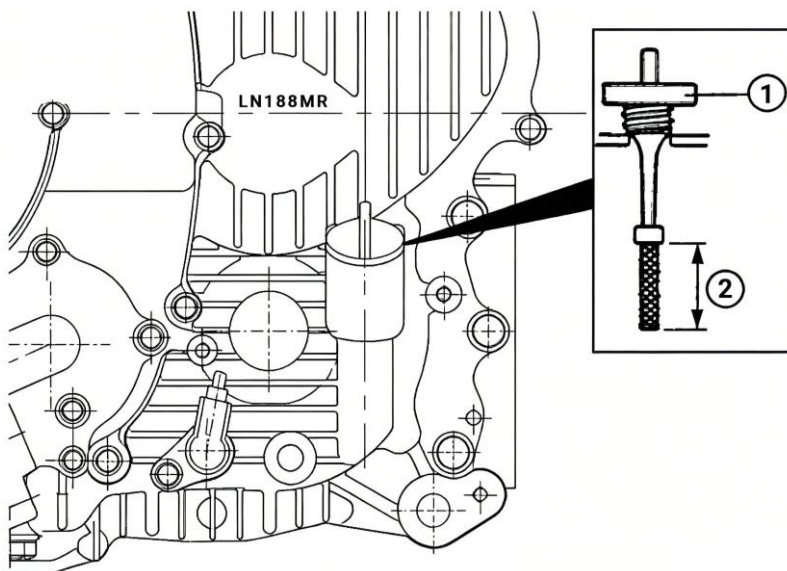
Maintenance period Items	Odometer (km)											
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	Everyday check before riding
Engine Oil	R		R		R		R		R		R	I
Oil Filter	C				C				R			
Air filter	Clean filter every 4000 km. Change it when necessary											
Valve gap				A					A			
Fuel Filter		R		R			R		R			
Brake System		I		I			I			I		I
Fasteners (Excluding Engine Bolt)	T				T				T			

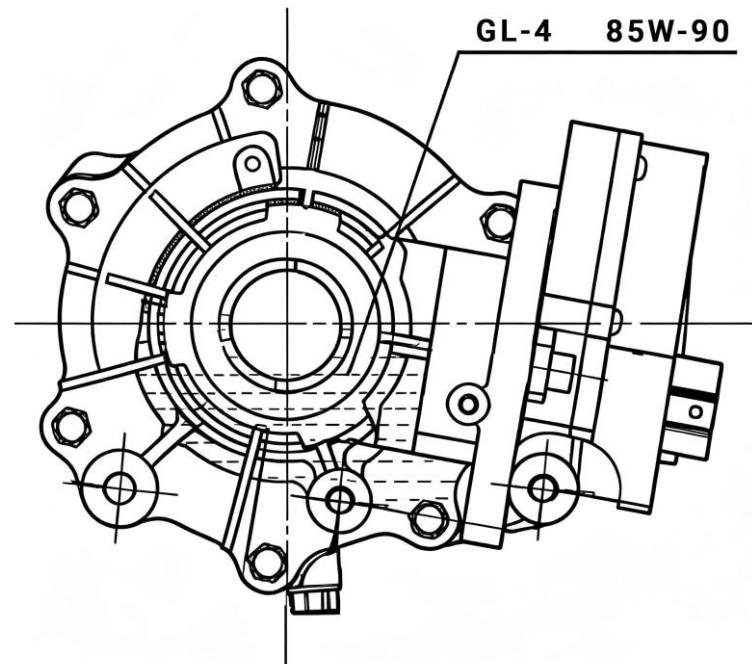
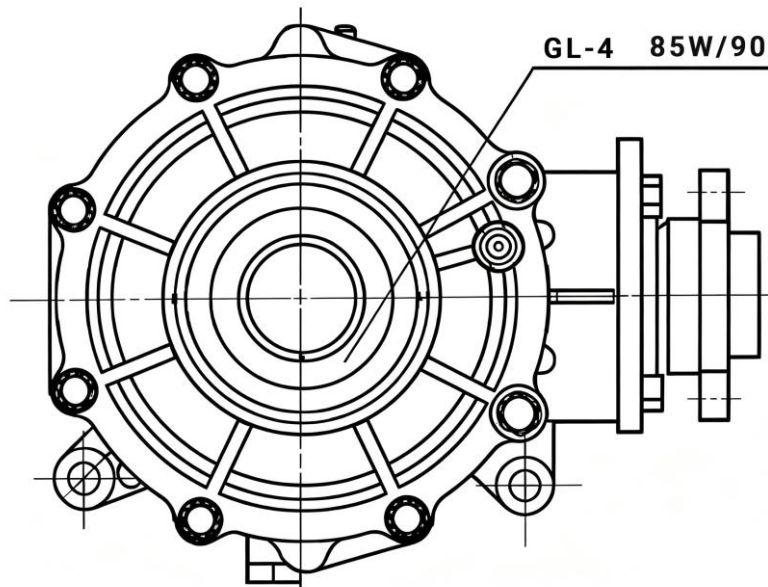
Item	Hours	When	Remarks
Brake System	Pre-ride	Pre-ride	Pre-ride inspection item
Auxiliary Brake	Pre-ride	Pre-ride	Pre-ride inspection item
Tires	Pre-ride	Pre-ride	Inspect daily, pre-ride inspection item
Wheels	Pre-ride	Pre-ride	Pre-ride inspection item
Frame nuts, bolts fasteners	Pre-ride	Pre-ride	Pre-ride inspection item
Air Filter-Pre-Cleaner	Daily	Daily	Inspect-Clean
Coolant/Level Inspection	Daily	Daily	Replace engine coolant Every two year
Air Box Sediment Tube	Daily	Daily	Drain deposits whenever visible
Headlamp Inspection	Daily	Daily	Check operation daily; apply dielectric grease to connector when replaced
Tail lamp inspection	Daily	Daily	Check operation daily; apply dielectric grease to socket when replaced
Air Filter-Main Element	Weekly	Weekly	Inspect—Replace if necessary
Battery	20 Hrs	Monthly	Check/clean Terminals; check fluid level
Brake pad wear	10 Hrs	Monthly	Inspect periodically
Rear-Gear case Oil	100 Hrs	Monthly	Check monthly and change annually
Front-Gear case Oil (Only for 4WD)	100 Hrs	Monthly	Check monthly and change annually
Engine Cylinder Head and Cylinder Base Fasteners	25 Hrs	3 months	Inspect (re-torque required at first service only)
General Lubrication	50 Hrs	3 months	Lubricate all fittings, pivots, cables, etc.
Engine Oil-Level/Change	30 Hrs	3 months	Check Level Daily; Break-in Service at 1 month. Change oil more often in cold weather use.
Oil Filter	50 Hrs	6 months	Inspect-clean
Engine breather hose	100 Hrs	6 months	Inspect
Throttle Cable	50 Hrs	6 months	Inspect — adjust, lubricate, replace if necessary;
Coolant strength	100 Hrs	6 months	Inspect strength seasonally
Shift linkage	50 Hrs	6 months	Inspect, adjust
Drive belt	50 Hrs	6 months	Inspect, replace if necessary
Steering	50 Hrs	6 months	Inspect daily, lubricate
Front Suspension	50 Hrs	6 months	Inspect-lubricate, tighten fasteners
Rear Suspension	50 Hrs	6 months	Inspect, tighten fasteners
Spark Plug	100 Hrs	12 months	Inspect-replace if necessary
Ignition Timing	100 Hrs	12 months	Inspect
Fuel System	100 Hrs	12 months	Check for leaks at tank cap, lines, filter. Replace lines every one year
Fuel Filter	100 Hrs	12 months	Replace annually
Radiator	100 Hrs	12 months	Inspect/clean external surface
Cooling System hoses	50 Hrs	6 months	Inspect/replace if necessary
Spark arrestor	10 Hrs	monthly	Replace if necessary

Item	Hours	When	Remarks
Clutches (drive and driven)	25 Hrs	3 months	Inspect, clean
Engine mounts	25 Hrs	3 months	Inspect
Valve clearance	100 Hrs	12 months	Inspect/adjust
Shift selector box (H/L/R/N)	200 Hrs	24 months	Change grease every two years
Brake fluid	200 Hrs	24 months	Change every two years
Idle Speed	As required	As required	Adjust
Toe adjustment	As required	As required	Periodic inspection, adjust when parts are replaced
Headlight Aim	As required	As required	Adjust if necessary

Lubrication Recommendations

Item	Lube Rec	Method	Frequency
1. Engine Oil	SAE15W/40SG	Add to proper level on dipstick	Check level daily
2. Brake Fluid	DOT 3 Only	Maintain level Between fill lines. See "7. CONTROL"	As require; change every two years or 200 hours
3. Rear Gear case oil	SAE GL-4 85W/90	See "16. MAINTENANCE/Rear Gear-case Lubrication"	Change annually or at 100 hours
4. Front Gear case oil	SAE GL-4 85W/90	See "16. MAINTENANCE/Front Gear-case Lubrication"	Change annually or at 100 hours

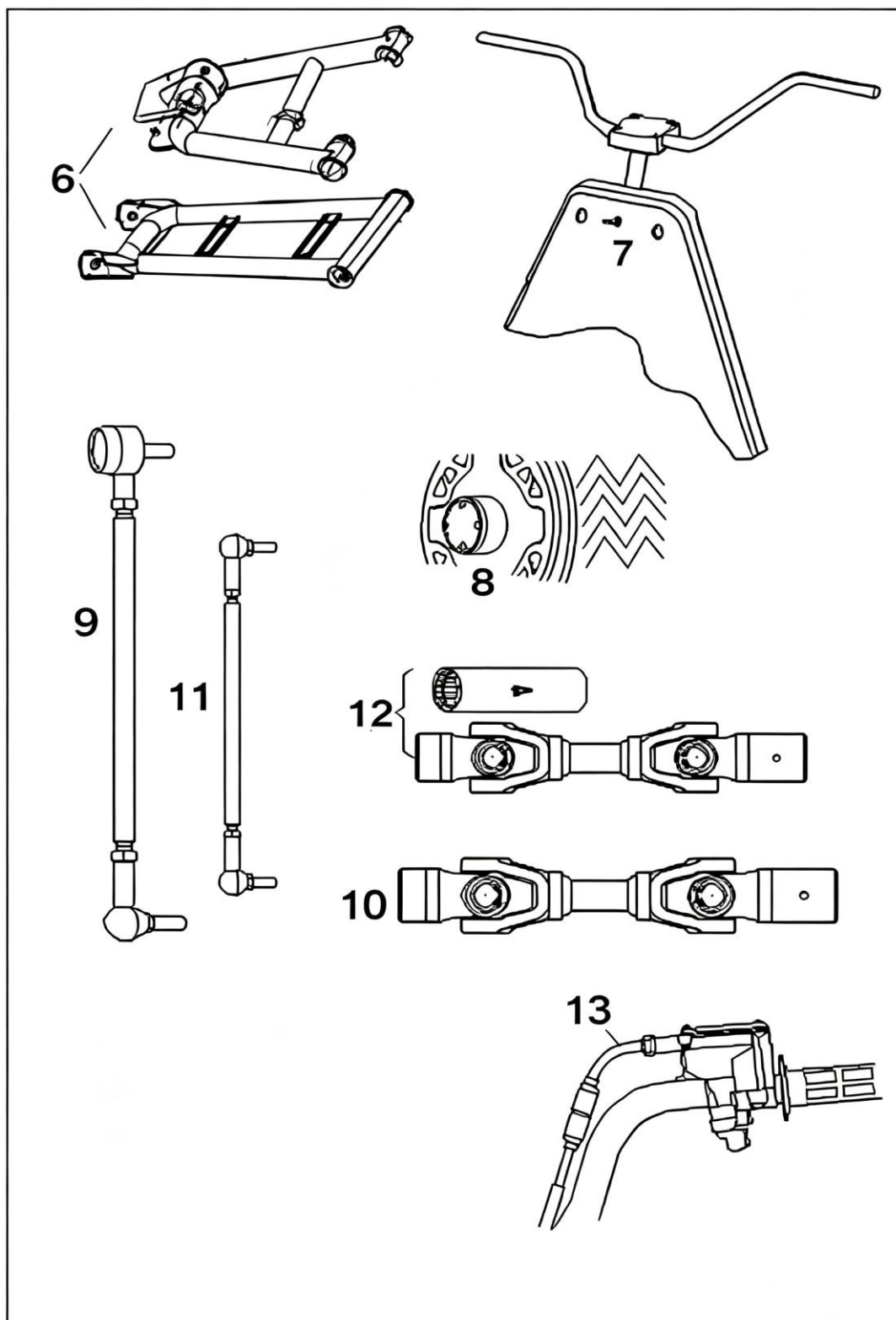




Lubrication Recommendations

Item	Lube Rec	Method	Frequency
5. Front A-arm pivot Shaft	Grease	Locate fitting on pivot shaft and grease with grease gun	Every 3 months or 50 hours
6. Steering Post Bushings	Grease	Locate fitting on pivot shaft and grease with grease gun	Every 3 months or 50 hours
7. Front/Rear Wheel bearings	Grease	Inspect and replace bearings if necessary	Semi-annually
8. Tie rods	Grease	Locate fittings and Grease	Semi-annually
9. Front/Rear Prop Shaft & Shaft Yoke	Grease	Locate fittings and Grease	Semi-annually
10. Ball joints	Inspect	Inspect and replace it if necessary	Semi-annually
11. Prop Shaft & Shaft Yoke	Grease	Locate fitting and Grease	Semi-annually

Item	Lube Rec	Method	Frequency
12. Throttle Cable	Grease M	Grease, inspect and replace it if necessary	Monthly or 20 hours
13. Rear Axle Bearing (on swing arm model)	Grease	Locate fittings and grease	Every 3 months or 50 hours
14. Swing Arm Bearing (on swing arm model)	Grease	Locate fittings and grease	Monthly or 20 hours



NOTE

1. More often under severe use, such as wet or dusty conditions.
2. Grease: Light weight lithium-soap grease.
3. Grease M: molybdenum disulfide (MoS₂) grease (water resistant).
4. When suspension action becomes stiff or after washing.
5. Hours are based on 10 mph(16Km/h) average.

Periodic Maintenance Record

Use the following chart to record periodic maintenance work:

Maintenance Interval Performed	Servicing Date	Servicing Dealer or Person	Remarks
First 5 Hrs			
10 Hrs			
15 Hrs			
20 Hrs			
25 Hrs			
50 Hrs			
75 Hrs			
100 Hrs			



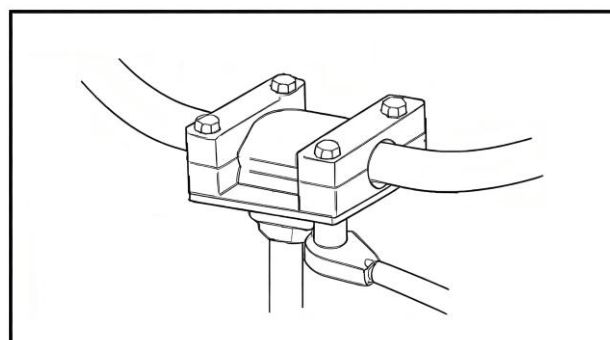
WARNING

Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and possible serious personal injury or death.

Handlebar Adjustment

Your ATV has handlebars which can be adjusted for your personal fit.

1. Remove the handlebar cover.
2. Loosen the four bolts.
3. Adjust handlebar to desired height. Be sure handlebars do not hit gas tank or any other part of machine when turned fully to left or right.
4. Torque handlebar adjuster block to 17 ft.lbs(23Nm).



NOTE: Tighten bolts so there is an equal gap at the front and rear of the handlebar block. Improper gap will result in improper fit of upper pod.

The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.

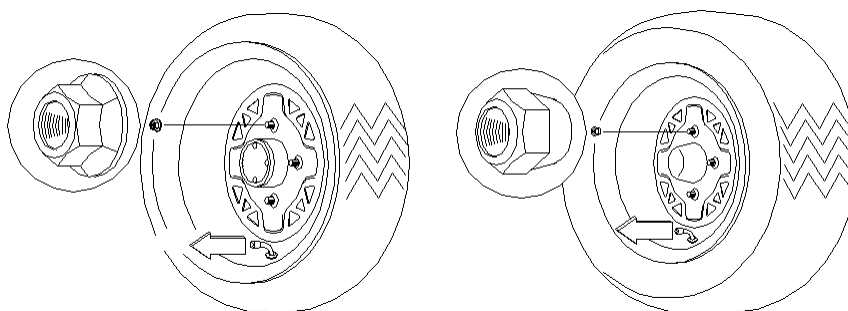
Wheel Nut Torque Specifications

Bolt Size	Specification	
Front (ALUMINIUM WHEEL) M12X1.25	70Ft.Lbs	96N.m
Rear (ALUMINIUM WHEEL) M12X1.25	70Ft.Lbs	96N.m

NOTE: All nuts that have a cotter pin installed must be serviced by an authorized Dealer.

Front Wheel Hub Tightening

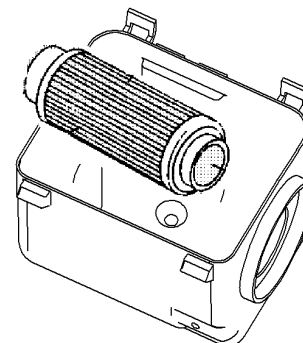
Front wheel bearing tightness and spindle nut retention are critical component operations. Service work must be performed by an authorized dealer.



Tapered nuts: install with tapered side against wheel.

Air Filter Service

1. Remove seat.
2. Release clips and remove Cover.
3. Loosen clamp and remove Filter.
4. Reinstall filter. Replace filter as required.
5. Reinstall filter into air box and tighten clamp. Do not over tighten clamp or filter damage may occur.



Steering Inspection

The steering assembly of the machine should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, have your dealer tighten them before riding your vehicle.

Camber and Caster

The camber and caster are non-adjustable.



WARNING

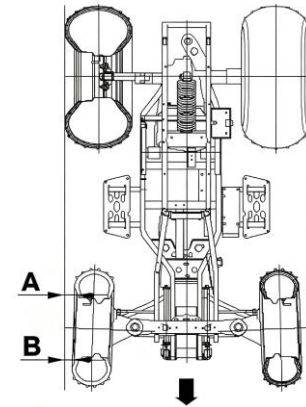
Do not attempt to adjust the tie rod for toe alignment. Severe injury or death can result from improper adjustment.

Contact your authorized dealer. They possess the professional training and specialized tools required to carry out these adjustments.

Toe Alignment Check

The recommended toe alignment is 1/8" to 1/4" (3 to 6mm) toe out.

1. Set the handlebars in a straight-ahead position and hold them in place.
2. Measure A and B, A minus B should be 1/16" to 1/8" (1.5 to 3mm).
3. If this measurement needs to be adjusted, contact your dealer for service.



Front Brake



WARNING

Once a bottle of brake fluid is opened, use what is necessary and discard the rest. Do not store or use a partial bottle of brake fluid.

Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. This causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of serious injury.

The front brake is a hydraulic disc brake which is activated by depressing the foot pedal on the side of the right floorboard. These brakes are self-adjusting and require no adjustment.

The following checks are recommended to keep the brake system in good operating condition. How often they need checking depends upon the type of driving that has been done.

- Keep fluid level in the master cylinder reservoirs as described see "7. Control and Parts Functions". Normal functioning of the diaphragm is to extend into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is indicated and the diaphragm should be replaced. Always fill the reservoir as indicated whenever the cover is loosened or removed to insure proper diaphragm operation. Use DOT 3 brake fluid.
- Check brake system for fluid leaks.
- Check brake for excessive travel or spongy feel.
- Check friction pads for wear, damage and loosened.
- Check security and surface condition of the disc.
- Pads should be changed when friction material is worn to 3/64" (1mm) (A).

Rear and Auxiliary Brake

Rear Brake

The rear brake is a hydraulic disc brake actuated by the same pedal used for the front brake. It is self-adjusting and requires no maintenance except regular wear checks on the brake pads,

- Pads should be changed when the friction material is worn to 3/64" (1mm).
- Inspect the brake disc spline and pad wear surface for excessive wear.

Auxiliary Brake Systems

Your ATV's auxiliary brake system is intended to be used as a backup for the main brake system. Should the main system fail, the rear brake can be activated by the brake lever being moving toward the handlebar. The hydraulic brake system will not require

adjustment.

NOTE: This brake serves only the rear wheels; therefore, it cannot deliver the same braking efficiency as the full all-wheel brake system.

Checking

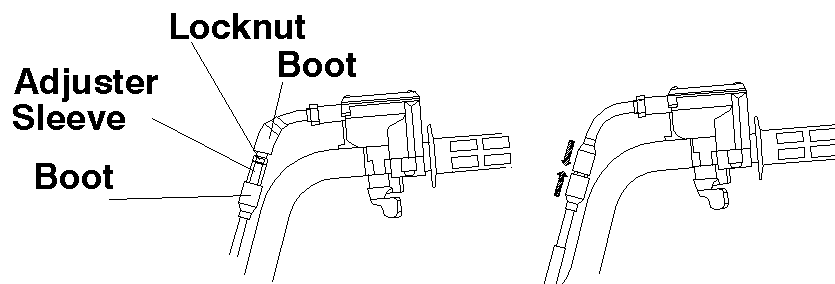
Although the parking brake has been adjusted at the factory, the brake should be checked for proper operation. The mechanical brake must be maintained to be fully functional.

1. With the engine off, apply the parking brake lever and attempt to move the ATV.
2. If the rear wheels are locked, it is adjusted properly.
3. If the wheels are not locked, it must be adjusted.

Throttle Cable Free Play Adjustment

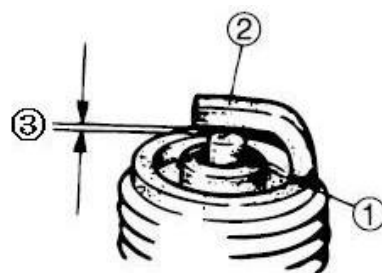
Throttle cable free play is adjusted at the handlebar.

1. Slide the boots off the in-line cable adjuster. Loosen the adjuster locknut.
2. Turn adjuster until 1/16" to 1/8" (2 to 3mm) free-play is achieved at thumb lever. NOTE: While adjusting free-play, it is important you flip the throttle lever back and forth.
3. Tighten locknut and slide boots over cable adjuster.



Spark Plugs

- Inspect: Insulator ①
Abnormal color: Replace. Normal color is a medium-To-light tan color.
- Electrode ②Wear/damage: Replace. Clean.
- Spark plug
(with spark plug cleaner or wire brush) Measure.
- Spark plug gap ③Out of specification: Adjust gap.



Standard spark plug DPR7EA-9(NGK)

③ Gap:0.8-0.9mm

Spark Plug Removal and Replacement



WARNING

Never attempt to remove a spark plug while the engine is warm. The exhaust system or engine could burn you causing severe injury.

Remove the spark plug by rotating counterclockwise.

Reverse the procedure for spark plug installation. Torque to 17ft.lbs (23N.m).

Oil and Filter Change

The recommended oil change interval is 30 hours, or every 3 months, whichever comes first. Suggested break in oil change is at 20 hours, or one month, whichever comes first. Severe use operation requires more frequent service. Severe use includes continuous duty in dusty or wet conditions, and cold weather riding.

NOTE

Severe use cold weather riding is all riding below

10°F(-12°C), and riding between 10°F (-12°C) and 30°F (0°C) when most trips are slow speed and less than 5 mph (8km/h). Be sure to change the oil filter whenever changing oil



CAUTION

Oil may be hot. Do not allow hot oil to come into contact with skin as severe burns may result

1. Place vehicle on a level surface;
2. Run engine two or three minutes until warm, Stop engine;
3. Clean area around drain plug;
4. Place a drain pan beneath engine crankcase and remove drain plug;
5. Allow oil to drain completely;
6. Reinstall drain plug and torque to 18ft.lbs (25N.m)

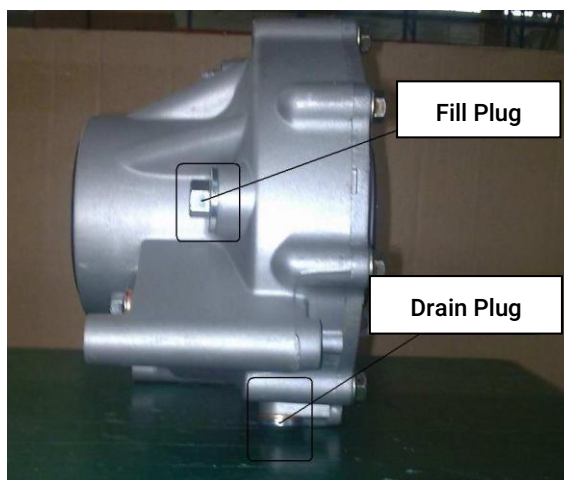
Rear Gearcase Lubrication

Be sure no foreign material enters the gear case.

With the ATV on a level surface, remove fill plug and visually inspect the lubricant level through the fill hole. Lubricant should be kept even with the center of the drill point approximately below the top of the fill hole.

NOTE: Do not add lubricant to the bottom of the fill plug threads. The correct gearcase lubricant to use is SAE GL-4 85W/90 Weight Gear Lube.

Oil Changing Procedure



1. Remove the drain plug. Catch and discard used oil properly.
2. Clean and reinstall the drain plug with a new sealing washer and tighten securely (14 ft. lbs/20N.m).
3. Remove the fill plug and add 10 ounces (300ml) of SAE GL-4 85W/90 Weight Gear Lubricant and inspect oil level. Oil level should be kept even with the center of the drill point (approximately below the top of the fill hole).
4. Reinstall the fill plug. Tighten securely (24.5 ft. lbs/35N.m).
5. Check for leaks.

Front Gearcase Lubrication



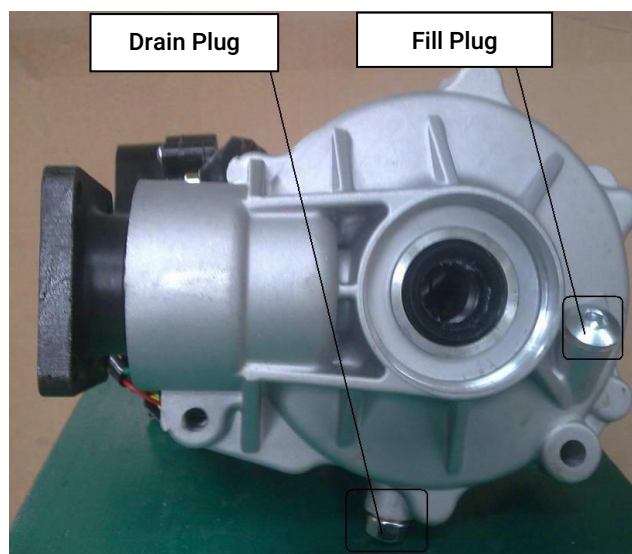
CAUTION

Be sure no foreign material enters the gear case.

With the ATV on a level surface, remove fill plug and visually inspect the lubricant level through the fill hole. Lubricant should be kept even with the center of the drill point approximately below the top of the fill hole.

NOTE: Do not add lubricant to the bottom of the fill plug threads. The correct gearcase lubricant to use is SAE GL-4 85W/90 Weight Gear Lube.

Oil Changing Procedure



1. Remove the drain plug. Catch and discard used oil properly.
2. Clean and reinstall the drain plug with a new sealing washer and tighten securely (14 ft. lbs/20N.m).
3. Remove the fill plug and add 11 ounces (330ml) of SAE GL-4 85W/90 Weight Gear Lubricant and inspect oil level. Oil level should be kept even with the center of the drill point (approximately below the top of the fill hole).
4. Reinstall the fill plug. Tight securely (24.5 ft. lbs/35N.m).
5. Check for leaks.

⚠ WARNING

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tire will affect vehicle handling which could cause an accident resulting in serious injury or death.

Follow the safeguards listed below to prevent this type of situation.

Important Safeguards

Maintain proper tire pressure according to charts below. Improper tire inflation may affect ATV maneuverability.

Do not use improper tires. The use of non-standard size or type tires may affect ATV handling.

Make certain the wheels are installed properly. If wheels are improperly installed it could affect vehicle handling and tire wear.

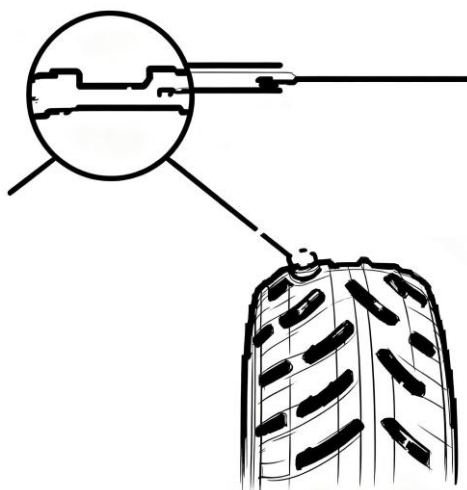
Wheel Removal Procedure

1. Stop the engine, place the transmission in gear and lock the parking brake.
2. Loosen the wheel nuts slightly.
3. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
4. Remove the wheel nuts and remove the wheel.

Tire Pressure	
front	rear
48kPa/7PSI	48kPa/7PSI

Wheel Installation

1. With the transmission in gear and the parking brake locked, place the wheel in the correct position on the wheel hub. Be sure the valve stem is toward the outside and rotation arrows on the tire point toward forward rotation.
2. Attach the wheel nuts and finger tighten them.
3. Lower the vehicle to the ground.
4. Securely tighten the wheel nuts according to the chart found in



Tire Inspection

When replacing a tire always use original equipment size and type.

Tire Tread Depth

Always replace tires when tread depth is worn to 1/8" (3mm) (1) or less. Please refer to your Owner's Manual for tire specifications.

High and Low Beam



WARNING

If the vehicle stopped for a long time, turn off the high and low light.

Headlight Lamp Replacement

Keep your headlights and taillights clean. Insufficient lighting during riding may lead to accidents that can cause severe injury or death.

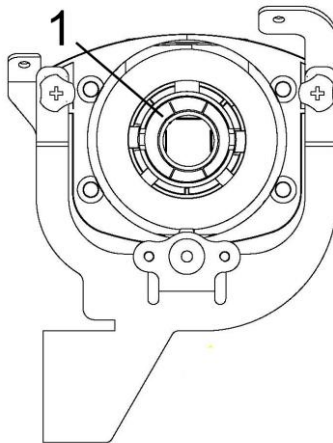


CAUTION

Do not service while headlight is hot. Serious burns may result.

Do not touch a halogen lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot which will shorten the life of the lamp.

Lamp Replacement



1. Use bulb 12V 35W/35W.
2. Pull the cable plug off the conducting strip in the socket.
3. Turning the headlight rear cover ① counterclockwise is to open the cover.
4. Change the bulb.

Taillight /Brake light Lamp Replacement

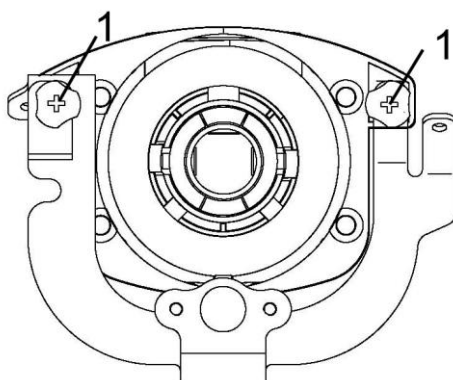
If the taillight / brake light does not work the lamp may need to be replaced.

1. Remove lamp and replace it with recommended lamp.
2. Test the taillight/ brake light to see that it's working.

High beam Headlight Adjustment

The High beam headlight can be adjusted up and down.

1. Place the vehicle on a level surface with the headlight approximately 10'(3m) from a wall.
2. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
3. Start the engine and turn the headlight switch to high beam.
4. Observe headlight aim. The most intense part of the headlight beam should be aimed 2.8" (71mm) below the mark placed on the wall in step 2. NOTE. Riding weight must be included on the seat.
5. To turn the two adjusting bolt ① clockwise is to heighten the beam area and to turn the two adjusting bolt ① counterclockwise is to lower the beam area.



The low-beam headlight adjustment is the same as the high-beam adjustment.

Cleaning Your ATV

Keeping your ATV clean will extend the life of various components.

Washing

Never use a high-pressure type car wash system, it can damage to the wheel bearings, transmission seals, body panels, brakes and warning labels, and water might enter the engine or exhaust system.

The best and safest way to clean your ATV is with a garden hose and a pail of mild soap and water. Use a professional type washing mitten, cleaning the upper body first and lower parts last. Rinse with water frequently and dry with a chamois to prevent water spots. NOTE: If warning labels are damaged, contact your dealer for replacement.

Waxing

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



CAUTION

Certain products, including insect repellants and chemicals, will damage plastic surfaces. Care must be taken when using these products on plastic surfaces.

Storage Tips

Do not start the engine during the storage period. This will disturb the protective film created by fogging.

Cleaning—Clean the ATV thoroughly.

Oil Add and Filter Change—Warm the engine and change oil and filter.

Air Filter/Air Box—Inspect and clean or replace the pre-cleaner and air filter. Clean the air box and drain the sediment tube.

Inspect All Fluid Levels—Inspect the following fluid levels and change if necessary: transmission; brake fluid (change every two years or as required if fluid looks dark or contaminated).

Fog the Engine—Spray a light oil into the cylinder through the spark plug hole.

Check and Lubricate Cables/Grease—Inspect all cables and lubricate.

Battery Maintenance—Remove the battery and add distilled water as required to the proper level. Do not use tap water which may contain minerals that reduce battery life. Apply Dielectric Grease to the terminal bolts and terminals. Charge the battery.

Storage Area/Covers—Set tire pressure and safely support the ATV with the tires 1-2" (25-50mm) off the ground. Be sure the storage area is well ventilated. Cover the machine with an ATV cover.

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

Transporting

Whenever the ATV is to be transported the following measures should be taken.

1. Turn off the engine and remove the key.
2. Turn the fuel valve to off.
3. Be certain the fuel cap, oil cap, and seat are installed correctly.
4. Always tie the frame of the ATV to the transporting vehicle, securely, using suitable straps or rope.
5. Always place the transmission in gear and lock the parking brake.

17. Troubleshooting

Issues of Improper Operation Driven Clutch (CVT) Burning

Possible Causes	Solutions
Loading the ATV into a pickup or tall trailer when in high range.	Shift transmission to Low Range during loading of the ATV to prevent belt burning.
Starting out going up a steep incline	When starting out on an incline, use low range, or dismount the ATV after first applying the park brake and perform the "K" turn as described in this manual.
Driving at low RPM or low ground speed (at approximately 3-7MPH/ 5-12km/h)	Drive at higher speed or use low range. The use of low range is highly recommended for cooler CVT operating temperatures and longer component life.
Insufficient warm-up of ATV's exposed to low ambient temperatures.	Warm engine at least 5 min., then with transmission in neutral, advance throttle to approx. 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow and easy clutch engagement.	Fast, effective use of the throttle for efficient engagement.
Towing /Pushing at low RPM/low ground speed.	Use Low Range only.
Stuck in mud or snow.	Shift the transmission to Low Range carefully use fast, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position.	Shift the transmission to Low Range carefully use fast, brief, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.

Battery Weak

Possible Cause	Solutions
Starting a faulty engine for long time	See "8. STARTING THE ENGINE" And check the fuel/ air/ ignition/ compression system
Leaving the main switch (key) on while parking the ATV	When stopping the engine, turn off the main switch (key) at once



WARNING

This ATV is equipped with an EFI system, If the battery is under 12 Volts, the engine will not start.

NOTE:

The following troubleshooting does not cover all the possible causes of trouble. It should be helpful, however, as a guide to troubleshooting. Refer to the relative procedure in this manual for inspection, adjustment and replacement of parts. Adjustment and replacement must be done by your dealer.

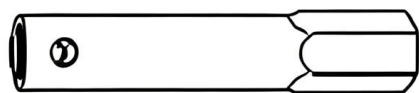
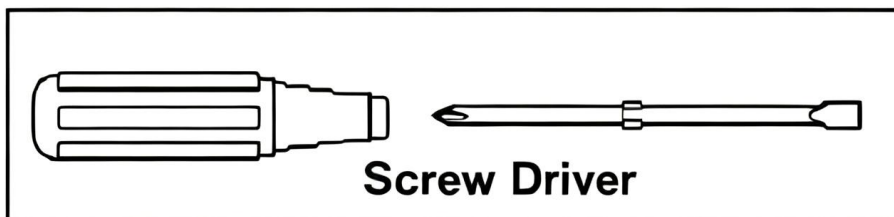
Problem/Issue	Parts Inspection		Possible Causes
Starting Failure / Hard Starting	Fuel System	Fuel tank	• Empty • Clogged fuel tank breather pipe • Deteriorated fuel or fuel containing water or foreign material • fuel filter clogging • the fuel pressure not correct
		Throttle body	• The connect not good
		EFI	• Deteriorated fuel or fuel containing Water or foreign material • Clogged pilot jet • Clogged air passage • Improperly set pilot air screw • Clogged pilot air passage • Improperly sealed valve seat • Improperly adjusted fuel level • Clogged starter jet • Sucked-in air
		Air cleaner	• Clogged air cleaner element • Improper air cleaner setting
	Compression System	Cylinder and cylinder head	• Loose spark plug • Loose cylinder head • Broken cylinder head gasket • Broken cylinder gasket • Worn, damaged or seized cylinder
		Piston and Piston ring	• Worn piston • Worn/fatigued or broken piston ring • Seized piston ring • Seized or damaged piston
		Valve system	• Improperly adjusted clearance • Improperly sealed valve • Improperly contacted valve and valve seat • Improper valve timing • Broken valve spring • Seized valve
	Ignition System	Battery	• Improperly charged battery • Faulty battery
		Ignition system	• Faulty ignitor unit • Faulty pick up coil • Broken magneto woodruff key
		Fuse	• Burnt out, improper connection
		Spark plug	• Improper plug gap • Worn electrodes • Wire between terminals broken

Problem/Issue	Parts Inspection		Possible Causes
			• Improper heat range • Faulty spark plug cap
		Switch	• Faulty main switch • Faulty "ENGINE STOP" switch • Faulty brake switch
		Ignition coil	• Broken or shorted primary/secondary coil • Faulty high tension cord • Broken ignition coil body
		Wiring	• Loose battery terminal • Loose coupler connection • Improperly grounded • Broken wire harness
Poor Idle Speed Performance	EFI		• the fuel pressure not correct • fuel injector clogging • fuel filter clogging
Poor Medium and Highspeed Performance	EFI		• the fuel pressure not correct • fuel filter clogging • fuel injector clogging
Poor Speed Performance	Ignition system		• Dirty spark plug • Improper heat range • Faulty igniter unit • Faulty pickup coil
	Compression system		• Worn cylinder • Worn or seized piston ring • Cylinder head gasket broken • Cylinder gasket broken • Carbon deposit buildup • Improper adjusted valve clearance • Improper contacted valve and valve seat • Faulty valve timing
	Fuel system		• Clogged fuel tank breather hole • Clogged air cleaner element • Clogged jet • Improperly adjusted fuel level • Improper carburetor air vent hose setting • the fuel pressure not correct • fuel filter clogging
	Clutch		• Refer to "CLUTCH SLIPPING / DRAGGING" section
	Engine oil		• Improper oil level (low or over oil level)
	Ignition system		• Faulty spark plug • Faulty high tension cord

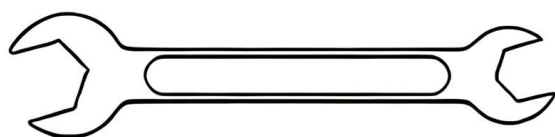
Problem/Issue	Parts Inspection	Possible Causes
		- Faulty ignitor unit - Faulty pickup coil - Faulty ignition coil
	Valve system	Improperly adjusted valve clearance
Over-Cooling	Cooling system	- Faulty thermostat - Faulty thermo switch
Over heating	Ignition system	- Improperly spark plug gap - Improper spark plug heat range - Faulty igniter unit
	Fuel system	- Improper fuel level adjustment - Clogged air cleaner element
	Compression system	- Heavy carbon deposit build-up - Improperly adjusted valve timing - Improperly adjusted valve clearance
	Engine oil	- Incorrect engine oil level - Improper engine oil quality (High viscosity) - Low engine oil quality
	Brakes	Dragging brake
	Cooling system	- Inoperative fan motor - Faulty thermostat - Faulty thermo Switch - Incorrect coolant level (low coolant level) - Faulty radiator (Clogged, damage) - Faulty radiator cap - Impeller shaft gear malfunction (bent dowel pin, gear) - Damaged impeller shaft - Disconnected fan motor connector
Engine runs but ATV cannot move	V Belt	Worn/bent/slipping
	Cam, slider	Worn/damaged
	Compression spring	Damage
	Gears	Damage
Poor Speed Performance	V-belt	- Worn - Oil V belt
	Roller weight	- Worn/improper operation/primary/secondary/sheave - Worn
Clutch slipping	Clutch weight spring	Worn/loose
	Clutch shoe	Worn/damaged
	Primary sliding sheave	Seized
CVT system	Incorrect Primary Clutch Position	Incorrect engine mount (see 13. CVT system)

Problem/Issue	Parts Inspection	Possible Causes
Poor Starting Performance	V-belt	• Slipping/oily V-belt
	Primary sliding sheave	• Improper operation • Damage
	compressing spring	• Worn/loose
	Secondary sliding sheave	• Improper operation • Worn guide pin groove • Worn guide pin
	Clutch shoe	• Worn/ bent
Faulty Brake	Poor braking effect	• Worn front hub bearing • Worn brake pad • Worn brake disc • Air in brake fluid • Leaking brake fluid • Faulty master cylinder kit • Faulty caliper seal kit • Loose union bolt • Broken brake hose • Oily or greasy brake pad • Oily or greasy brake disc

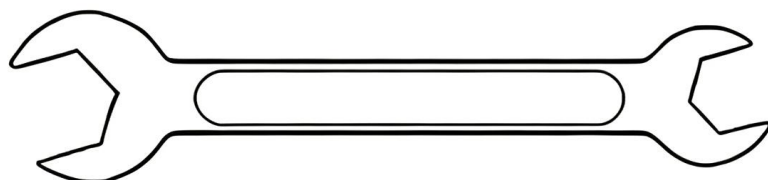
18. Tools



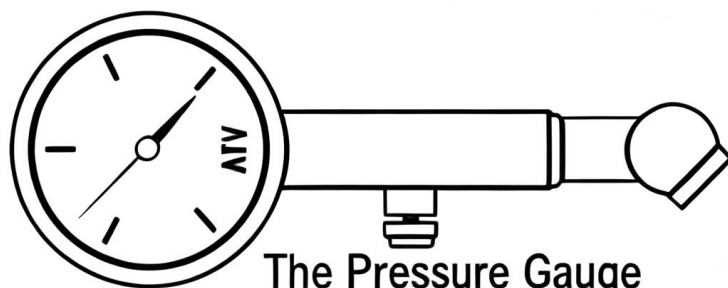
Spark Plug Wrench



Wrench (3,10mm)

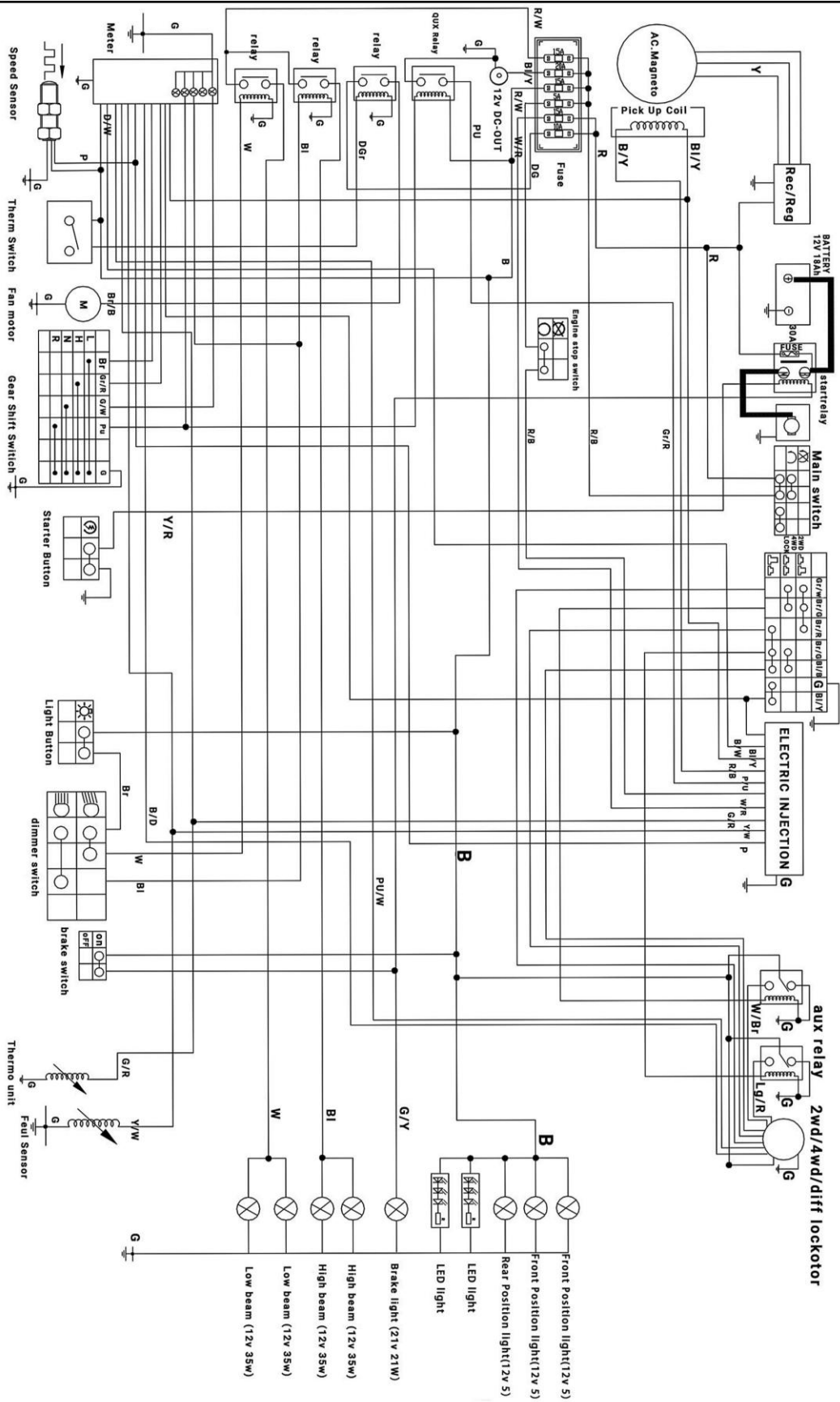


**Wrench
(12.,14mm)**



19. Wiring Diagram

WIRING DIAGRAM



Note	B	Y	P	R	Br	W	Bl	G	G/Bl	G/W	Y/R	B/W	Br/W	G/R	G/Y	B/R	Pu	B/Y	Br/R	Gr	Lg	O	Lbl	G/B	Gr/R	Bl/Y	Bl/W	Br/Y	Pu/W	Dgr
Colour	Black	Yellow	Pink	Red	Brown	White	Blue	Green	Green/Blue	Green/White	Yellow/Red	Black/White	Brown/White	Green/Red	Green/Yellow	Black/Red	Purple	Black/Yellow	Brown/Red	Gray	Light Green	Orange	Light Blue	Green/Black	Gray/Red	Blue/Yellow	Blue/White	Brown/Yellow	Purple/White	Dark green

20. Specification

Model		ATV555	
Fuel capacity		12.5L	3.3 U.S. gal
Engine Oil Capacity		2.2L	0.58 U.S. gal
Ground Clearance		253mm	10 inch
Height		1270mm	50inch
Length		2120mm	83 inch
Width		1185mm	47 inch
Seat height		960mm	37.8 inch
Wheel Base		1270mm	50 inch
Turning Circle Diameter		6500mm	256 inch
Curb weight		371kg	818 lbs
Front Rack		10kg	22 lbs
Rear Rack		20kg	44 lbs
Load Capacity (Combined Rider& Payload)		105kg	232 lbs
Tongue Weight		11kg	24 lbs
Tow Capacity		200kg	441 lbs
Drive System			
Drive System		CVT	
Front Tire		25×8-12	
Rear Tire		25×10-12	
Tire Pressure	front	rear	
	48kPa（7PSI）	48kPa(7PSI)	
Brake System			
Service Brake	Front Brake	Hydraulic Disc	
	Rear Brake		
Parking Brake	All Wheel	Hydraulic Lock	
Auxiliary Brake	Rear Brake	Hydraulic Disc	
Engine			
Engine Type		LH188MR-A, 4Stroke, Single Cylinder, SOHC	
Bore x Stroke		87.5mmX82mm	
Displacement		493cc	
Starter System		Electric Starter	
Engine Cooling		Liquid-Cooled	
Lubrication System		Splash	
Fuel Delivery System		EFI	
Spark Plug Type		DPR7EA-9 (NGK)	
Electrical Equipment			
Battery		12V 20Ah	
Head light		35W/35W	
Brake / Tail Light		LED	

21. Assembly Instructions

1. Open the box



- Press the front bumper of ATV down to release pressure created by the suspension between the ATV and the packaging frame.
- The recommended weight to release the pressure is about 100Kg. (220 lbs).



WARNING

Never unscrew the nuts of the fixing plate without pressing down the front of the ATV.

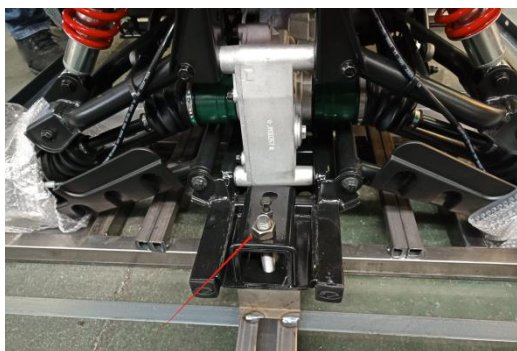


- Loosen the two nuts (1) of the fixing plate gradually and slowly.



WARNING

Press the front of the ATV down when loosening the two nuts to avoid injury.



- Remove the nut.

2. Install the wheels

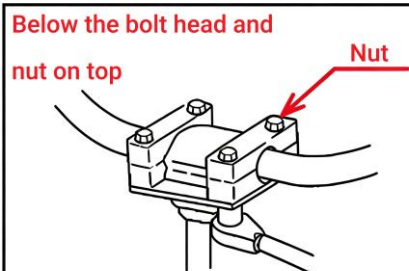


Install the front and rear wheels on the axles after inflating the tires.

- The torque for the front wheels is 70Ft.Lbs. (96N.m)
- The torque for the rear wheels is 70Ft.Lbs. (96N.m)

Ensure that the valve stem is facing towards the outside.

3. Install the handlebar and the meter cover



WARNING

Improper adjustment of the handlebars or incorrect torque of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and possible serious personal injury or death.

- Install the handlebar as shown.
- Adjust handlebar to desired height. Be sure handlebars do not hit gas tank or any other part of machine when turned fully to left or right.
- Torque handlebar adjuster block bolts to 17Ft.Lbs (23N.m).

NOTE: The thickness of the lower handlebar holder is 30mm and that of the upper one 22mm. They cannot be interchanged.



- Install the throttle control and brake lever cylinder on the handlebar and adjust the handlebar parallel to the horizon before tightening the screws.
- Install the dashboard to the handlebar bracket with the 4 screws.



- Secure the dashboard to the bracket with 4 screws.

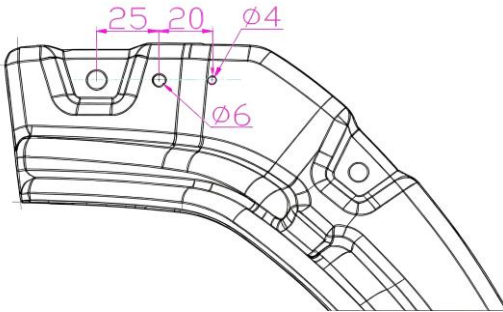
4. Install handlebar cover



- Attach the handlebar cover with 4 screws.



5. Install the front mud bar

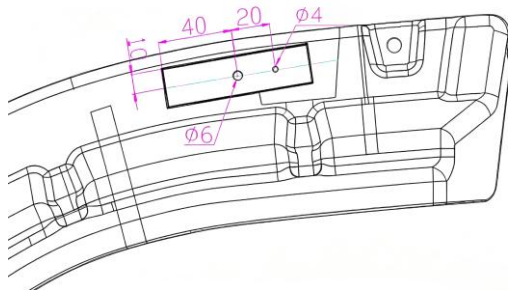


- Install the front mud guard to the front cover by the use of 10 bolts M6x16 and 10 nuts M6.

- Machining holes as shown, Machined $\phi 15$ holes in position $\phi 6$ on the rear guard.

- Install reflector. The reflector needs to be removed from the car.

6. Install the rear mud bar



- Install the rear mud guard to the rear cover by the use of 8 bolts M6x16 and 8 nuts M6.

- Machining holes as shown.

- Install reflector, The reflector needs to be removed from the mounting plate.

7. Stick the red reflection



- Stick the red reflector to the rear mud guard.

8. Install the front rack cover



- Stick the red reflector to the rear mud guard.

9. Install the rear rack cover



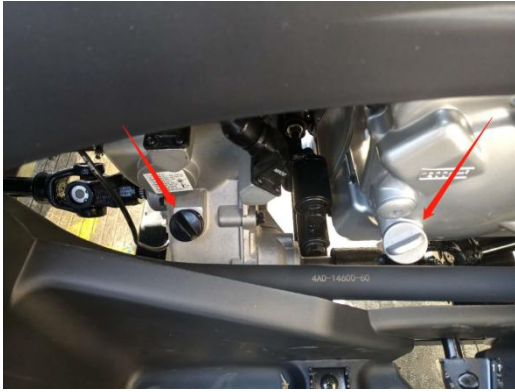
- Install the cover to the front rack by the use of 10 bolts and 10 nuts M6.

10. Connect the battery



- Add battery electrolyte, connect the power cables and fasten the battery with its strap. (See the OWNER'S/OPERATOR'S MANUAL).

11. Check the engine oil and transmission oil



- Check the engine oil and transmission oil
(See the OWNER'S/OPERATOR'S MANUAL).

12. Inspect and test the ATV (See the OWNER'S/OPERATOR'S MANUAL)

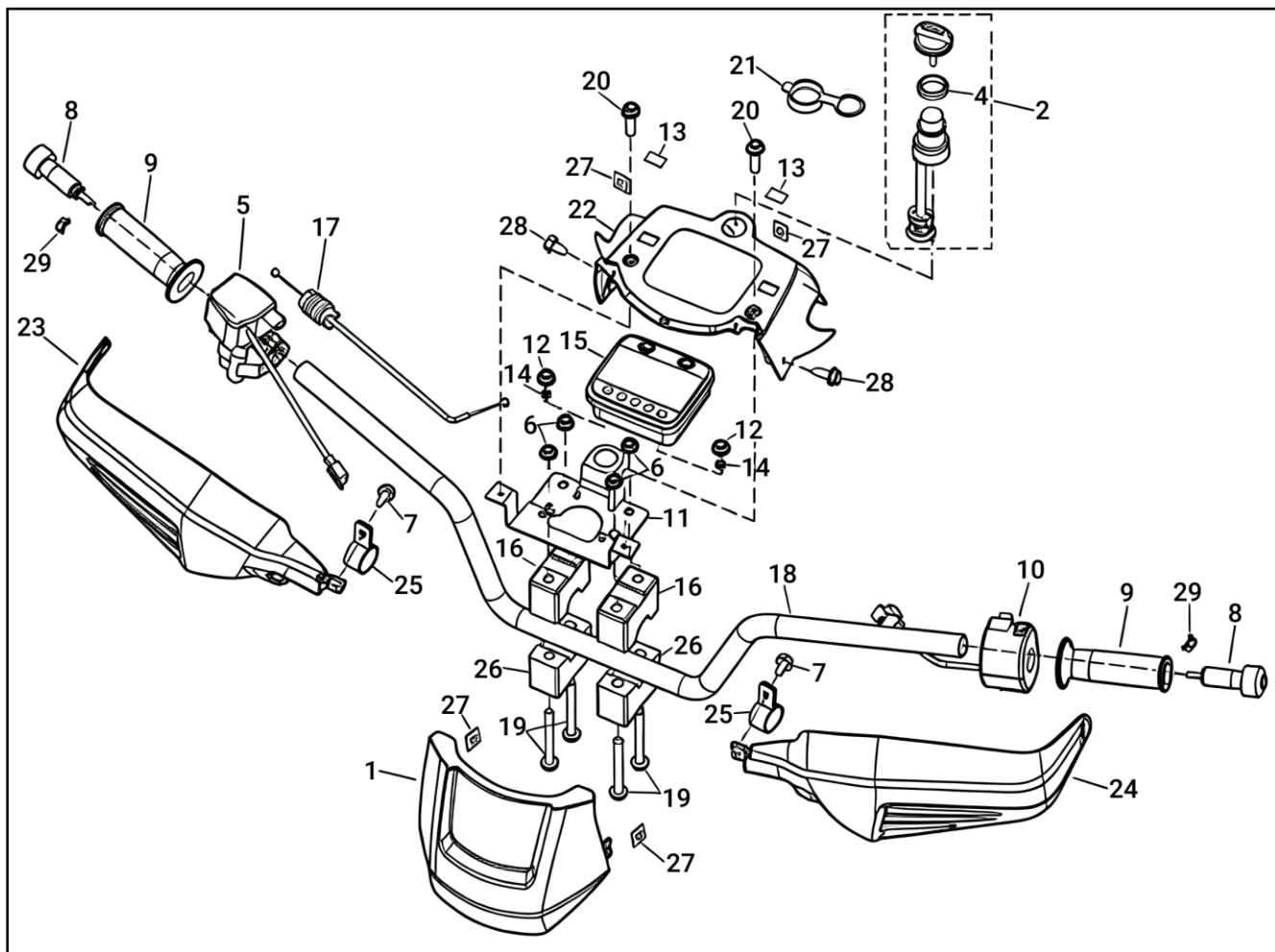
22. Registering Your ATV or UTV in Canada

The following table provides general guidelines for registering your ATV for the first time in Canada. All ATVs should be registered before operating unless otherwise stated in this table. This table includes a list of recommended documents to bring for the registration process. Not all documentation listed may be necessary, but bringing more documentation is always better than not bringing enough.

Province / Territory	Does Your ATV / UTV Need to Be Registered?	Where Do you Register?	Recommended Documents to Bring
British Columbia	Yes. ORVs should be registered within 10 days of purchase. ORVs used on Crown land must be registered and display the registration plate/sticker.	ICBC Autoplan Broker	NVIS/MSO, Bill of Sale, ID, taxes/fees.
Alberta	Yes	Alberta Registry Agent	NVIS/MSO, Bill of Sale, ID, insurance (where applicable). Registration is generally required for public land use.
Saskatchewan	Generally, there is no registration for most ORVs. Please verify local requirements.	N/A (unless a special use requires registration)	Bill of Sale and proof of ownership should be retained.
Manitoba	Yes	Manitoba Public Insurance (MPI)	NVIS/MSO, Bill of Sale, ID, applicable insurance/fees.
Ontario	Yes. Registration should occur within 7 days of your purchase.	ServiceOntario	NVIS, Bill of Sale, ID, taxes. Customer receives an Off-Road Vehicle permit and plate.
Quebec	Yes	SAAQ	NVIS/MSO, Bill of Sale, ID, registration fees.
New Brunswick	Yes	Service New Brunswick	NVIS/MSO, Bill of Sale, ID, fees.
Nova Scotia	Yes	Access Nova Scotia	NVIS/MSO, Bill of Sale, ID, fees.
Prince Edward Island	Yes	Access PEI	NVIS/MSO, Bill of Sale, ID, fees.
Newfoundland & Labrador	Yes. Registration should occur within 10 days of purchase.	Motor Registration Division	NVIS/MSO, Bill of Sale, ID, fees.
Yukon	Yes	Motor Vehicles Office	NVIS/MSO, Bill of Sale, ID, fees.
Northwest Territories	Yes	Driver & Motor Vehicle Office	NVIS/MSO, Bill of Sale, ID, fees.
Nunavut	Yes	Motor Vehicles Division	NVIS/MSO, Bill of Sale, ID, fees.

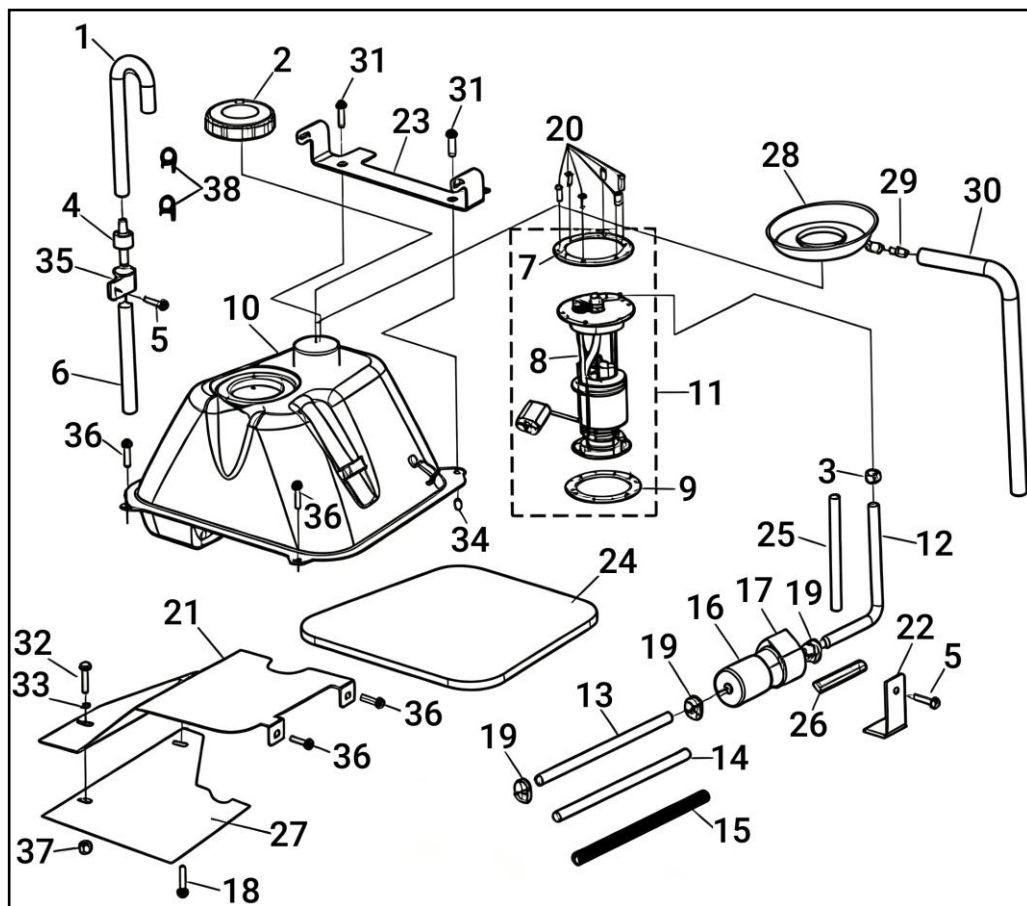
23. Exploded View and Parts List

Handlebar



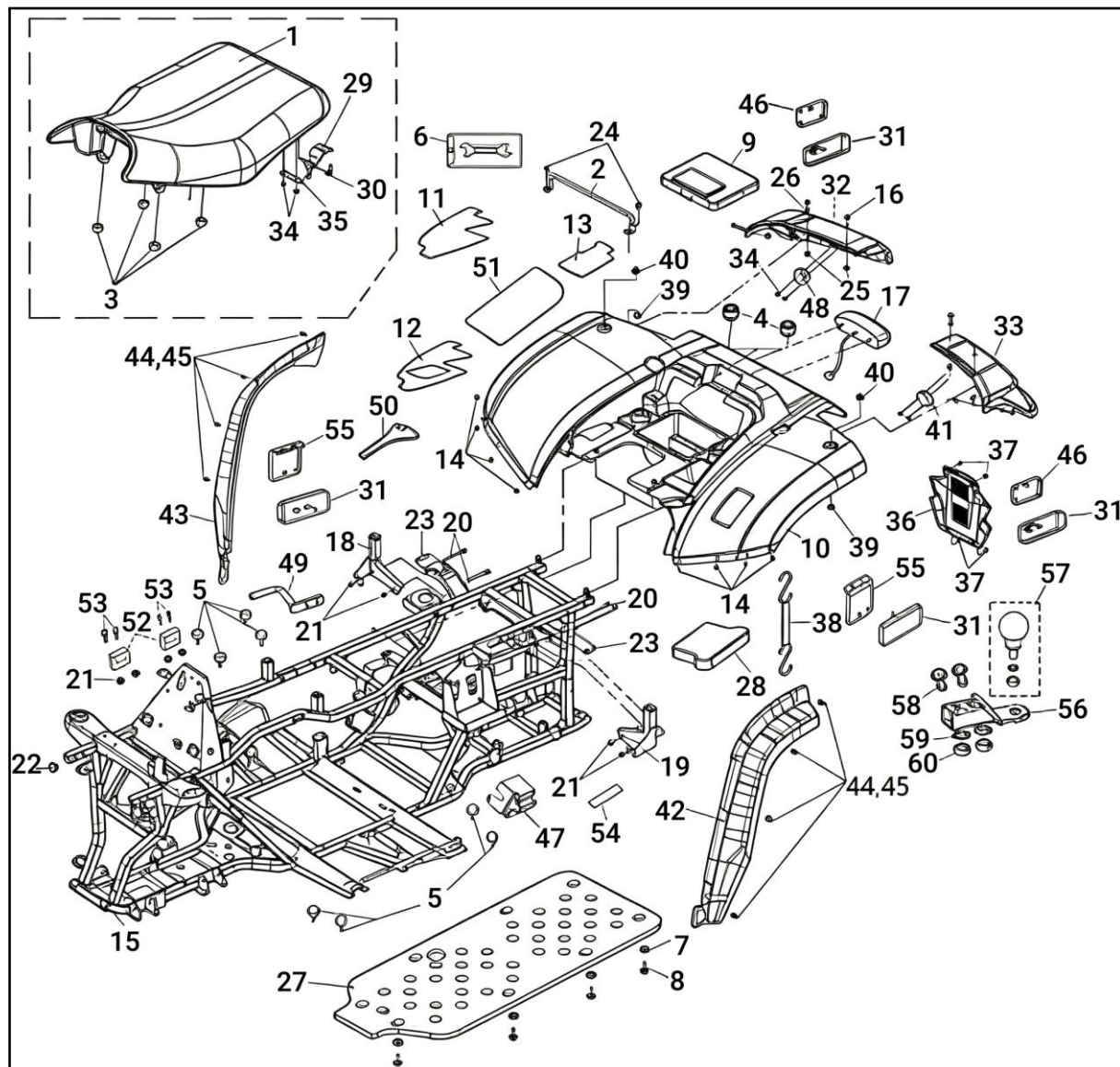
Ref. No.	Part No.	Description	Qty.
1	27415	Front speedometer cover	1
2	27457	Ignition switch with key (used for waterproof)	1
4	25004	Threaded nut	1
5	35734	Throttle control (with 2WD/4WD switch) (within diff-lock)	1
6	11455	Nut M8	4
7	11053	Screw ST4.8X12	2
8	72037	New guard, handlebar end assy. (match with new handlebar)	2
9	36438	Grip	2
10	35090a	Switch assy. (for Europe)	1
11		Speedometer bracket	1
12	11454	Nut M6	2
13	70448	Speedometer cover cap (for Europe)	1
14	70447	Rubber washer	2
15		Lcd speedometer	1
16	20112a	Handlebar clamp	2
17	36485	Throttle cable	1
18	27385E	Handlebar	1
19	11068	Bolt M8X80	4
20	11529	Screw M5X16	2
21	27257	Ignition switch cover	1
22		Speedometer cover	1
23	27417	Handlebar cover right	1
24	27418	Handlebar cover left	1
25	27419	Handle cover installation belt	2
26	36437	Handlebar down clamp	2
27	22346	Nut ST4.8	4
28	10520	Screw ST4.8X12	4
29	27844	Hexagonal nut and conical gasket combination	2

Fuel Tank



Ref. No.	Part No.	Description	Qty.
1	71418a	Tube($\varphi 6.35 \times \varphi 12.7 \times 440$)	1
2	25842	Fuel cap	1
3	84428	Single ear clamp($\varphi 4.5$)	1
4	25037	Valve, tank, fuel	1
5	10971	Bolt M6X10	2
6	70734	Tube	1
7	72251	Plate	1
8	39018	Pump body	1
9	36440	Rubber washer	1
10	38309	Fuel tank (euro 5)	1
11	35912	Valve, tank, fuel	1
12	35829	Fuel hose 1($\varphi 6.35 \times \varphi 12.7 \times 780$)	1
13	36434	Fuel hose 2($\varphi 6.35 \times \varphi 12.7 \times 365$)	1
14	36073	Fuel line adiabatic pellicle	1
15	36077	Fuel line spring	1
16	70842	Fuel filter	1
17	70845	Fuel filter installation	1
18	11097	Bolt M6X16	1
19	71658	Hose clamps 8/14	3
20	10201	Screw M5X16	6
21	35830	Plate, valve, tank, fuel	2
22	36142	Plate, fuel filter	1
23	39014	Mounting bracket, seat	1
24	35831	Fuel tank adiabatic pellicle	1
25	36465	Fuel line adiabatic pellicle	2
26	35522	Fuel line spring	1
27	35833	Adiabatic pellicle, valve, tank, fuel	1
28	36078	The oil spill	1
29	60210	Joint	1
30	28095	Tube, fuel cap breather	1
31	11069	Bolt M6X35	2
32	11098	Bolt M6X40	1
33	11902	Washer 6	3
34	24210	Fuel tank installation	2
35	25351	Dump valve fixing plate	1
36	11080	Bolt M6X20	3
37	11454	Nut M6	2
38	22914	Clamp ($\varphi 10.6$)	2

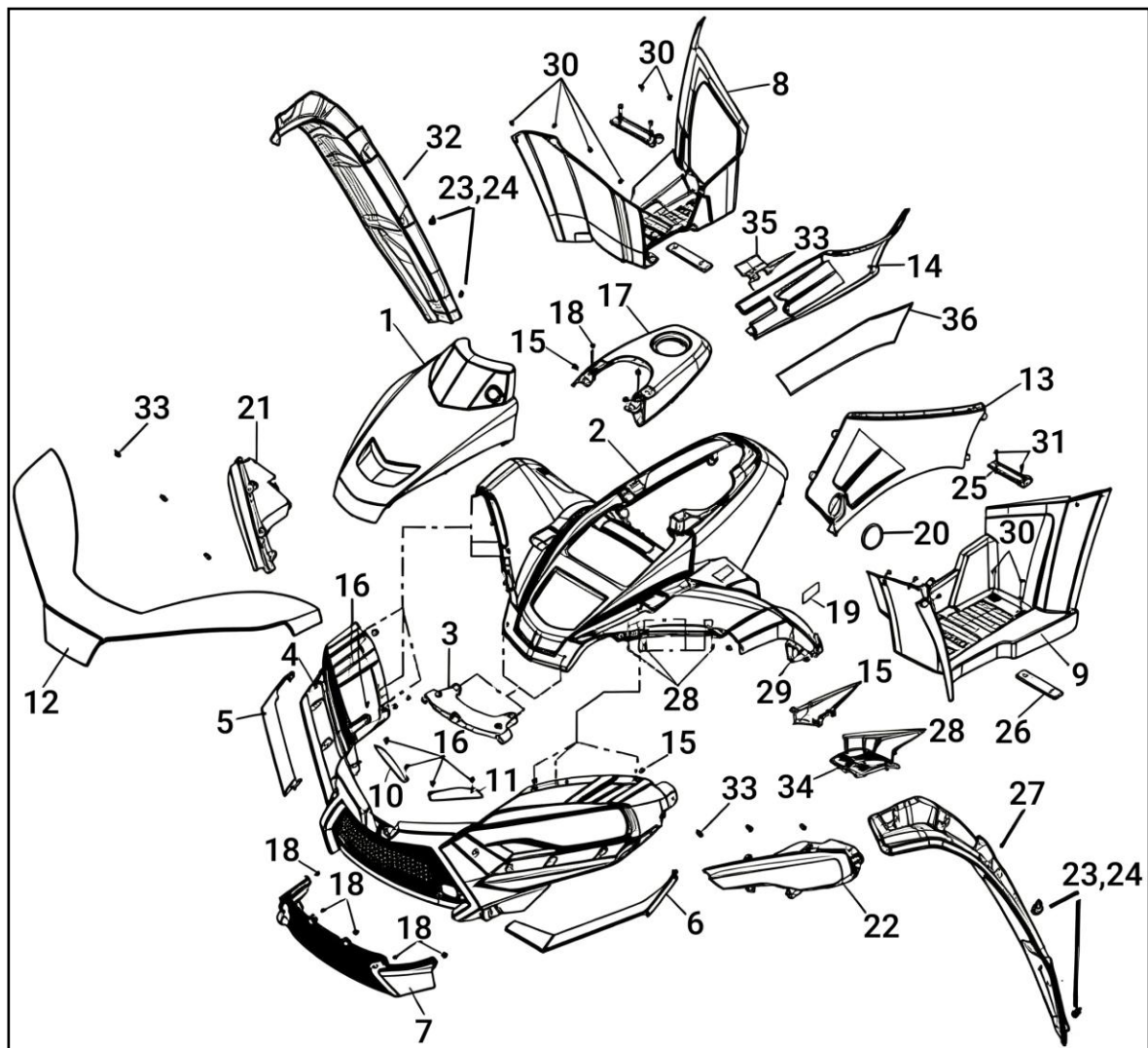
Rear Fenders



Ref. No.	Part No.	Description	Qty.
1	35835	Seat	1
2	35915	Latch assembly	1
3	25042	Rubber, seat setting	6
4	70445	Rubber, seat setting	2
5	20316	Rubber pad	8
6	25044	Tool	1
7	20331	Washer 6	8
8	11194	Bolt M6X18	8
9	25045a	Tool box cap	1
10		Rear fender	1
11	39015	Adiabatic pellicle	1
12	25048	Rear mud adiabatic pellicle 2-big	1
13	25367	Rear mud adiabatic pellicle 2-small	1
14	73056	Screw M6X20	8

15	39011	Frame assy.	1
16	11099	Screw M6X20	6
17	25280	Taillight	1
18	25054	Trestle right	1
19	25055	Trestle left	1
20	25056	Bolt M8X70	2
21	10776	Nut 8	4
22	25608	Rubber cover	8
23	36445	Spacer	4
24	10140B	Bolt M6X12	2
25	11233	Nut	2
26	11902	Washer 6	16
27	35497	Plastic plant	1
28	35078	Battery cover	1
29	39019	Hook bracket, seat lock	1
30	70802	Spring	1
31	36514	Rear reflector (red)	4
32	25369	Taillight cover, r	1
33	25371	Taillight cover, l	1
34	11951	Screw ST4.2X13	8
35	70803	Baffle, seat	1
36	35498	Rear decoration cover	1
37	11459	Bolt M6X20	6
38	22018	Tie (30ah)	1
39	22351	Cover buffer	2
40	70742	Spacer, cover buffer	2
41	27882	Rear turn light cover-l	1
46	35758	Rear reflector plate	2
47	35907	Starter relay shield	1
48	27883	Rear turn light cover-r	1
49	38208a	Muffler elbow baffle (new)	1
50	38520	Rear mud adiabatic pellicle 1	1
51	25049	Rear mud adiabatic pellicle	1
52	39013	Backing block	2
53	11999	Bolt M8x45	4
54	20319	Battery sponge	3
55	35759	Side rear reflector plate	2
56	25295	The traction ball welding components	1
57	25294	Pull the ball	1
58	10947	Bolt 16X95	2
59	11060	Washer 16	2
60	10874	Nut M16	2

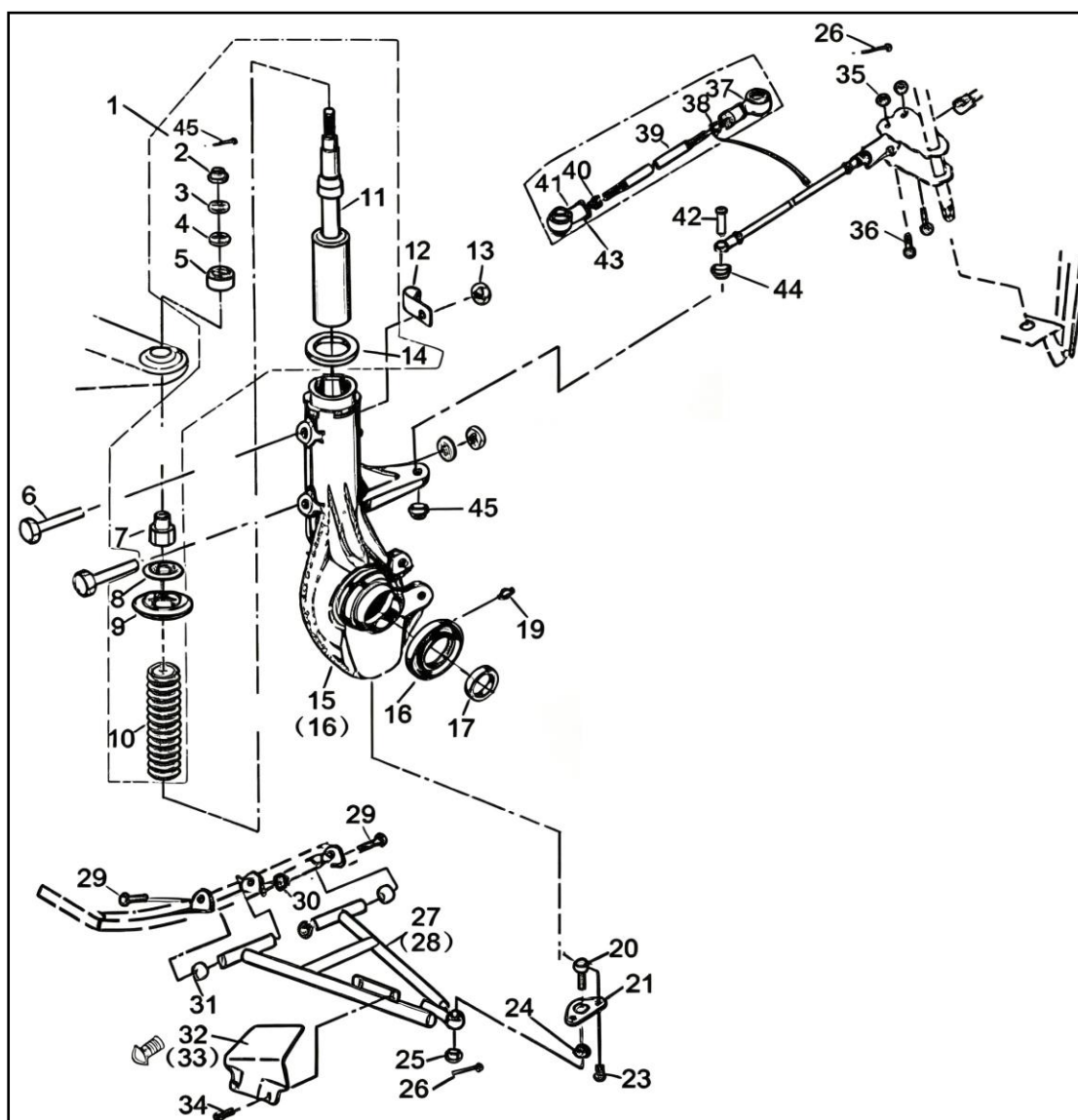
Front Body & Frame



Ref. No.	Part No.	Description	Qty.
1	25064	Front cover	1
2		Front body	1
3	38217	Connecting bracket	1
4	38218	Plastic bumper	1
5		Right trim bar	1
6		Left trim bar	1
7	35927	Under ventilation grid	1
8	35076	Footrest right	1
9	35077	Footrest left	1
10	38222	Right baffle plate	1
11	38223	Left baffle plate	1
12	38221	Head lamp case	1
13	25077	Side cover l	1
14	39007	Side cover r	1
15	22346	Nut ST4.8	16
16	11222	Screw ST4.2×13	12
17	35841	Cover, fuel tank top	1
18	11088	Screw ST4.8×16	18

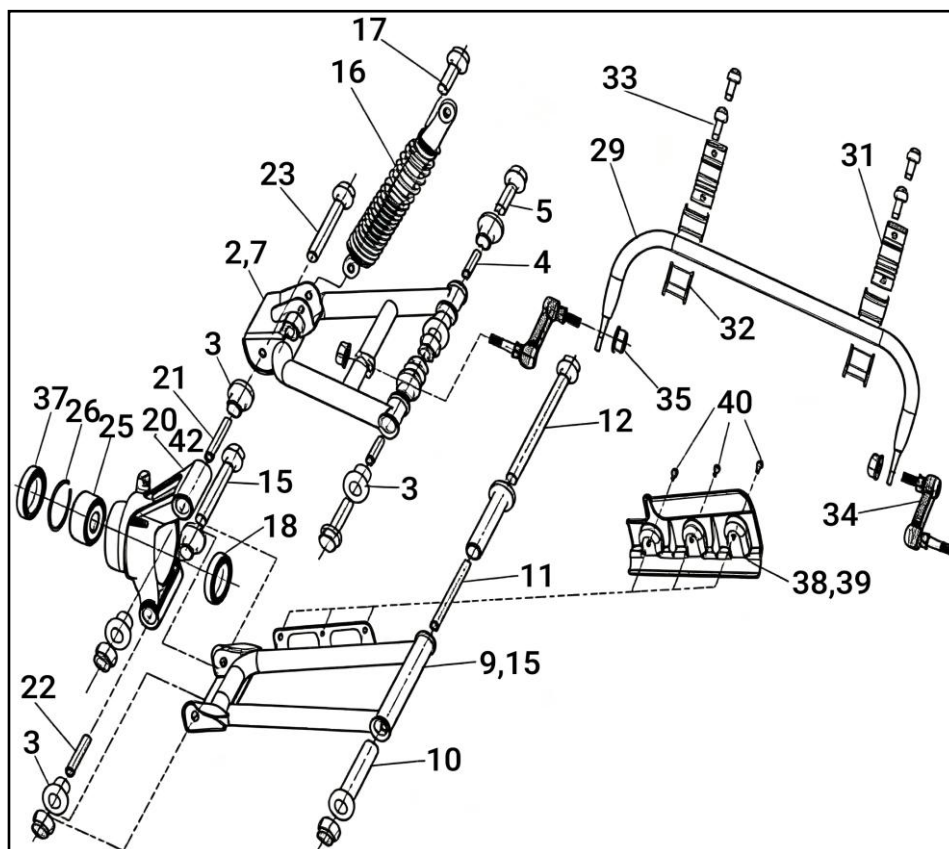
19	36515	Front reflector	2
20	35843	Left side cover	1
21	38224	Led light, FR	1
22	38225	Led light, FL	1
23	73054	Screw M6X16	10
24	11542	Nut M6	8
25	70336	Step(short)	2
26	70300	Rubber washer	2
27	35567	Front left mud guard	1
28	11088	Screw ST4.8×16	8
29	11064	Nut M6	8
30	26370	Screw M6X16	16
31	46193	Screw M6X20	4
32	35566	Front right mud guard	1
33	10178B	Screw ST4.2X13	12
34	35499	Shift cover (black)	1
35	35515	Cap, side cover r	1
36	39030	Side cover r, adiabatic pellicle	1

Shock Absorber Front



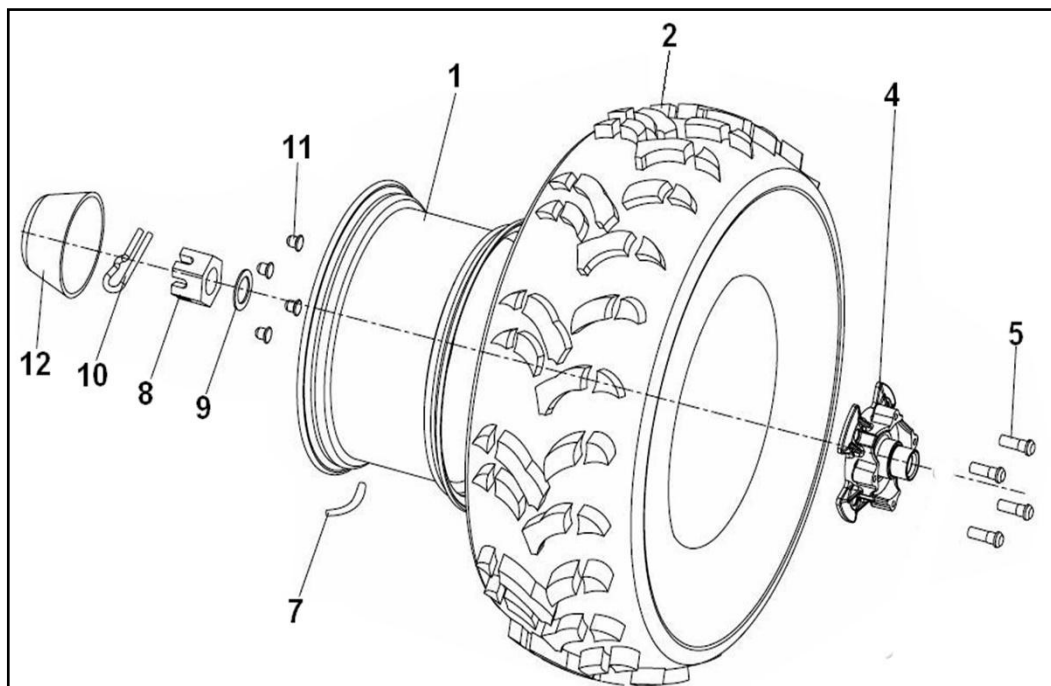
Ref. No.	Part No.	Description	Qty.
1	39003	Front shock absorber assembly	2
2	11969	Nut M14X1.5	2
3	21802	Washer 14	2
4	21803	Spacer rubber	2
5	21804	Upper pivot ball	2
6	11540	Bolt M8X55	4
7	21806	Nut M14X1.5	2
8	21807	Lower pivot ball	2
9	21808	Spring retainer	2
10	39004	Spring	2
11	38203	Strut bumper	2
12	32104	Clamp	2
13	10882	Nut M8x1.25	4
14	21813	Spring retainer	2
15	35019	Strut body left	1
16	35016	Strut body right	1
17	26912	Circlip	2

18	26913	Bearing	2
19	27074	Grease fitting	2
20	32588	Ball joint stud	2
21	20513	Ball joint mounting bracket	2
23	11947	Bolt M6X12	4
24	12004	Washer	2
25	27067	Nut M10X1.25	2
26	27215	Cotter pin 2.5X25	2
27	20518F	A-arm left	1
28	20627F	A-arm right	1
29	20522f	A-arm pivot shaft	4
30	10796	Nut M12X1.25	4
31	20524F	Bushing	4
32	32589	A-arm shield left	1
33	32590	A-arm shield right	1
34	11062	Screw M5X12	4
35	11343	Nut M10X1.25	2
36	27794	Bolt M10X1.25X57	2
37	20503	Tie rod end a	2
38	11198	Jam nut (right)	2
39	36147	Tie rod (new model)	2
40	20506	Jam nut (left)	2
41	20507	Tie rod end b	2
42	35722	Bolt	2
43	36146	Tie rod assy (new model)	2
44	35017	Front t type	1
45	35018	Down t type	1
46	10094	Cotter pin 2X20	2



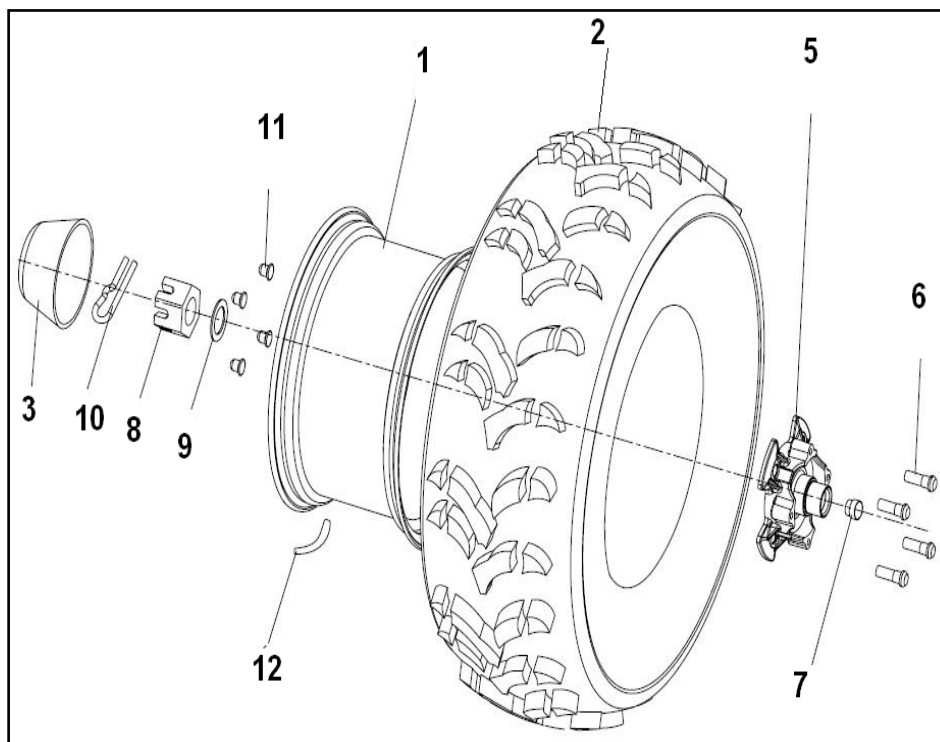
Ref. No.	Part No.	Description	Qty.
2	39016	Arm, L. RR	1
3	70682	Bush 1, ARM, R.RR	16
4	70683	Collar	4
5	70684	Bolt M10X1.25X80	4
7	39017	Arm, R.RR	1
9	27326	Arm set, L.RR	1
10	70665	Bush 2, ARM ,R.RR	4
11	70687	Collar, ARM	2
12	70688	Bolt M10X1.25X230	2
15	27327	Arm set, R.RR	1
16	27394	Shock absorber, RR	2
17	70012	Bolt M10X1.25X52	4
20	36136	Knuckle, L.RR (cast steel)	1
21	70692	Collar, RR.KNUCKLE, (upper)	2
22	70693	Collar, RR.KNUCKLE, (lower)	2
23	70694	Bolt, knuckle, (upper)	2
24	70695	Bolt, knuckle, (lower)	2
25	70674	Bearing AU0712	2
26	70055	Circlip 58	2
29	35385	Spring, RR.STABILIZER	1
31B	35523	Holder, stabilizer bush (new model)	2
32A	27091	Bush, RR.STABILIZER (new model)	2
33	11199	Bolt M8X20	4
34	70699	Link, RR. stabilizer	2
35	11510	Nut M10X1.25	18
36	70675	Seal 61.5-43-11	2
37	70676	Seal 58-41.2-11	2
38	36531	Arm protect, L	1
39	36530	Arm protect, R	1
40	11062	Bolt M5X12	6
42	36135	Knuckle, R.RR (cast steel)	1

Wheel Front

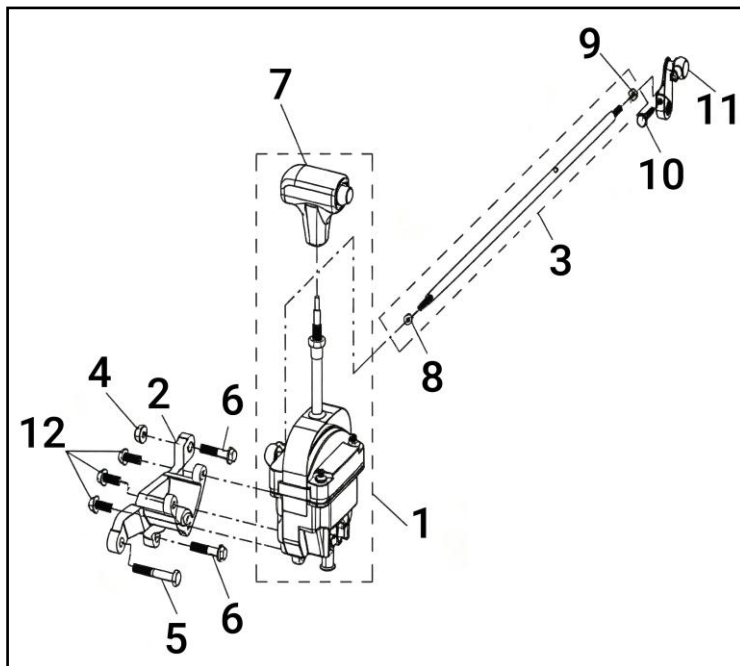


Ref. No.	Part No.	Description	Qty.
1		Wheel sub-assy, FR(aluminium)	2
2	27933	Tire front at25x8-12 69j	2
4	27285	Hub assy shrt	2
5	70714	Bolt M12X1.25	16
7	20807a	Valve, rim (tr412)	4
8	70721	Bolt slotted	4
9	70722	Washer	2
10	26267	Pin 4X32	2
11	27411	Nut, wheel	8
12	36162	Cap, wheel center	2

Wheel Rear

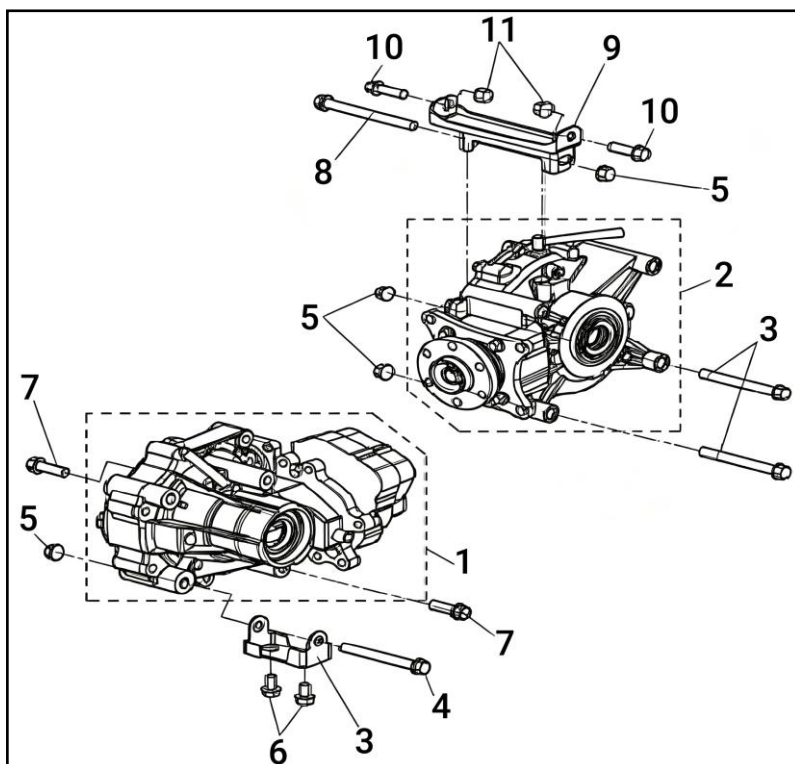


Ref. No.	Part No.	Description	Qty.
1	36155	Wheel sub-assy, RR (aluminium)	2
2	27934	Tire, RR (AT25x10-12)	2
3	36162	Cap, wheel center	2
5	70719	Hub, RR wheel	2
6	70714	Bolt M12X1.25	16
7	70718	Seal	4
8	70721	Bolt slotted	2
9	70722	Washer	2
10	26267	Pin 4X32	2
11	27411	Nut, wheel	8
12	20807a	Valve, RIM (TR412)	4



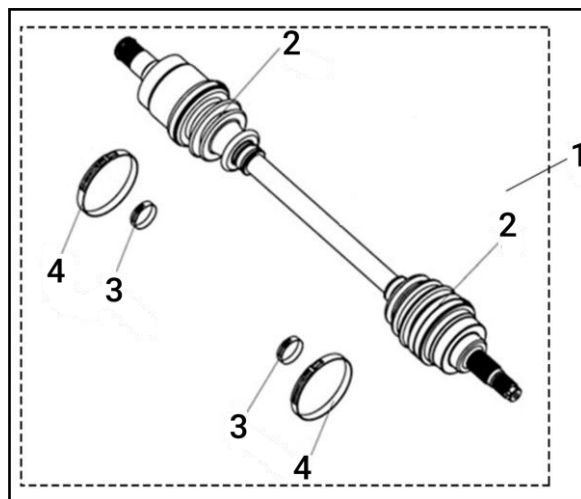
Ref. No.	Part No.	Description	Qty.
1	35008a	Shifter assy mounting	1
2	35010	Shifter mounting bracket	1
3	35720	Shifter mounting rod	1
4	11442	Nut M8	2
5	25056	Bolt M8X70	1
6	11045	Bolt M8X40	2
7	26368	Handle shifter	1
8	11176	Nut M6	1
9	11970	Left-hand nut M6	1
10	11539	Bolt M6X1×25	1
11	36452	Shift rocker arm components	1
12	10783	Bolt M8X20	3

Front and Rear Gear-Box



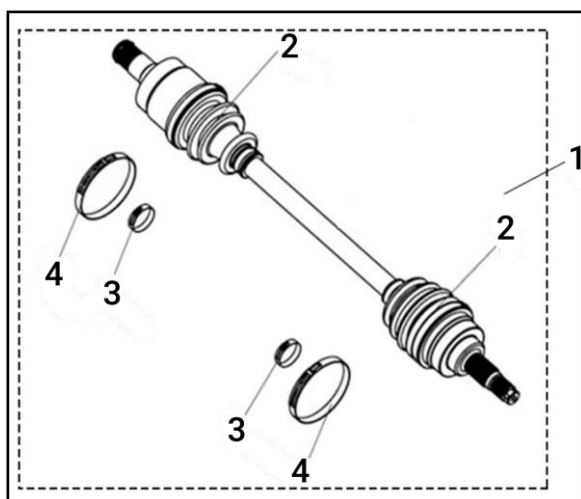
Ref. No.	Part No.	Description	Qty.
1	26319	Front gear-box assy	1
2	26300	Rear gear-box assy	1
3	36541	Bracket, front gear-box assy	1
4	10924	Bolt M10X1.25X90/85	1
5	10015	Nut M10X1.25	4
6	10168	Bolt M8X1.25X16	2
7	11854	Bolt M10X1.25X25	2
8	10925	Bolt M10X1.25X110	3
9	36310	Bracket, rear gear-box assy	1
10	11072	Bolt M8X1.25X20	2
11	10079	Nut M8X1.25	4

Front Left Drive Axle (For 4WD)



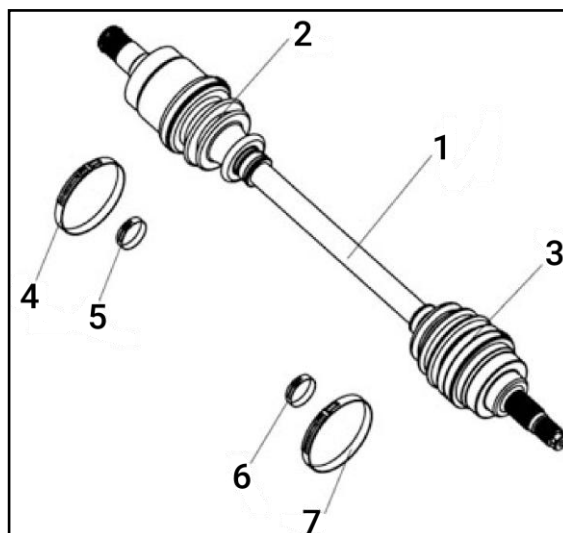
Ref. No.	Part No.	Description	Qty.
1	35030	Front left drive axle	1
2	35038	Outer board boot	2
3	35037	Boot band a	2
4	35040	Boot band b	2

Front Right Drive Axle (For 4WD)



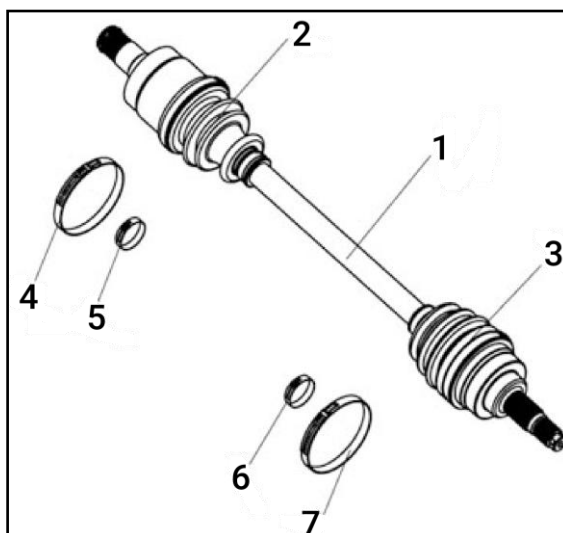
Ref. No.	Part No.	Description	Qty.
1	35031	Front right drive axle	1
2	35038	Outer board boot	2
3	35037	Boot band a	2
4	35040	Boot band b	2

Rear Left Drive Axle (XL)



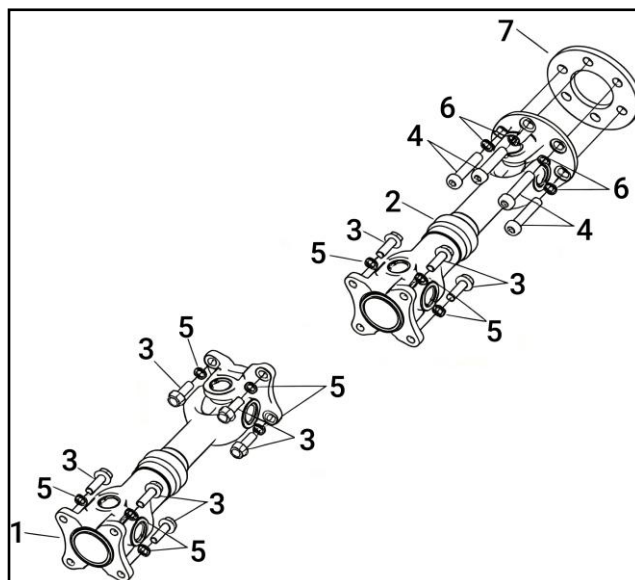
Ref. No.	Part No.	Description	Qty.
1	36143	Rear left drive axle	1
2	36164	Inter board boot	1
3	36165	Outer board boot	1
4	36166	Inter boot band b	1
5	36167	Inter boot band a	1
6	36168	Outer boot band b	1
7	35920	Outer boot band a	1

Rear Right Drive Axle (XL)



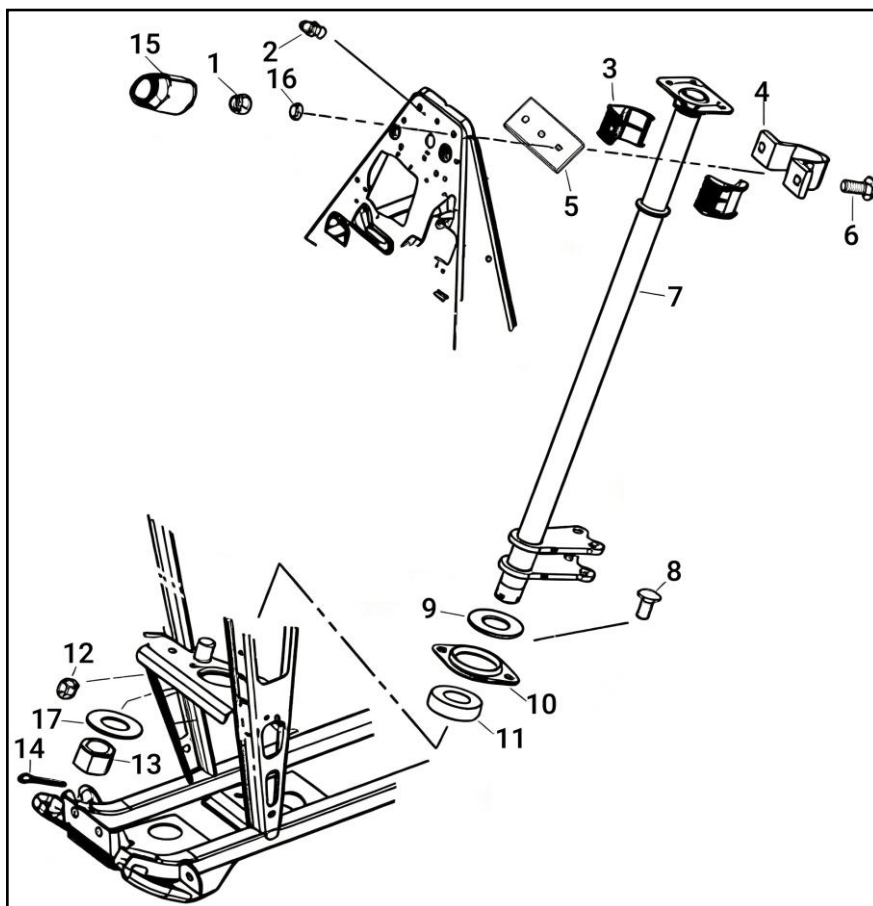
Ref. No.	Part No.	Description	Qty.
1	36144	Rear right drive axle	1
2	36164	Inter board boot	1
3	36165	Outer board boot	1
4	36166	Inter boot band b	1
5	36167	Inter boot band a	1
6	36168	Outer boot band b	1
7	35920	Outer boot band a	1

Front and Rear Knuckle Assy

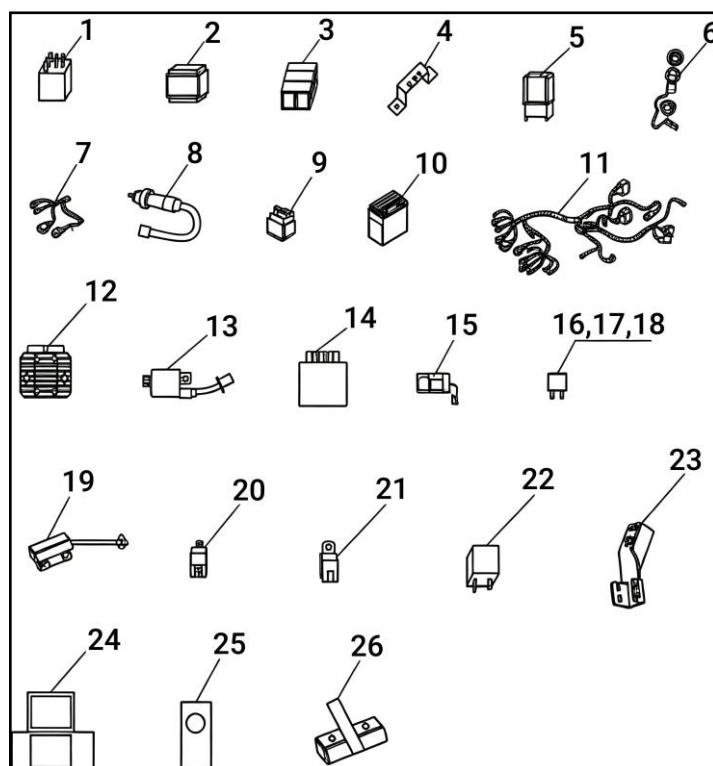


Ref. No.	Part No.	Description	Qty.
1	36150	Front knuckle	1
2	36151	Rear knuckle	1
3	11315	Bolt M8X1.0X25	12
4	10927	Bolt M10X1.25X32	6
5	10106	Spring washer 8	12
6	10027	Spring washer 10	6
7	36275	Parking pad	1

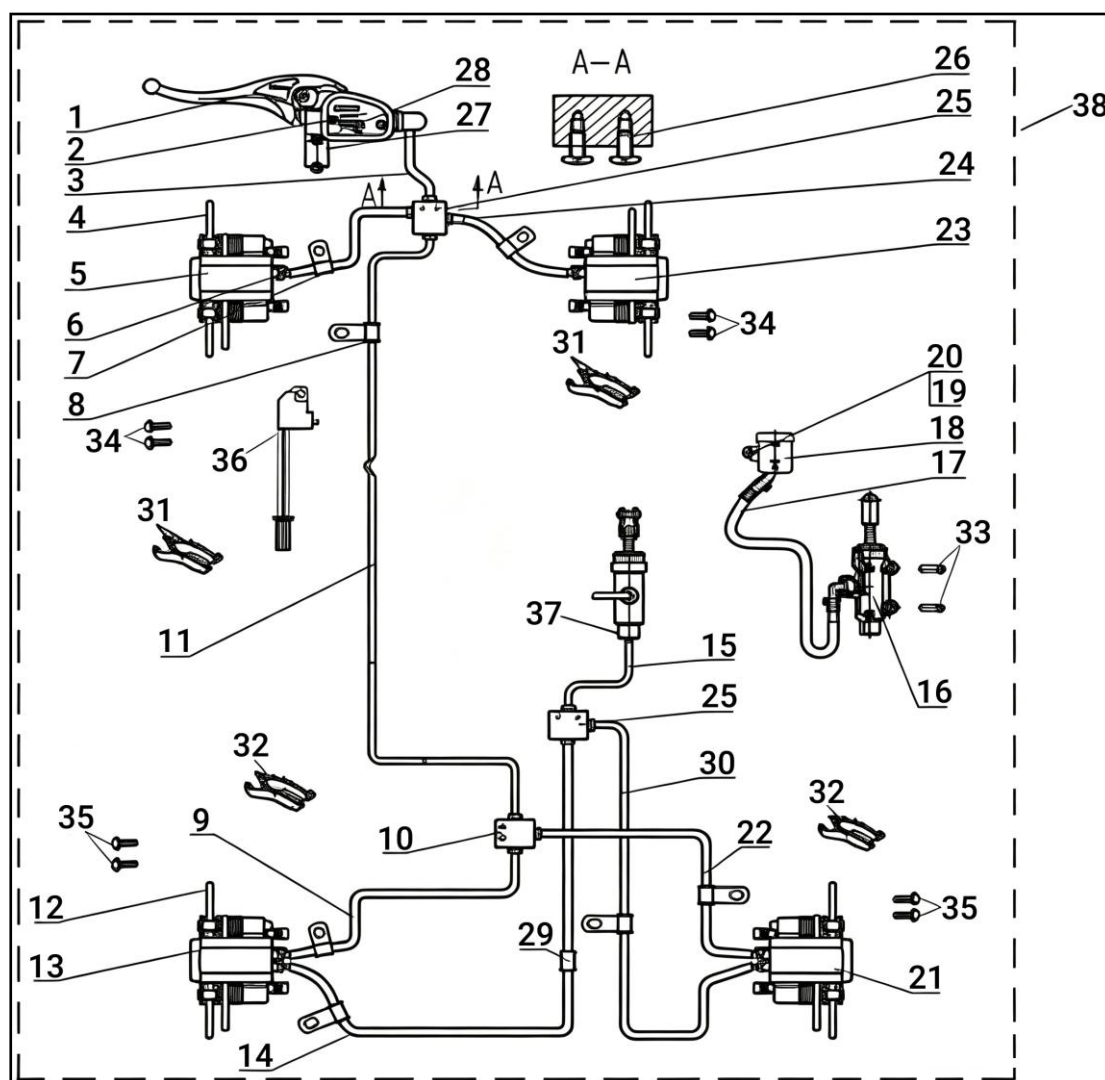
Steering Column



Ref. No.	Part No.	Description	Qty.
1	10880	Nut M8	2
2	27074	Grease fitting	1
3	21903	Bushing	2
4	21904	Steering clamp rear	1
5	21905	Steering clamp front	1
6	21906	Bolt	2
7	35020a	Steering column	1
8	21906	Bolt	2
9	21909	Washer	3
10	21910	Bearing retainer	1
11	21911	Bearing	1
12	10880	Nut M8	2
13	10100	Steering column retainer nut	1
14	11576	Cotter pin	1
15	27256	Protect cover	2
16	11504	Spring washer	2
17	35938	Washer-thin	1



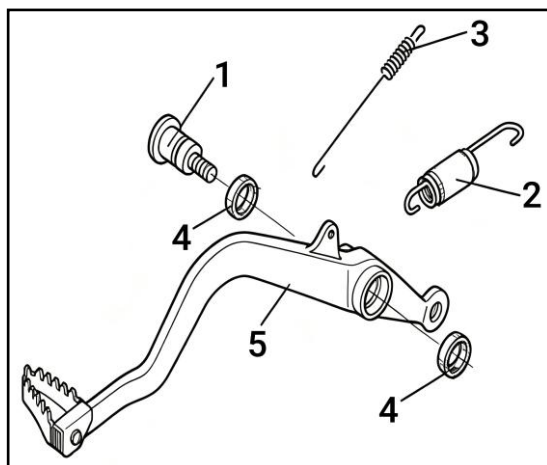
Ref. No.	Part No.	Description	Qty.
1	39026	Auxiliary relay	4
2	25517	Rubber sheath 1	1
3	25519	Rubber sheath 2	1
4	35532	Auxiliary relay bracket	1
5	71474	Efi relay	1
6	71973	Accessory socket assy	1
7	35784	Efi wire	1
8	70405a	Brake switch (used for waterproof plug in unit)	1
9	71602	Starter relay	1
10	70407a	Battery	1
11	39028	Wiring harness (for EFI Europe)	1
12	71603	Regulator rectifier	1
13	70822D	Ignition coil	1
14	85155	Ecu (mt05.2)	1
15	35088	Reverse gear warning	1
16	22020	15 AMP fuse	3
17	22021	5 AMP fuse	1
18	84273	10 AMP fuse	2
19	72278	Electrical dump switch	1
20	50280	Start relay (old)(control high beam and dipped beam)	1
21	35656	Start relay (new)(control high beam and dipped beam)	2
22	26272	Protector	2
23	72308	Brake switch bracket	1
24	39027	Auxiliary relay retaining sleeve	2
25	35861	Relay mounting strip(new)	1
26	72305	Electronic dump switch connection plate	1



Ref. No.	Part No.	Description	Qty.
1	2211120	Brake lever	1
2	27320	Grip brake pump	1
3	27281	Grip brake hose	1
4	27298	Front brake disc	2
5	39020	Front caliper, l	1
6	32104	Line block	4
7	39023	Front brake hose 1	1
8	32105	Rubber tube 1	4
9	35789	Tube disk-brake rear 5	1
10	70546	Rear brake hose 1	1
11	39022	Tube disk-brake rear 2	1
12	70537	Rear brake disc	2
13	70589	Brake caliper left, rear	1
14	35070	Rear brake hose 2	1
15	27377	Rear brake hose 3	1
16	32125	Foot brake	1
17	27379	Reservoir hose	1
18	35787	Reservoir	1
19	11233	Nut M6	1

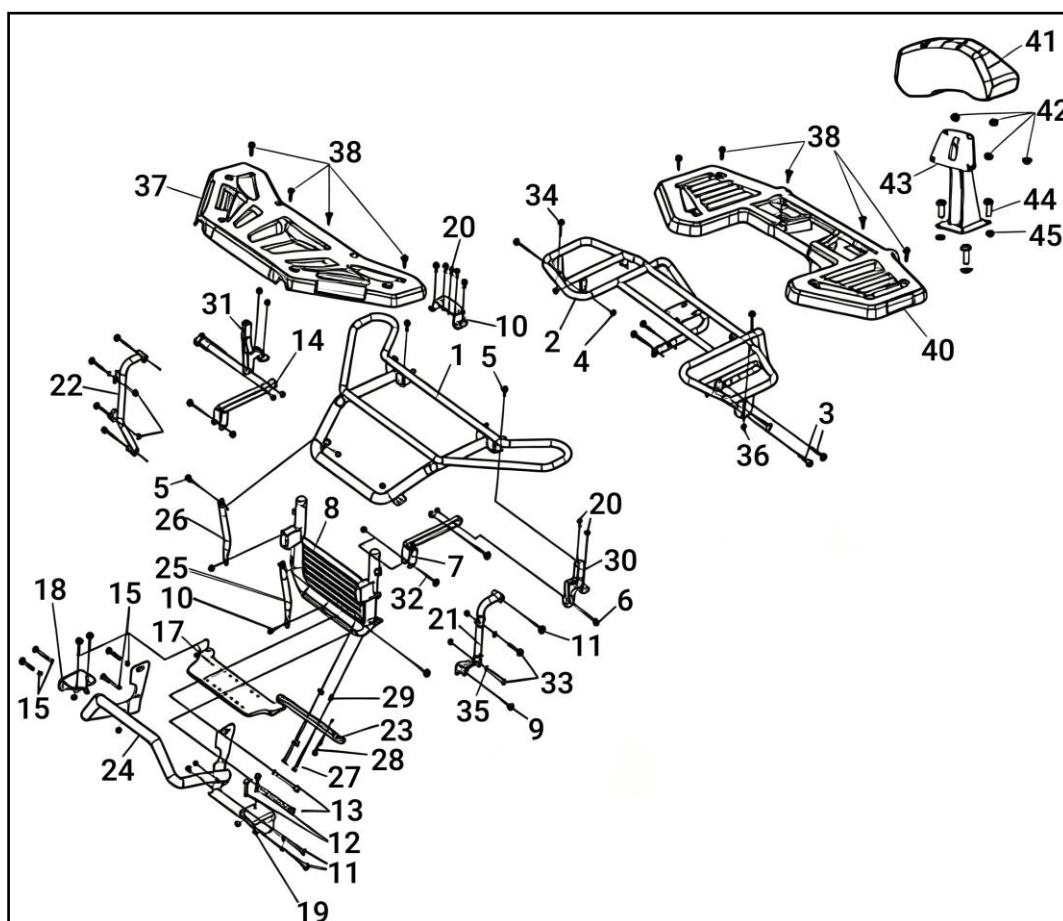
20	10140B	Bolt M6X12	1
21	70595	Brake caliper right, rear	1
22	35790	Rear brake hose 6	1
23	39021	Front caliper, r	1
24	39024	Front brake hose 1	1
25	70546	Four-line coupler	1
26	12001	Bolt M5X15	2
27	25833	Cap	1
28	27283	Bolt M6X22	2
29	32105	Rubber tube 1	6
30	35788	Rear brake hose 4	1
31	26823	Inside and outside pad, front	4
32	22245	Inside and outside pad, rear	2
33	11496	Bolt M6X30	2
34	11935	Bolt M8X25	4
35	12000	Bolt M8X20	20
36	48323	Stop switch front	1
37	35868	Foot brake pump connection bolt	1
38	39029	Disc brake assembly	1

Pedal, Brake

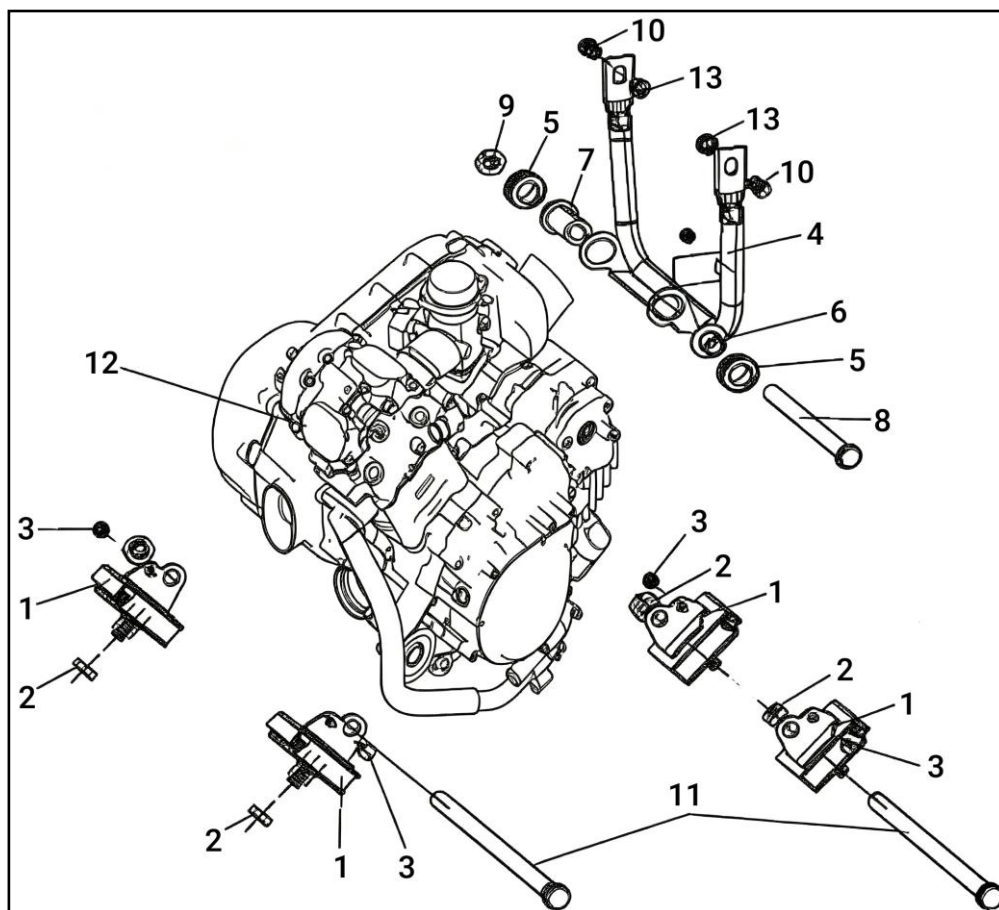


Ref. No.	Part No.	Description	Qty.
1	70457	Shaft, brake pivot	1
2	25539	Spring, stop switch	1
3	32246	Spring assy (new model)	1
4	70460	Dust seal	2
5	35821	Pedal brake	1

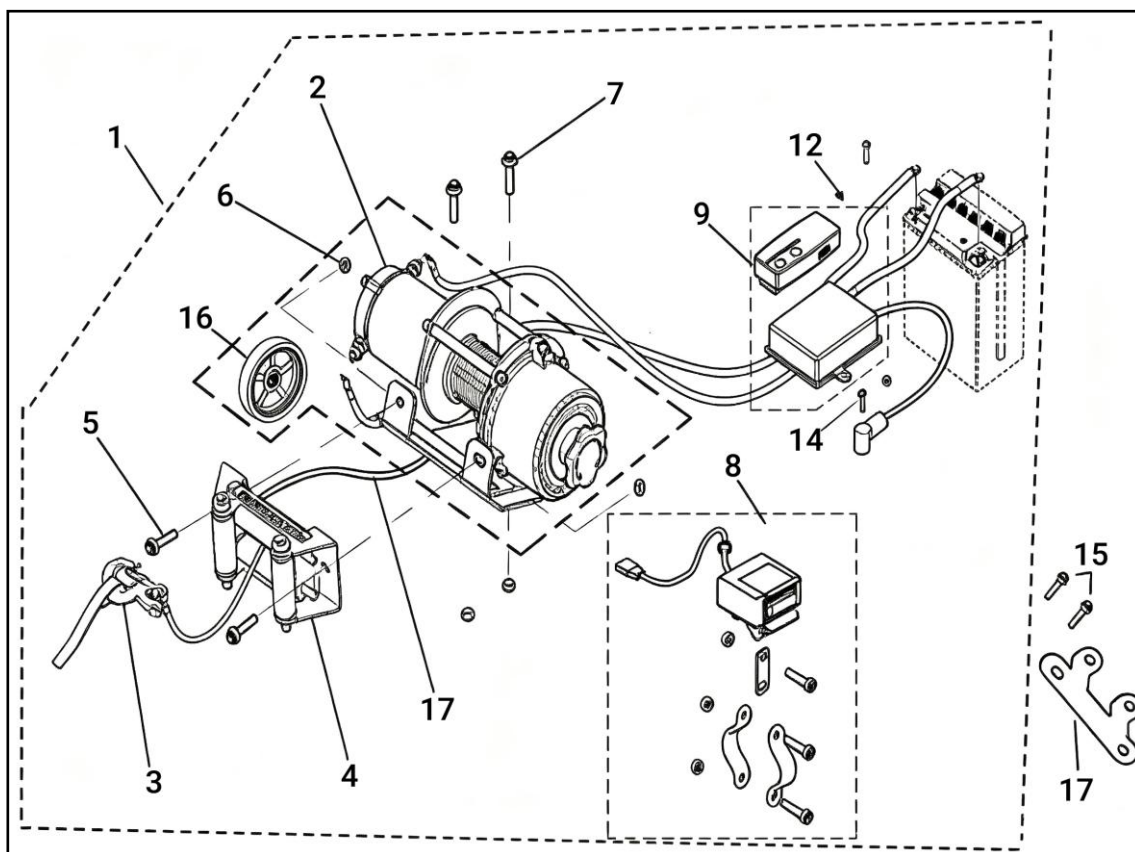
Bumper & Rack



Ref. No.	Part No.	Description	Qty.
1	27884	Front rack	1
2	35570	Rear rack	1
3	11101	Bolt M8X45	4
4	10882	Nut M8	18
5	11102	Bolt M8X25	4
6	11103	Bolt M8X85	2
7	38213	Trestle 1-left	1
8	38215	Bumper bracket	1
9	25056	Bolt M8X70	2
10	35532	Auxiliary relay bracket	1
11	10780	Bolt M8X55	6
12	10783	Bolt M8X20	4
13	10059	Bolt M8X25	6
14	38214	Trestle 1-right	1
15	26009	Washer 8	8
17	35848	Bracket, pulling	1
18	27387	Holder, r.pullin bracket	1
19	27386	Holder, l.pullin bracket	1
20	10140B	Bolt M6X12	9
21	38235	Left bracket radiator	1
22	38236	Right bracket radiator	1
23	36458	Snow shovel mounting plate	1
24	25331	Front bumper	1
25	38211	Front support tube, l	1
26	38212	Front support tube, r	1
27	12002	Bolt M8X45	2
28	11104	Bolt M10X1.25X50	2
29	35849	Shovel mounting spacer	2
30	35028	Trestle l	1
31	35029	Trestle r	1
32	10403	Bolt M8X50	2
33	11539	Bolt M6X25	4
34	11105	Bolt M6X35	2
35	10986	Washer 6	4
36	11064	Nut M6	2
37	35571	Front rack plastic cover	1
38	35573	Bolt M6X20	18
40	35572	Rear rack plastic cover	1
41	35721	Backrest (skin type)	1
42	10919	Nut M8	4
43	35384	Rear backrest weld assembly	1
44	10059	Bolt M8X25	4
45	11455	Nut M8	4

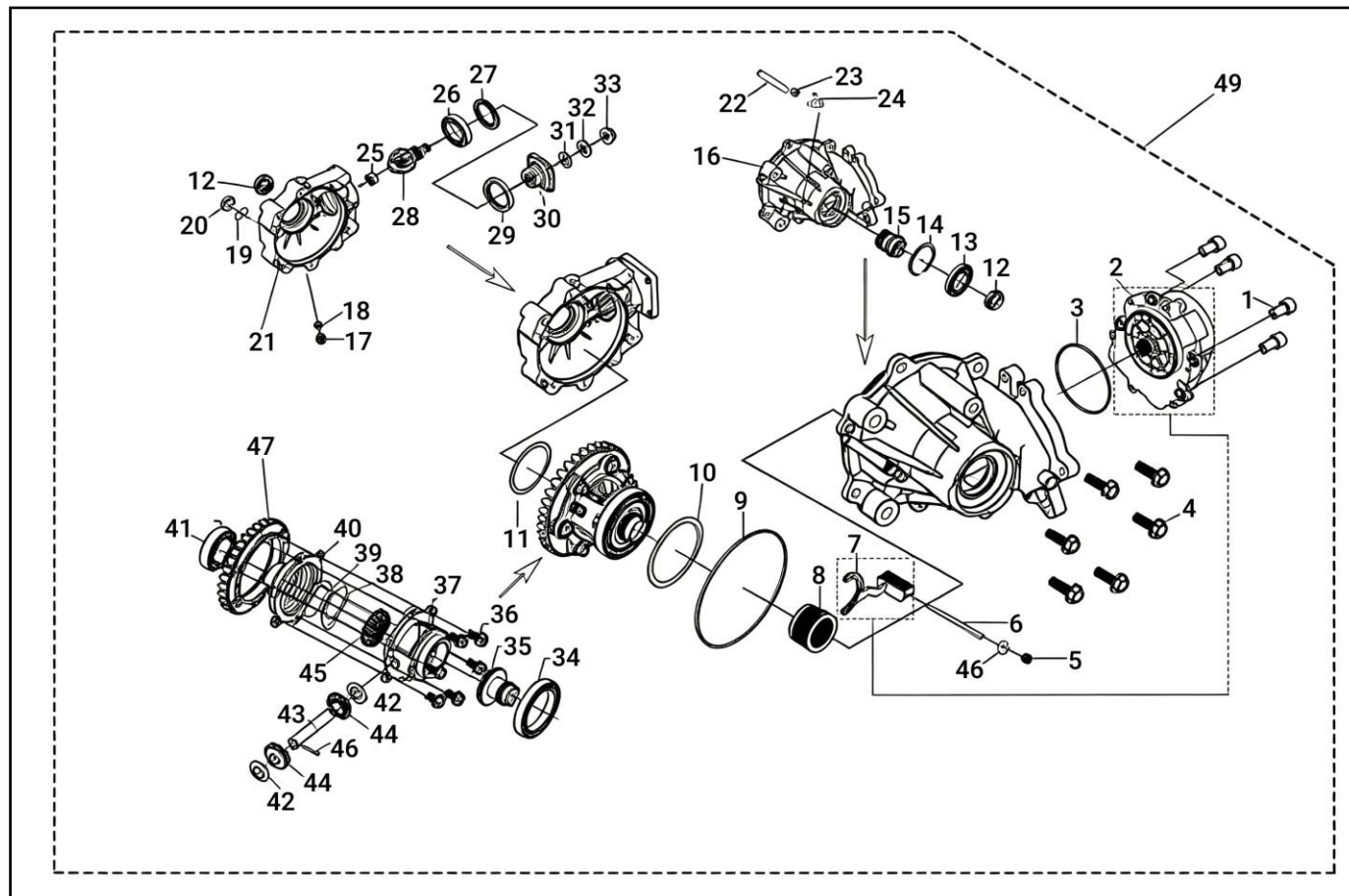


Ref. No.	Part No.	Description	Qty.
1	35503	Bushing engine bracket	4
2	10015A	Nut M10X1.25	4
3	10928	Bolt M6X16	4
4	35504	Front engine mount bracket	1
5	27885	Rubber bushing	2
6	27886	Spacer 1	1
7	27887	Spacer 2	1
8	10929	Bolt M12X1.25X170	1
9	10136	Nut M12X1.25	3
10	10183	Bolt M8X16	2
11	10930	Bolt M12X1.25X150	2
12	39001	Engine assy.	1
13	10079	Nut M8X1.25	2



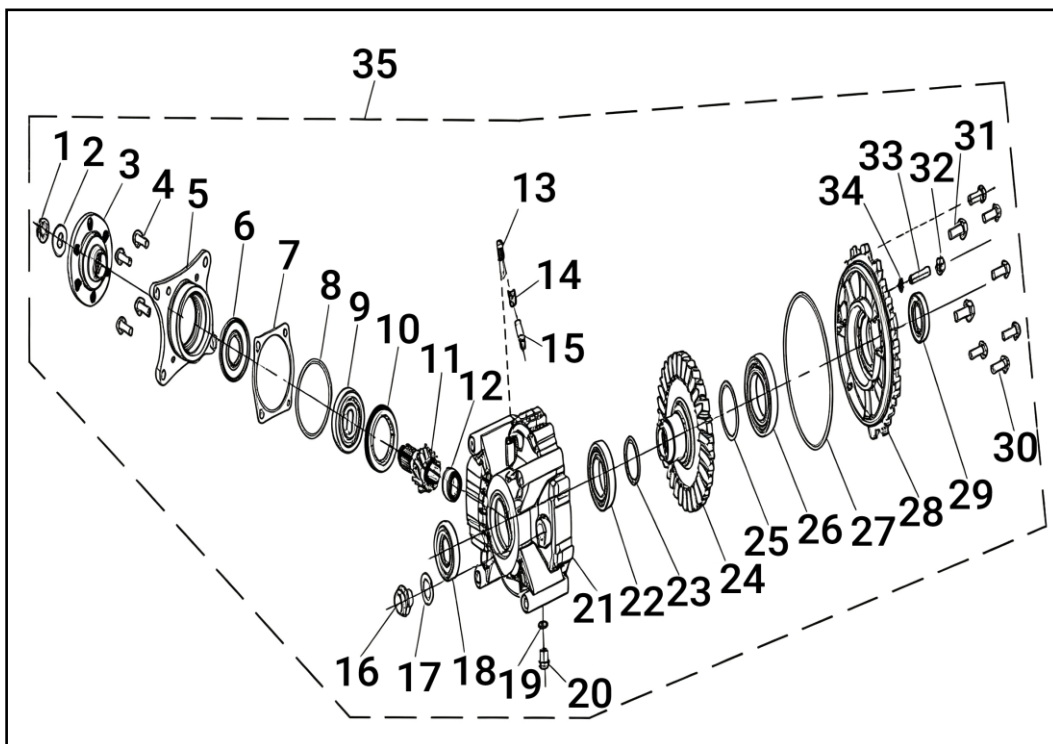
Ref. No.	Part No.	Description	Qty.
1	73543	Tractor assy	1
2	73544	Tractor	1
3	73545	Tow hook	1
4	73546	Slideway	1
5	11492	Hexagon flange bolt M8X20	2
6	10794	Prevailing torque type all-metal hexagon nut M8	4
7	11466	Hexagon flange bolt M8X25	2
8	36492	Switch	1
9	80483	Controller and remote control	1
12	11711	Nut 5	2
13	37126	Controller bracket	1
14	11640	Bolt M5X25	2
15	11097	Bolt M6X16(for T3 EFI)	2
16	80461	Plate of winch	1
17	35943	Wire rope	1
18	39005	Winch anti-grip device	1

Front Axle



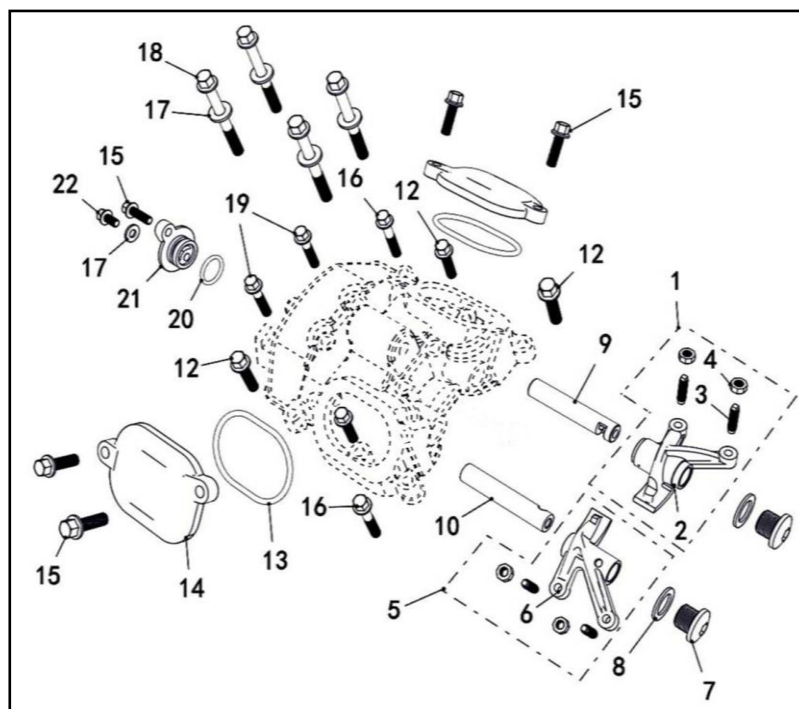
Ref. No.	Part No.	Description	Qty.
1	35391	Screw	4
2	35388	Gear motor	1
3	35389	O-ring $\phi 81.2 \times 1.9$	1
4	10059	Bolt	6
5	11075	Screw	1
6	10957	Pin shaft	1
7	26314	Shift fork	1
8	26315	Drive clutch	1
9	35401	O-ring $\phi 141 \times 2.4$	1
10	26322	Adjust shim (83×71)	As needed
11	26323	Adjust shim (61×48)	As needed
12	35410	Oil seal	2
13	10960	Bearing 16007	1
14	10047	Retainer 62	1
15	26316	Drive clutch cover	1
16	26321	Case cover, front axle	1
17	73020	Drain bolt	1
18	73021	Washer 10	1
19	50082	O-ring $\phi 30.5 \times 3$	1
20	24305	Fill plug	1
21	26320	Gear case, front axle	1
22	27593	Breather pipe	1
23	25107	Clip	1

24	47717	Hose fitting	1
25	35429	Needle bearing	1
26	35424	Bearing 6007	1
27	26317	Bearing retainer	1
28	26328	Bevel gear-driving	1
29	35423	Oil seal	1
30	35428	Coupler	1
31	35428	O-ring	1
32	26324	Nut washer	1
33	26318	Nut	1
34	10959	Bearing 61912	1
35	35434	Drive gear	1
36	26331	Bolt	6
37	26332	Bracket, differential	1
38	26326	Shim	1
39	26325	Washer	1
40	26334	Top bracket, differential gear	1
41	35424	Bearing 6007	1
42	26327	Wearing ring	2
43	26333	Gear shaft(center), differential	1
44	35437	Gear(center), differential	2
45	35440	Driven gear	1
46	11076	Pin	1
47	26329	Bevel gear-driven	1
48	35162	Washer	1
49	26319	Front gear-box assy	1



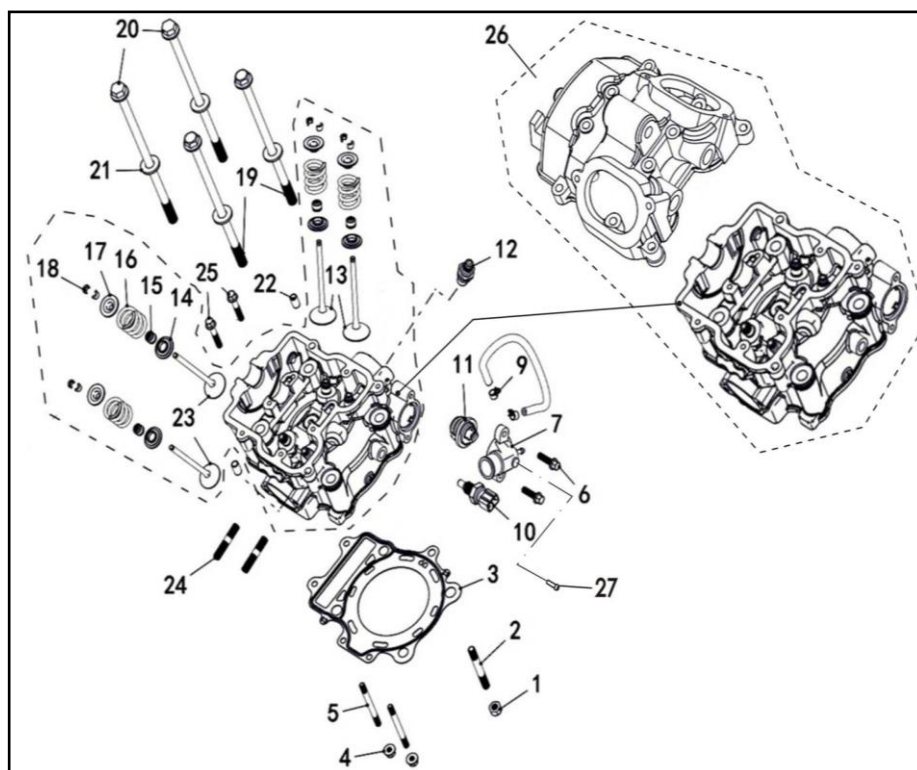
Ref. No.	Part No.	Description	Qty.
1	35473	Nut M12×1.25	1
2	26309	Washer 12.5×30×4	1
3	35474	Coupler, rear axle	1
4	11347	Bolt M8×30	4
5	26304	Bevel gear bearing housing	1
6	35471	Oil seal ϕ 34.5× ϕ 61×9	1
7	26308	Adjust shim	As needed
8	26311	O-ring 69×3	1
9	35468	Bearing 6305	1
10	26310	Bearing retainer M64×1.5×10	1
11	26313	Active bevel gear assembly	1
12	35465	Needle bearing	1
13	47717	Vent nozzle	1
14	25107	Clamps	1
15	21111	Vent pipe	1
16	83179	Bolt M18×1.25	1
17	83180	Washer 18	1
18	26303	Oil seal 30×60×15	1
19	83462	Washer	1
20	83010	Hexagon head bolt	1
21	26312	Rear gear case	1
22	10958	Bearing 6008	1
23	26305	Adjust shim 48×40.3	As needed
24	26307	Drive bevel gear assembly	1
25	26306	Adjust shim 60.5×50.3	As needed
26	10569	Bearing 6010	1
27	35493	O-ring 151×3	1
28	26301	Rear gear bearing housing	1
29	26302	Oil seal 30×50×13.5	1
30	11499	Bolt M8×25	6
31	35463	Bolt M10×25	2
32	35487	Nut M8	1
33	10955	Hex screw M8×45	1
34	43615	Washer 8	1
35	26300	Rear axle assembly	1

Cylinder Head Cover



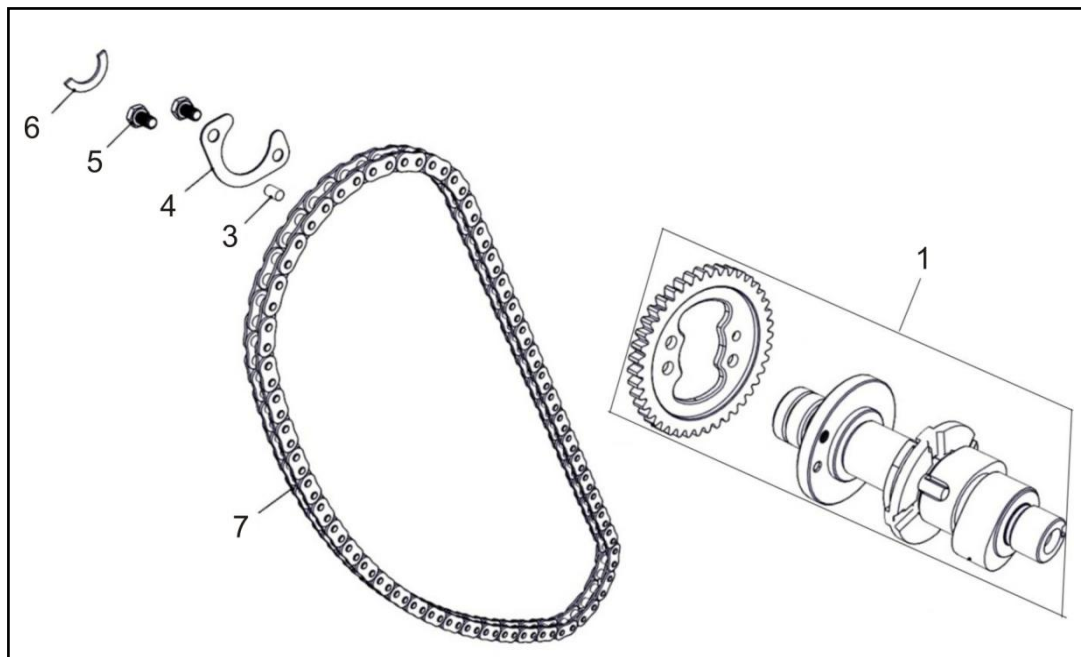
Ref. No.	Part No.	Description	Qty.
1	35143	Intake rocker arm comp	1
2	35144	Intake rocker arm valve	1
3	35146	Adjusting nut valve	4
4	35147	Adjusting screw valve	4
5	35148	Exhaust rocker arm comp	1
6	35149	Exhaust rocker arm valve	1
7	35150	Bolt M14X1.25X12	2
8	35215	Washer 14	2
9	35142	Intake rocker shaft	1
10	35145	Exhaust rocker shaft	1
12	11436	Bolt M6X25	4
13	35111	Gasket	2
14	35107	Valve adjust cover	2
15	10110	Bolt M6X20	5
16	11438	Bolt M6X35	2
17	35108	Washer 6	5
18	11441	Bolt M6X55	4
19	11437	Bolt M6X30	2
20	35113	O-ring 18X2.4	1
21	35112	Seal cover	1
22	11435	Bolt M6X12	1

Cylinder Head



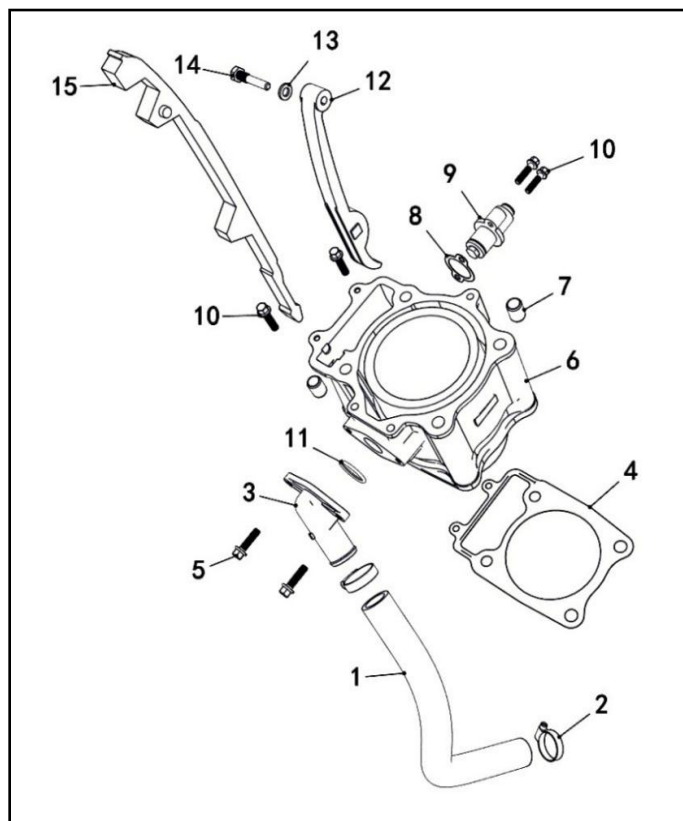
Ref. No.	Part No.	Description	Qty.
1	11518	Thrust nut M8	1
2	35097	Stud M8X68	1
3	35106	Gasket, cylinder head	1
4	10004	Thrust nut M6	2
5	35098	Stud M6X72	2
6	10278	Bolt M6X22	2
7	35103	Water outlet joint, cylinder head	1
8	35104	Pipe, cylinder head	1
9	35109	Clip 7.5	2
10	35095e	Water temperature sensor	1
11	35171	Thermostat	1
12	35105	Spark plug DPR7EA-9(NGK)	1
13	35135	Intake valve	2
14	35137	Seat spring valve	4
15	35140	Seal valve stem	4
16	35136	Spring valve	4
17	35138	Retainer spring valve	4
18	35139	Cotter valve	8
19	35100	Cylinder bolt M10X1.25X190	2
20	35101	Cylinder bolt M10X1.25X200	2
21	35102	Washer, cylinder bolt	4
22	50076	Dowel pin 8×14	2
23	11438	Bolt M6X35	2
24	35141	Exhaust valve	2
25	35099	Stud M8X42	2
26	36499	Cylinder head and cylinder head cover assembly	1
27	35851	Hose connector	1

Camshaft

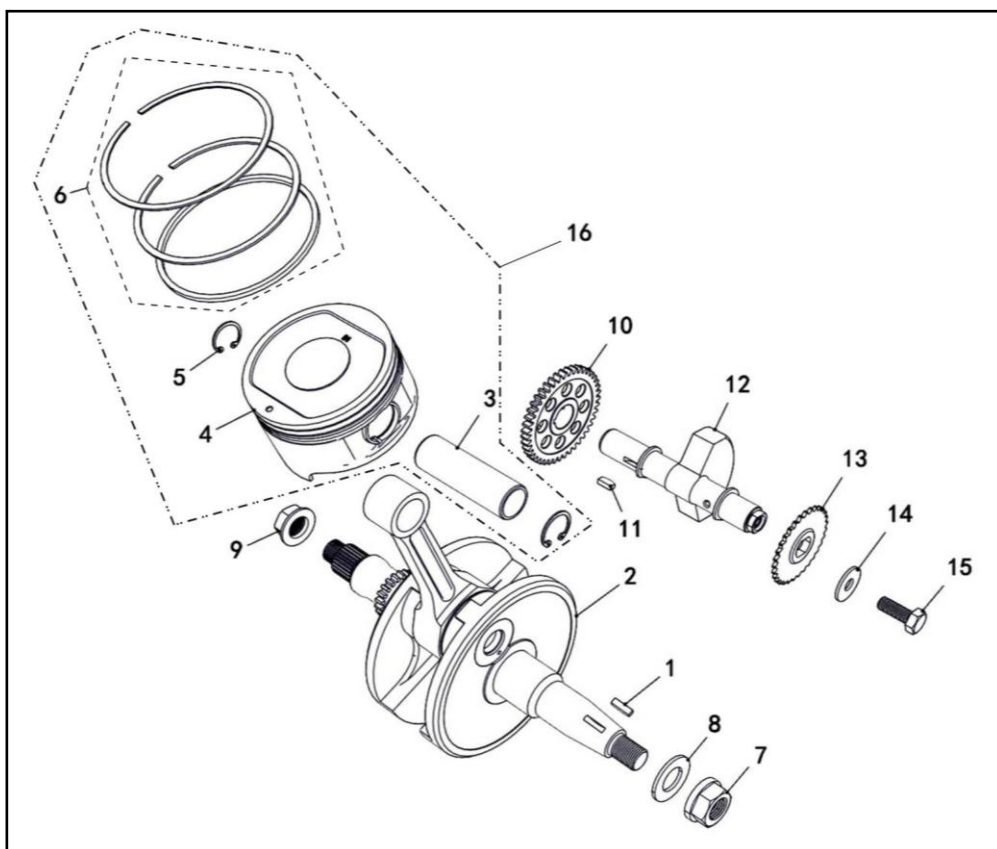


Ref. No.	Part No.	Description	Qty.
1	35970	Camshaft assembly	1
3	10835	Dowel pin, timing sprocket	1
4	35153	Retainer	1
5	10828	Bolt M6X10	2
6	35152	Camshaft spacer	1
7	35163	Timing chain	1

Cylinder

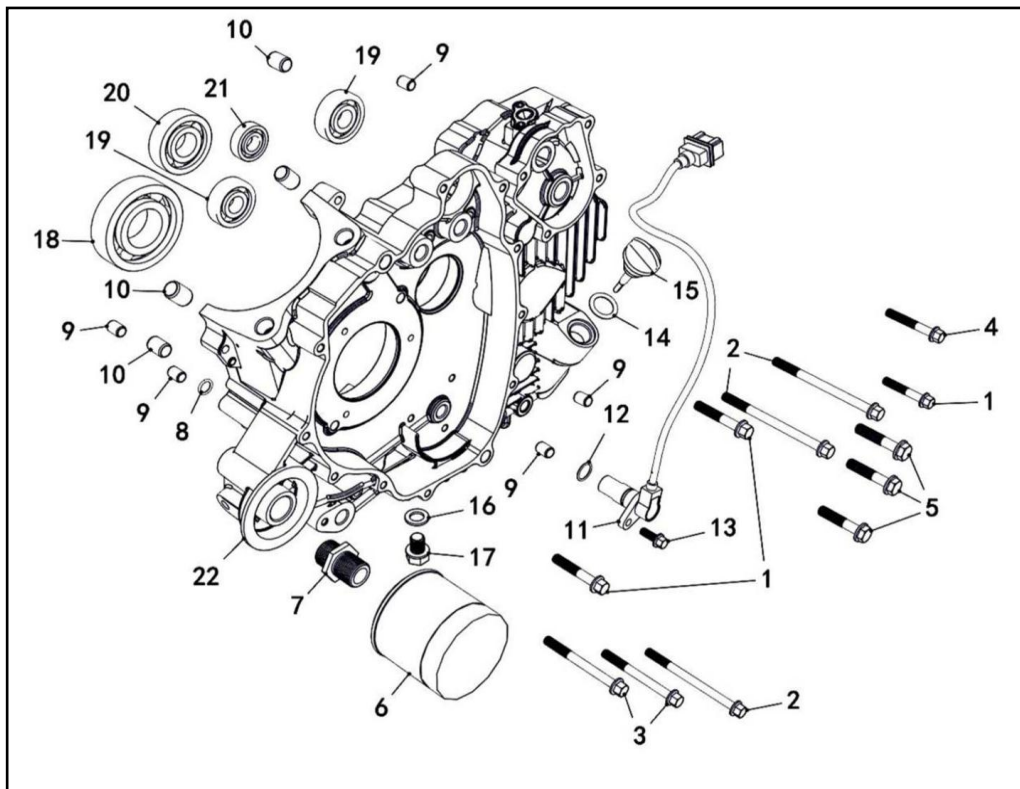


Ref. No.	Part No.	Description	Qty.
1	35116	Water inlet hose	1
2	35343	Clamp 20/32	2
3	35114	Joint, water inlet	1
4	35120	Gasket, cylinder	1
5	10278	Bolt M6×22	2
6	35119	Cylinder	1
7	35118	Dowel pin 13×18	2
8	35158	Gasket, tensioner	1
9	35157	Tensioner	1
10	11436	Bolt M6×25	4
11	35115	O-ring 24×2.5	1
12	35160	Tensioner plate	1
13	35162	Washer 8	1
14	35161	Bolt, tensioner plate	1
15	35159	Timing chain guide	1



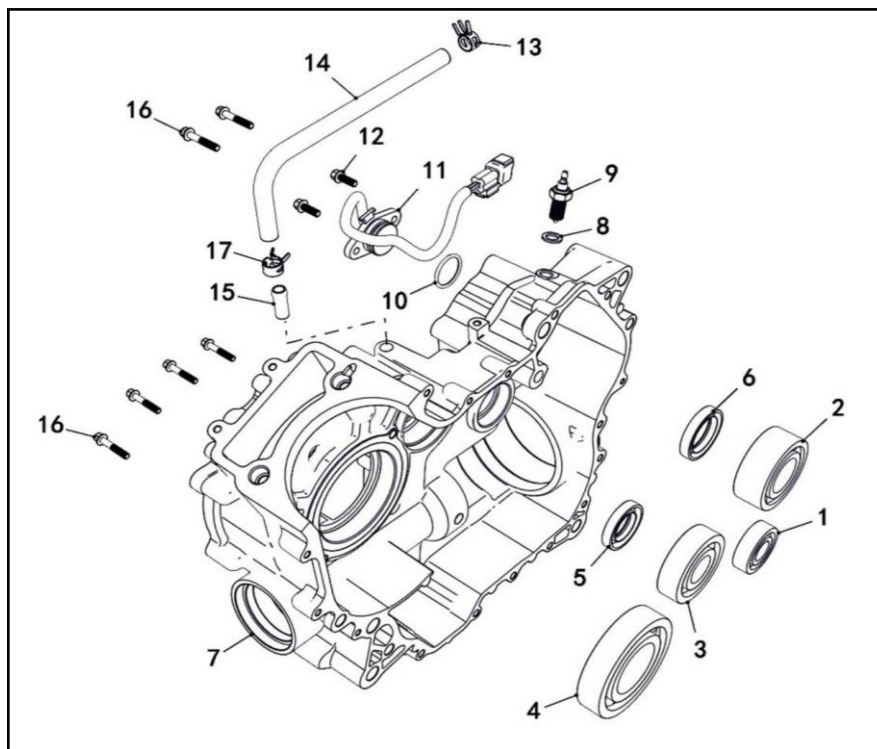
Ref. No.	Part No.	Description	Qty.
1	35133	Key	1
2	35121a	Crankshaft (new model)	1
3	35129	Clip, piston pin	2
4	35128	Piston pin	1
5	35127	Piston	1
6	35855	Piston ring 1-1	1
7	71688	Nut M16X1.5	1
8	71689	Washer 16.6	1
9	35122	Nut M18X1.5 (L)	1
10	35131	Gear, balancer shaft	1
11	35123	Key 1	1
12	35130	Balancer shaft	1
13	35132	Sprocket, balance shaft	1
14	35134	Washer 10.2x28x2	1
15	10028	Bolt M10X25	1
16	35859	Piston assembly	1

Left Crankcase



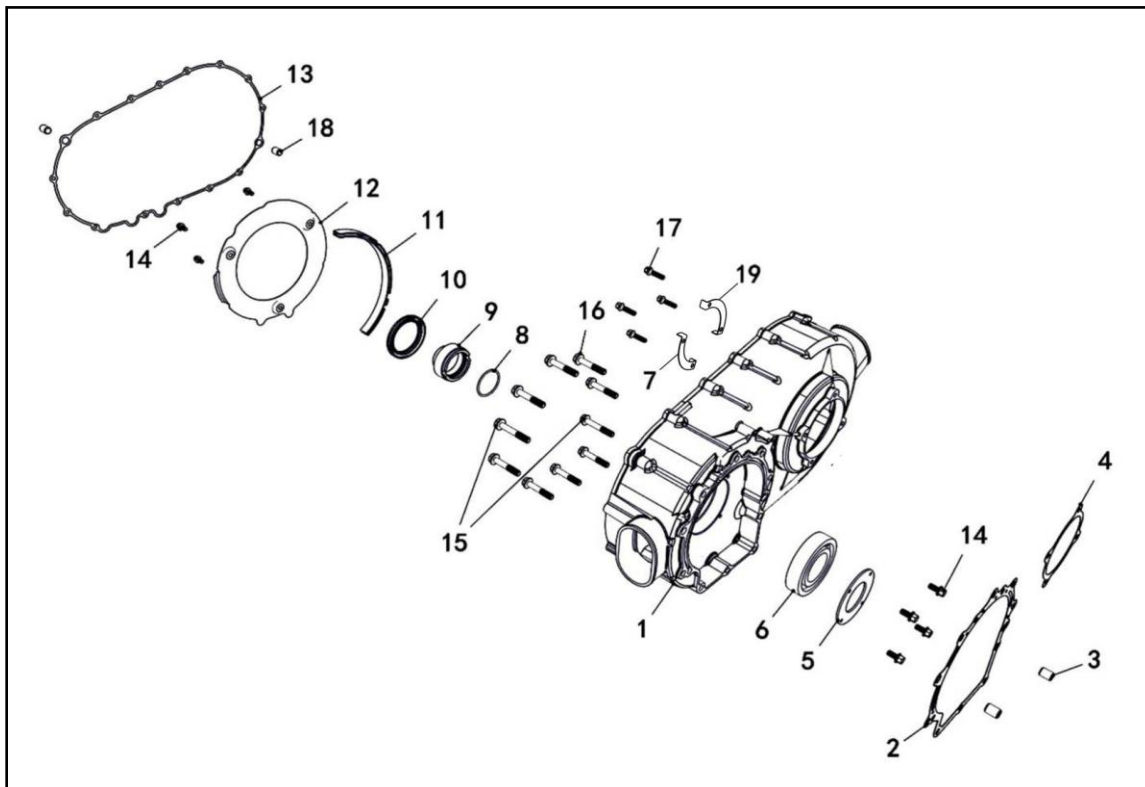
Ref. No.	Part No.	Description	Qty.
1	10186	Bolt M6×35	3
2	10827	Bolt M6×80	3
3	10005	Bolt M6×60	2
4	10177	Bolt M6×40	1
5	35221	Bolt M8×38	3
6	35223	Oil filter	1
7	35213	Bolt, oil filter	1
8	10843	O-ring 10×1.8	1
9	22422	Dowel pin 10×14	5
10	35118	Dowel pin 13×18	4
11	35337	Speed sensor	1
12	35225	O-ring 14×1.44	1
13	10189	Bolt M6×16	1
14	10844	O-ring 18×3.55	1
15	35224	Oil dip rod	1
16	1309283	Washer 12	1
17	50105	Drain bolt M12×1.5	1
18	10847	Bearing 6307	1
19	10846	Bearing 6303C3	2
20	10848	Bearing 63/22	1
21	10849	Bearing 6202	1
22	35216	Left crankcase	1

Right Crankcase



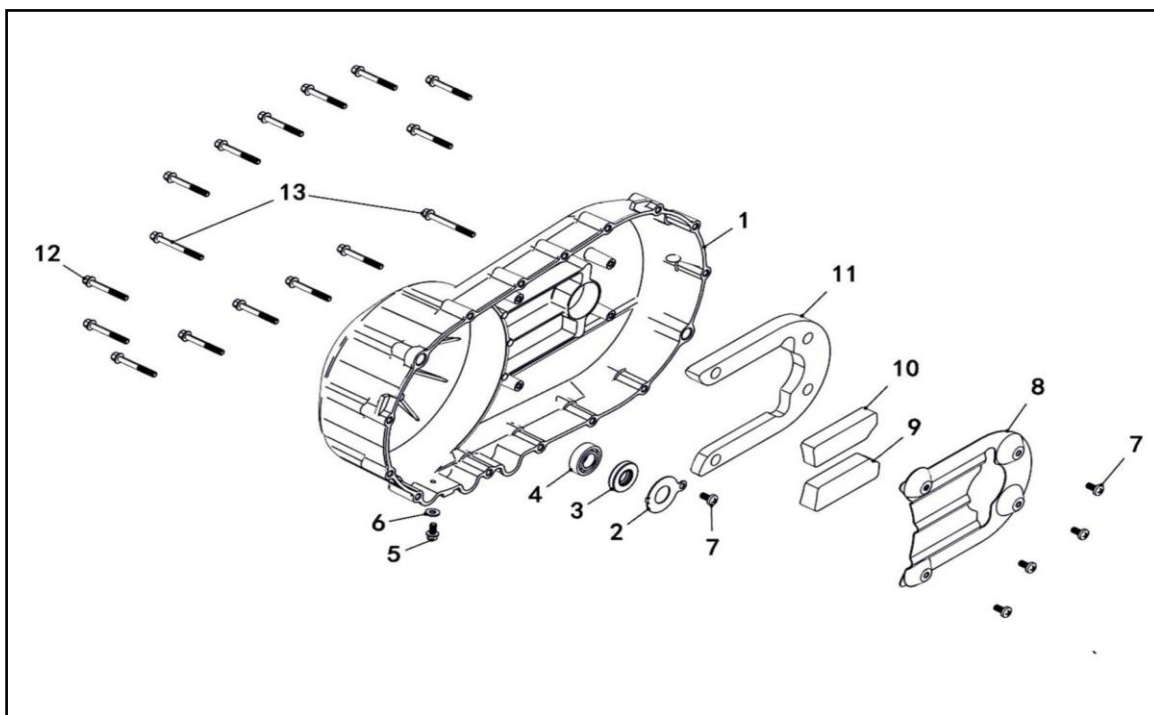
Ref. No.	Part No.	Description	Qty.
1	10851	Bearing 6203RS	1
2	10860	Bearing 5206C3	1
3	10848	Bearing 63/22	1
4	10850	Bearing 6208	1
5	35218	Oil seal 22×38×7	1
6	35222	Oil seal 30×45×7	1
7	35217	Right crankcase	1
8	35227	Washer 10	1
9	35339	Reverse gear sensor	1
10	35226	O-ring 26×2.5	1
11	35338	Gear position sensor	1
12	10191	Bolt M6×18	2
13	10845	Clamp A12	1
14	35220a	Breather hose	1
15	35219	Joint, breather hose	1
16	10186	Bolt M6×35	6
17	11079	Clamp A13	1

CVT Housing



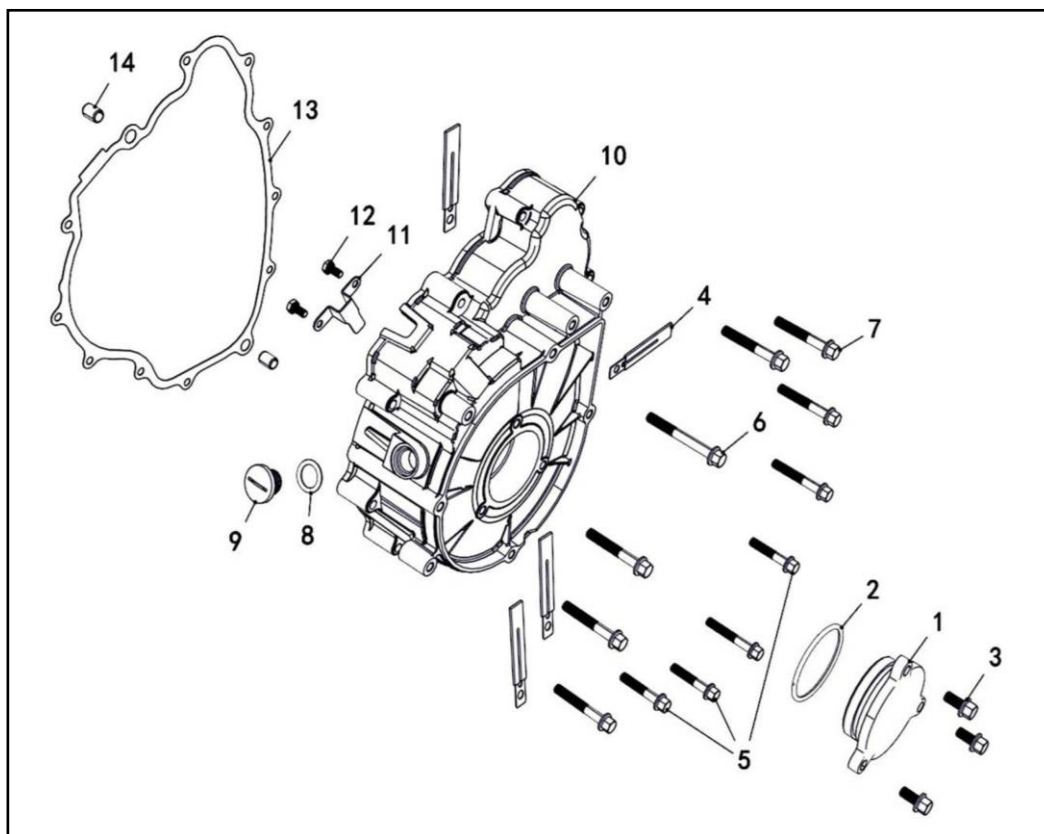
Ref. No.	Part No.	Description	Qty.
1	35235	CVT housing	1
2	35238	Gasket 1, CVT housing	1
3	22422	Dowel pin 10×14	2
4	35239	Gasket 2, CVT housing	1
5	35236	Bearing retainer, CVT	1
6	10852	Bearing 6208RS	1
7	36490	Plate 1	1
8	35229	O-ring 39×2.3	1
9	35228	Spacer, drive shaft	1
10	35251	Oil seal 54×70×8	1
11	35533	Rubber strip	1
12	35237	Plate, air intake	1
13	35231	Gasket, CVT cover	1
14	10140	Bolt M6×12	7
15	35232	Bolt M8×50	2
16	35233	Bolt M8×45	8
17	11401	Bolt M6×25	4
18	35118	Dowel pin 13×18	2
19	36491	Plate 2	1

CVT Cover



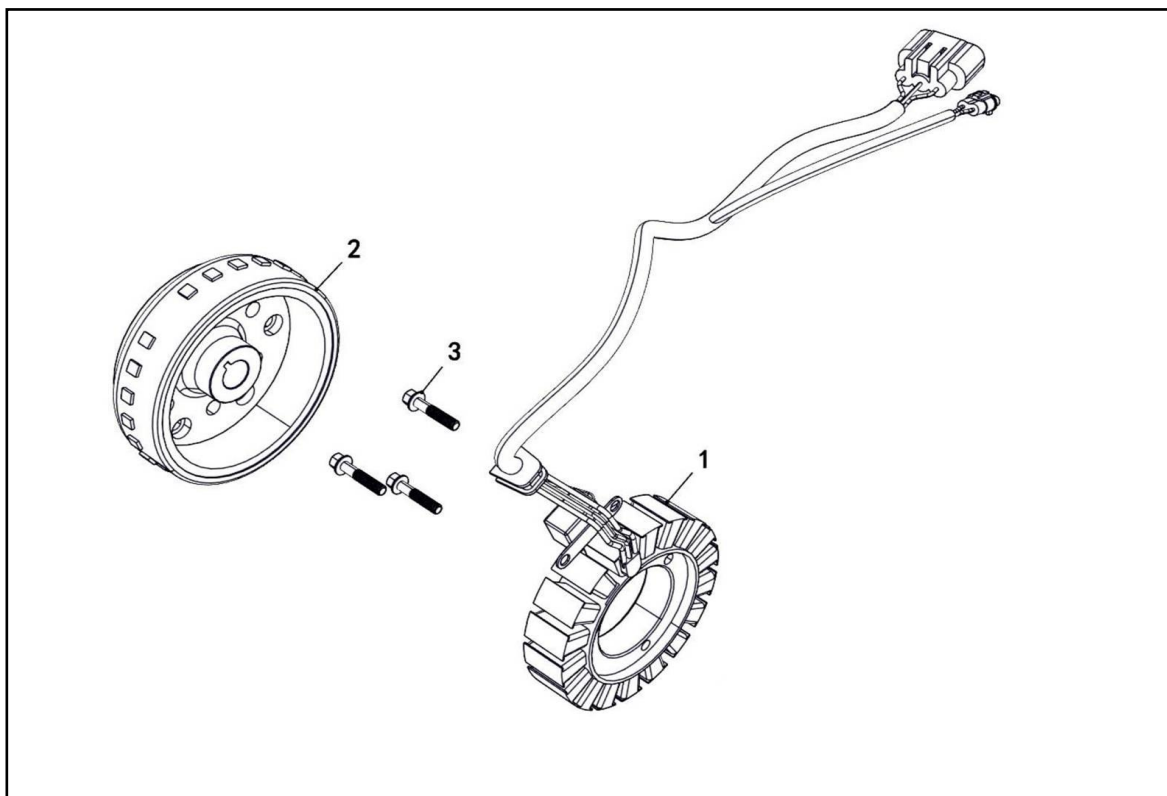
Ref. No.	Part No.	Description	Qty.
1	35230	CVT cover	1
2	35253	Limitator, oil seal	1
3	35252	Oil seal 17×35×5	1
4	10853	Bearing 6003/P6	1
5	10826	Bolt M6×10	1
6	35108	Washer 6	1
7	26262	Screw M6×12	5
8	35254	Damper plate	1
9	35257	Rubber damper 3	1
10	35255	Rubber damper 1	1
11	35256	Rubber damper 2	1
12	29503	Bolt M6×45	14
13	10530	Bolt M6×55	2

Left Crankcase Cover

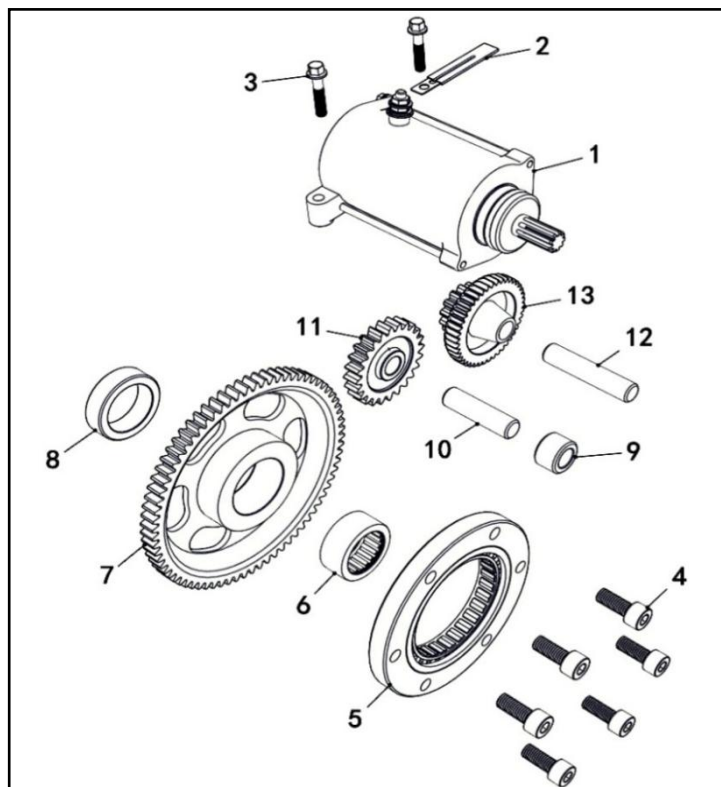


Ref. No.	Part No.	Description	Qty.
1	35537	End cap	1
2	10039	O-ring 46.5×2.65	1
3	11435	Bolt M6×12	3
4	35247	Cable clamp	4
5	10329	Bolt M6×32	3
6	10349	Bolt M6×50	1
7	10177	Bolt M6×40	8
8	35250	O-ring 12×2.8	1
9	35249	Plug, inspection	1
10	35234	Left crankcase cover	1
11	35246	Lead holder	1
12	10829	Bolt M5×10	2
13	35244	Gasket, left crankcase cover	1

Generator

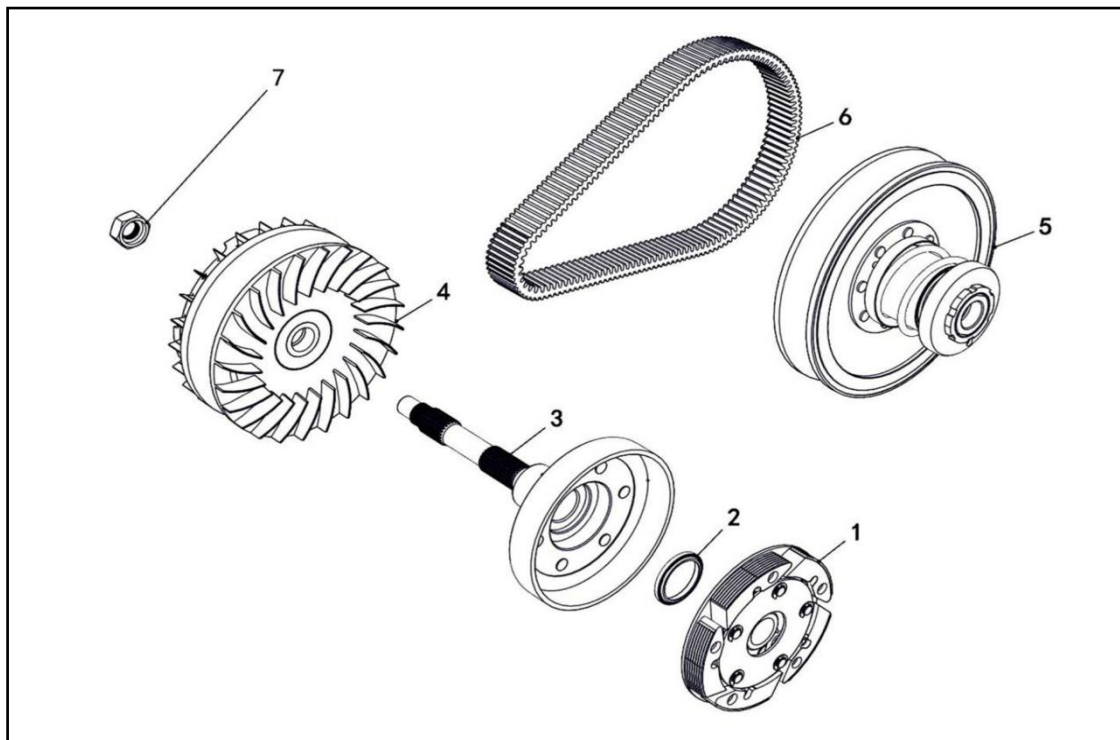


Ref. No.	Part No.	Description	Qty.
1	35334e	Stator assy	1
2	35335e	Rotor assy	1
3	11437	Bolt M6×30	3

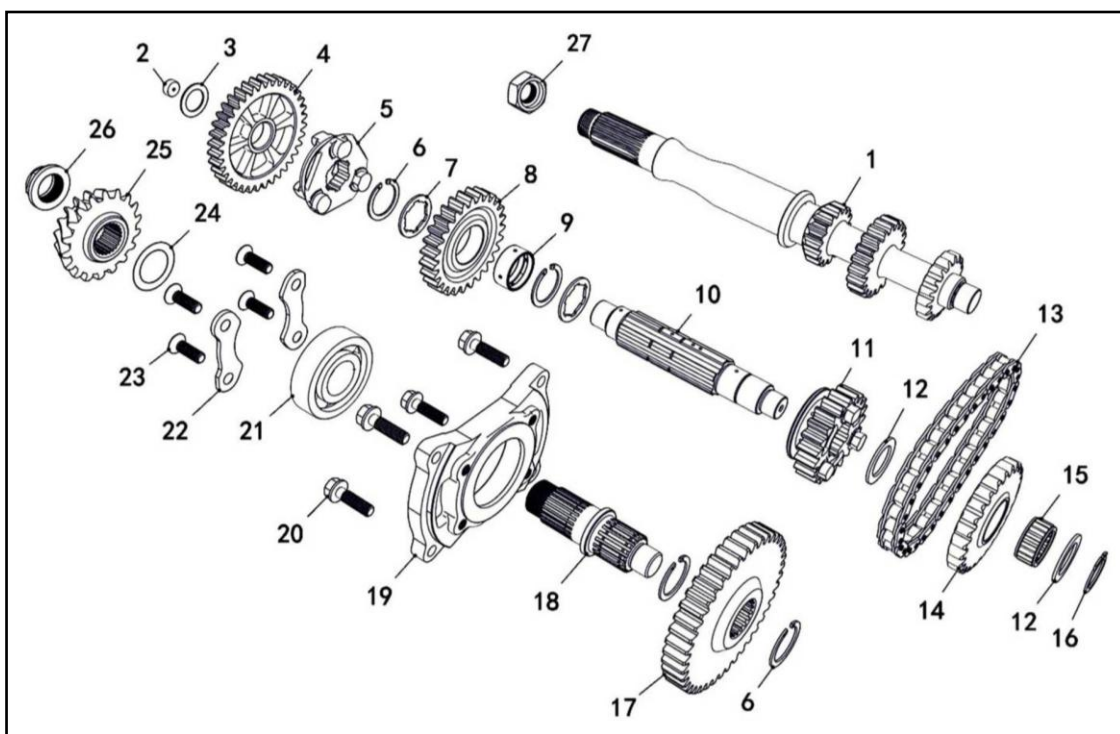


Ref. No.	Part No.	Description	Qty.
1	35336	Starting motor	1
2	35247	Cable clamp	1
3	10182	Bolt M6×30	2
4	10830	Screw M8×20	6
5	35265	Starter clutch	1
6	10859	Needle bearing RNA49/22	1
7	35260	Output gear assy	1
8	35259	Spacer	1
9	35264	Idle gear bushing	1
10	35262	Idle gear shaft	1
11	35263	Idle gear	1
12	35261	Axle, dual gear	1
13	35258	Dual gear	1

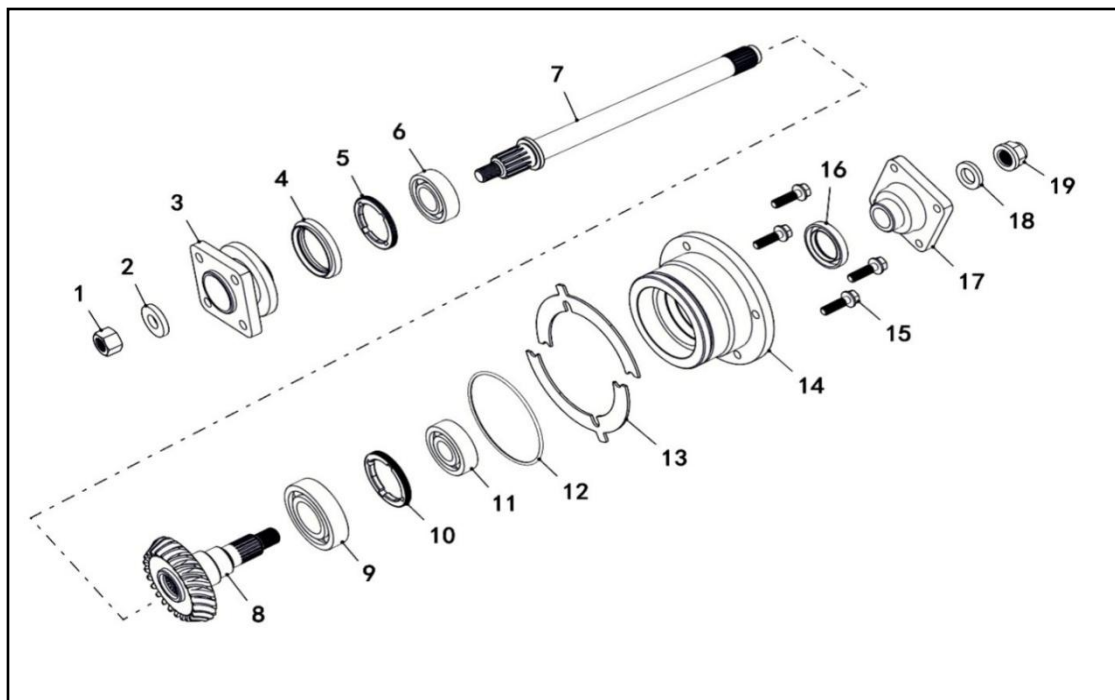
Clutch



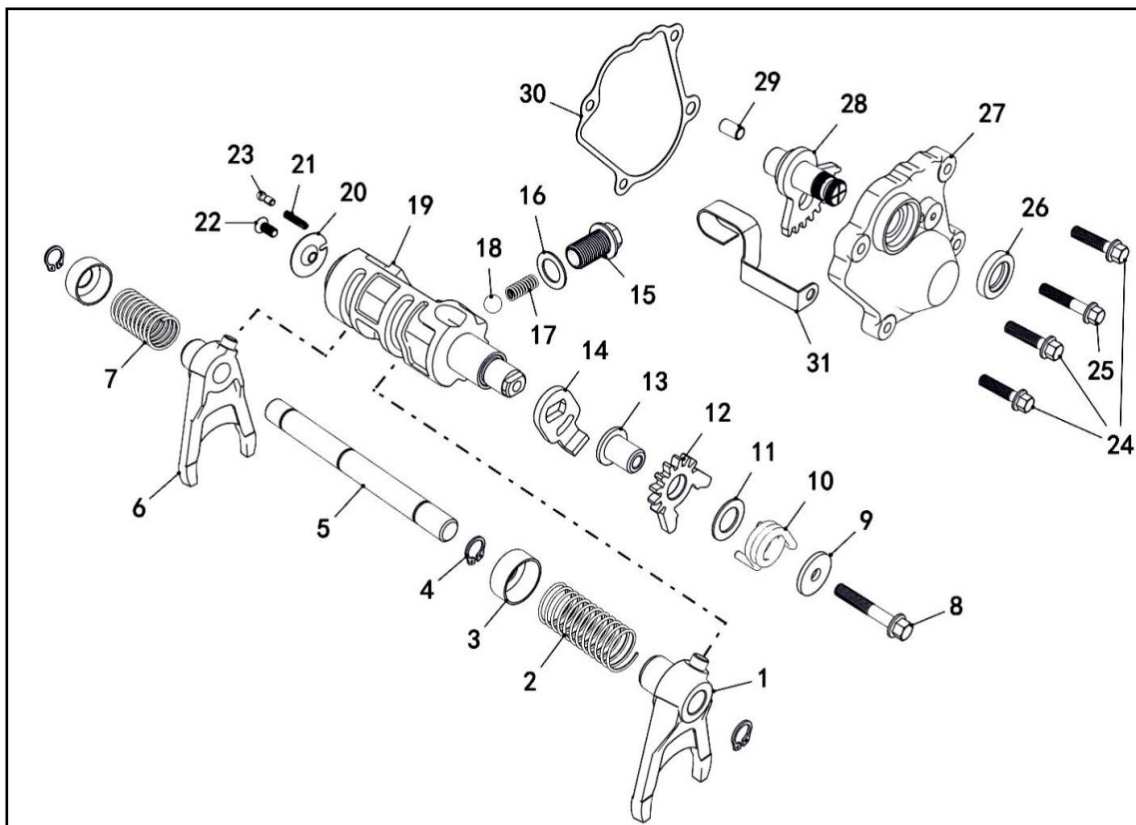
Ref. No.	Part No.	Description	Qty.
1	35296	Clutch carrier assy	1
2	35293	Oil seal 38×46×4/6, end face	1
3	35295	Clutch housing assy	1
4	35298	Drive assy comp	1
5	35299a	Driven assy comp	1
6	35297	V-belt	1
7	35294	Nut M20×1.5	1



Ref. No.	Part No.	Description	Qty.
1	35320	Main shaft, gearshift	1
2	35309	Bell plug 12	1
3	35307	Washer 17.5×26×1	1
4	35318	Driven gear, low range	1
5	35314	Sliding bush, gearshift	1
6	35311	Circlip 25	2
7	35310	Spline washer	2
8	35316	Driven gear, high range	1
9	35317	Bushing, driven high range gear	1
10	35315	Driven shaft	1
11	35308	Driven output gear	1
12	35312	Washer 20.5×30×1.5	2
13	35313	Chain, reverse gear	1
14	35319	Sprocket, reverse gear	1
15	10858	Needle bearing K20×26×12	1
16	24407	Circlip 20	1
17	35271	Output driven gear	1
18	35276	Drive bevel gear shaft	1
19	35274	Bearing seat, drive bevel gear	1
20	35286	Bolt M8×28	4
21	10855	Bearing 6305C3	1
22	35287	Bearing limit	2
23	11517	Screw M8×25	4
24	35277	Adjust washer, drive bevel gear	1
25	35272	Drive bevel gear	1
26	35275	Locknut, bevel gear	1
27	35294	Nut M20×1.5	1

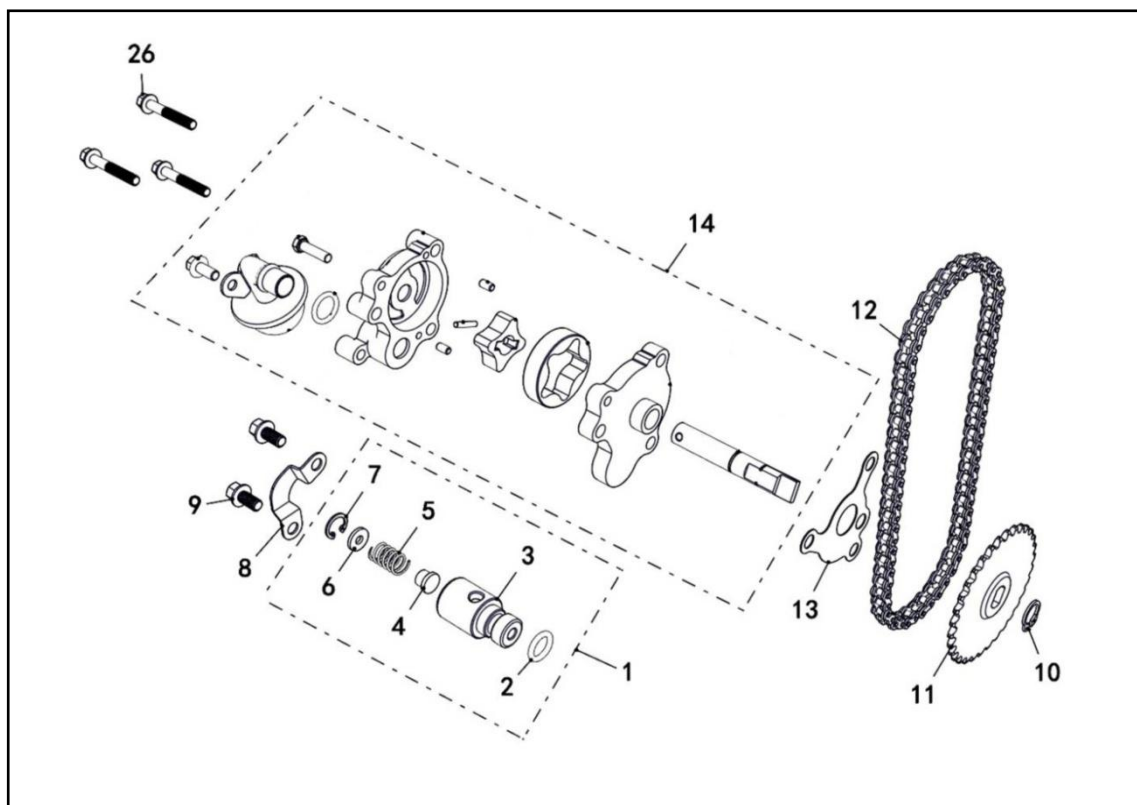


Ref. No.	Part No.	Description	Qty.
1	10837	Nut M14×1.5-10	1
2	35292	Washer, front transmission output shaft nut	1
3	35290	Coupler, front transmission output	1
4	35289	Oil seal 44×60×6.7/10	1
5	35291	Bearing retainer, front output shaft	1
6	10267N	Bearing 6205	1
7	35288	Front output shaft	1
8	35273	Driven bevel gear	1
9	10856	Bearing 6207/P63	1
10	35282	Bearing limit nut	1
11	10848	Bearing 63/22	1
12	35279	O-ring 88×2.4	1
13	35280	Adjust washer, driven bevel gear	2
14	35278	Bearing seat, driven bevel gear	1
15	35286	Bolt M8×28	4
16	35281	Oil seal 30×46×7	1
17	35283	Coupler, rear transmission output	1
18	35284	Washer, rear output shaft nut	1
19	35285	Nut, rear output shaft	1



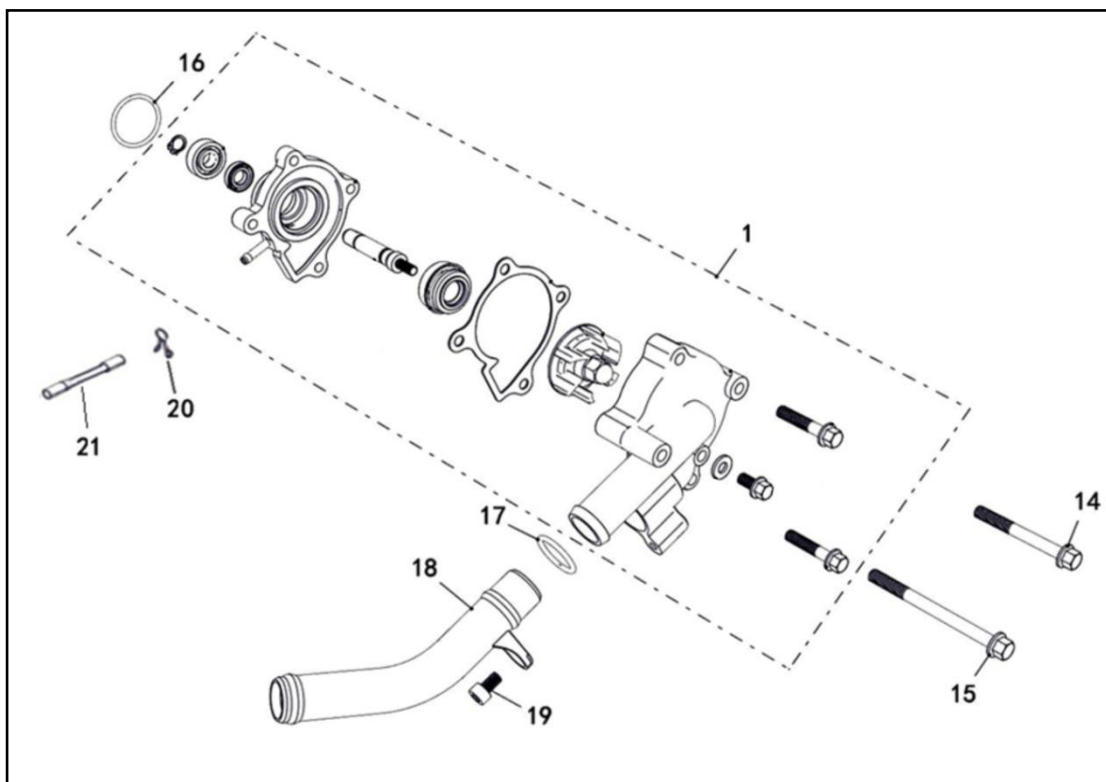
Ref. No.	Part No.	Description	Qty.
1	35330	Left shift fork	1
2	35327	Spring 1, shift fork	1
3	35326	Spring seat	2
4	10129	Circlip 12	3
5	35333	Guide bar	1
6	35329	Right shift fork	1
7	35328	Spring 2, shift fork	1
8	11438	Bolt M6×35	1
9	35306	Washer 6.6×22×2	1
10	35305	Torsion spring, driven sector gear	1
11	35304	Washer 13.5×22×1	1
12	35301	Driven sector gear	1
13	35302	Shaft, driven sector gear	1
14	35303	Washer, driven sector gear	1
15	35325	Hole bolt M14×1.5	1
16	35324	Washer 14×22×1	1
17	35332	Limit spring	1
18	10842	Friction ball 3/8	1
19	35331	Shift cam	1
20	35323	Limit washer	1
21	35322	Spring, gear contactor	1
22	10135	Screw M5×12	1
23	35321	Gear contactor	1
24	10187	Bolt M6×25	3
25	10329	Bolt M6×32	1
26	35242	Oil seal 15×25×5	1
27	35240	Cover, sector gear housing	1
28	35300	Weld part, drive sector gear	1
29	50076	Dowel pin 8×14	1
30	35241	Gasket, sector gear housing	1
31	35243	Clip	1

Oil Pump



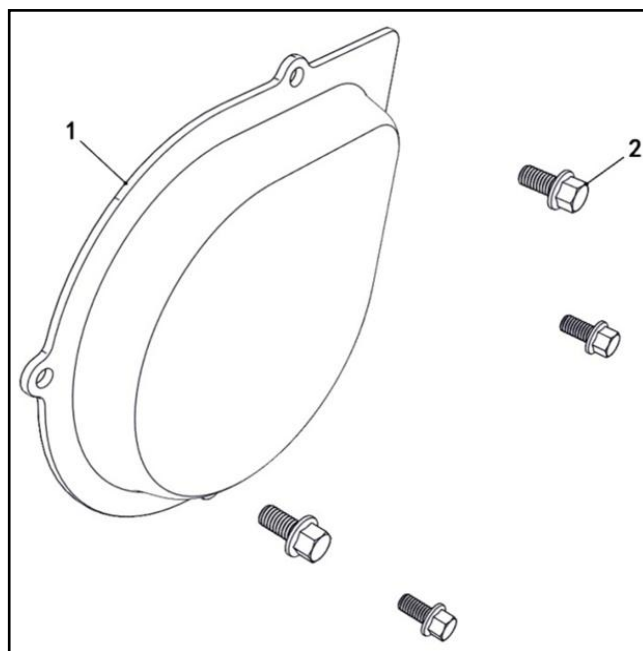
Ref. No.	Part No.	Description	Qty.
1	35197	Relief valve	1
2	35200	O-ring 10×2.3	1
3	35198	Relief valve body	1
4	35199	Oil plug, relief valve	1
5	35201	Spring relief valve	1
6	35202	Spring washer	1
7	10838	Circlip 12	1
8	35203	Pressure strip, relief valve	1
9	11435	Bolt M6×12	2
10	10840	Circlip 11	1
11	35191	Sprocket, oil pump	1
12	35196	Chain, oil pump	1
13	35206	Gasket, oil pump	1
14	35195	Oil pump	1
26	11439	Bolt M6×40	3

Water Pump



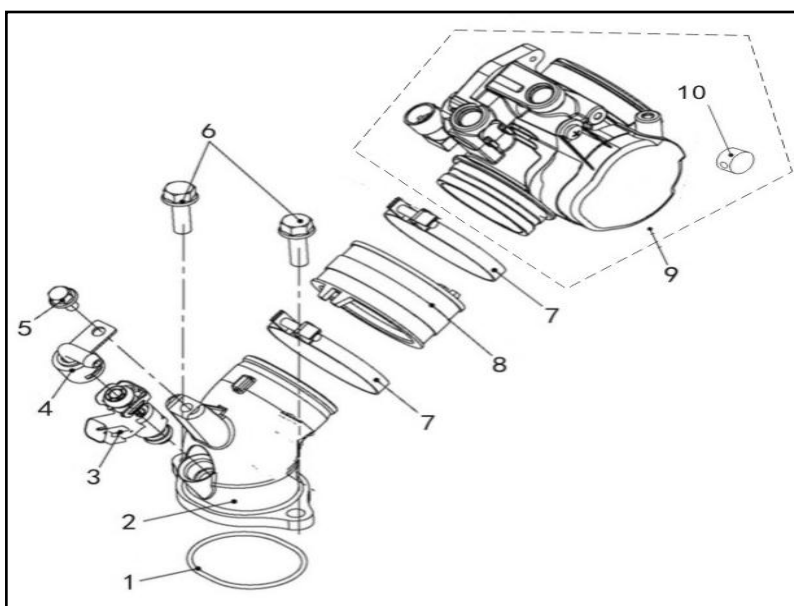
Ref. No.	Part No.	Description	Qty.
1	35179	Water pump assy	1
14	11440	Bolt M6×50	1
15	10160	Bolt M6×70	1
16	35174	O-ring 34×2.5	1
17	35182	O-ring 21×2.5	1
18	35181	Water outlet pipe	1
19	10831	Screw M6×10	1
20	48547	Hoop	1
21	48548	Pipe	1

Left Side Cover

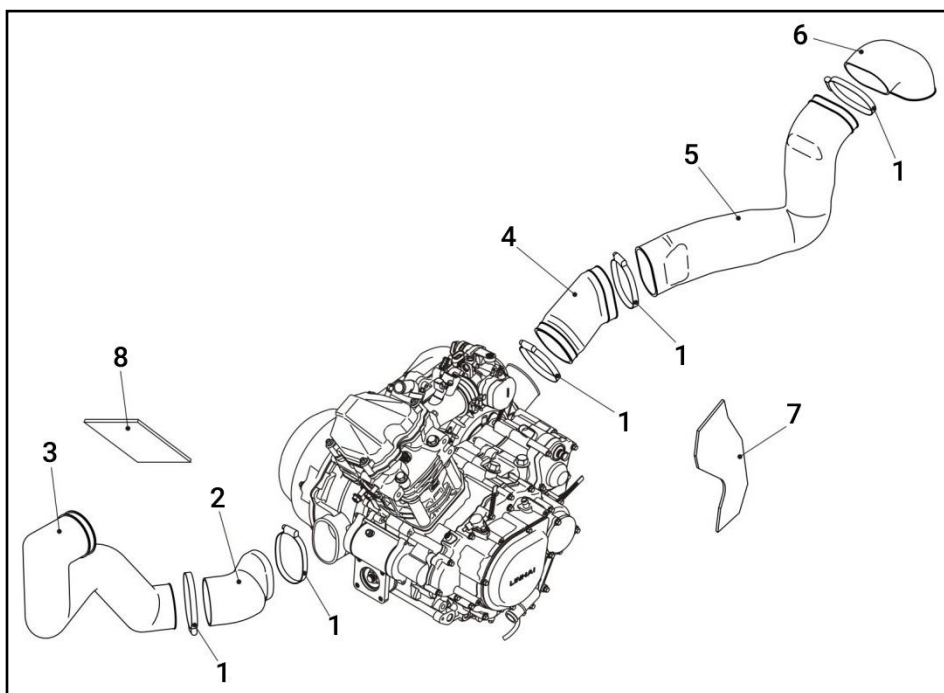


Ref. No.	Part No.	Description	Qty.
1	35270	Left side cover	1
2	11435	Bolt M6×12	4

Fuel Injection Assy

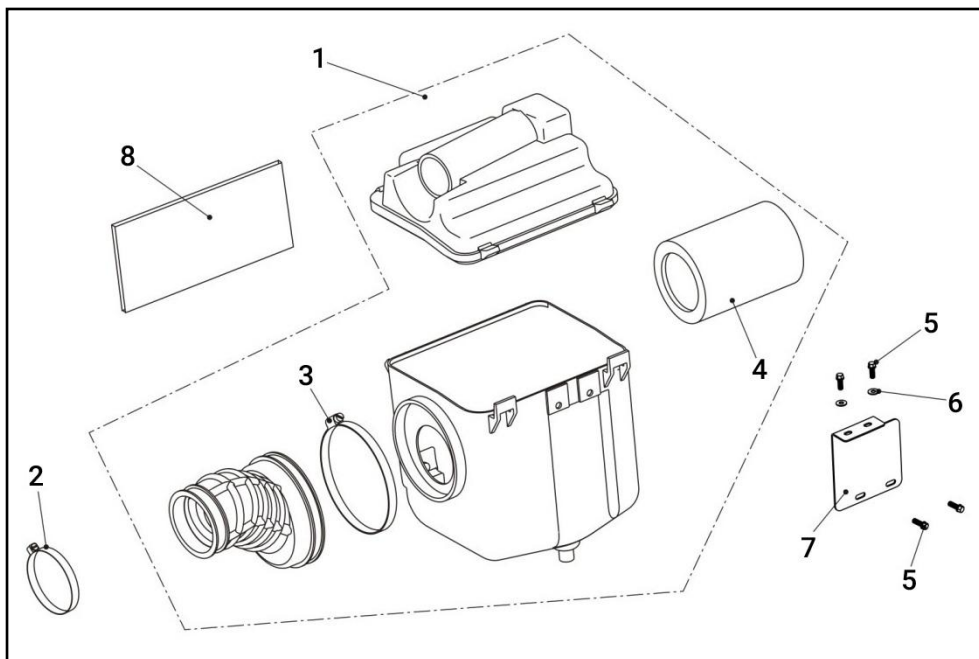


Ref. No.	Part No.	Description	Qty.
1	35207	O-ring 40×2.4	1
2	35744	Joint, carburetor	1
3	35745	Injector	1
4	73352	Injector cap	1
5	10716W	Bolt M6×10	1
6	10183B	Bolt M6×16	2
7	71849	Clip 64	2
8	71849	Joint, feed hose	1
9	36200	Throttle body assembly (mark "D46F-1")	1
10	38343	Throttle cable column cap	1



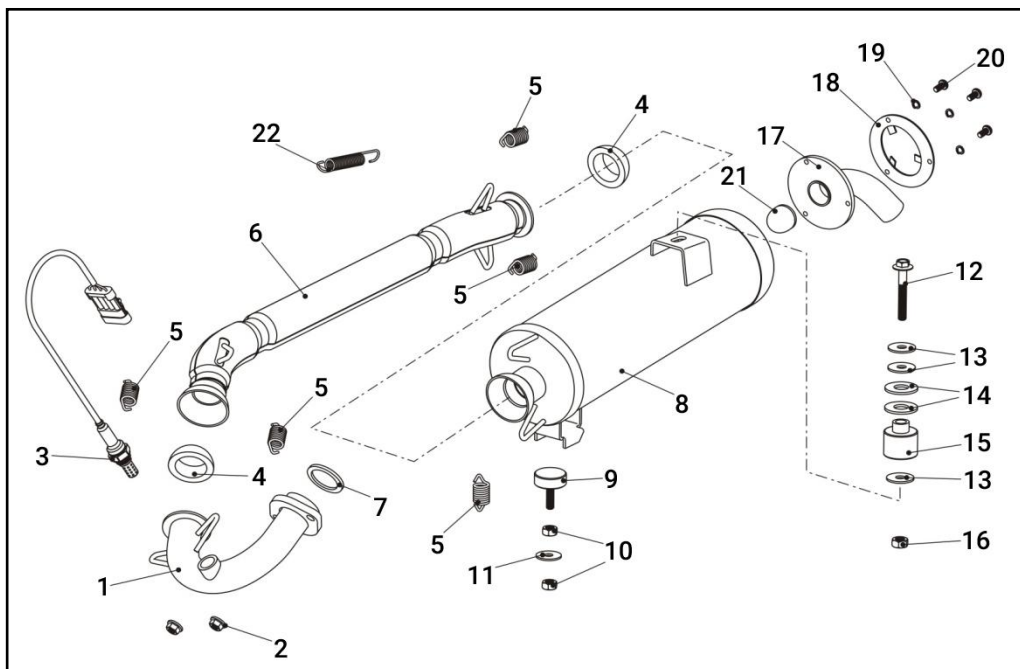
Ref. No.	Part No.	Description	Qty.
1	35670	Clamp 70/90	5
2	35346	Rubber joint air shroud 1, CVT	1
3	35347	Air shroud 1, CVT	1
4	35348	Rubber joint air shroud 2, CVT	1
5	35349	Air shroud 2, CVT	1
6	35350	Rubber joint air shroud 3, CVT	1
7	36534	Air shroud adiabatic pellicle	2
8	39008	Air shroud adiabatic pellicle 1	1

Air Cleaner



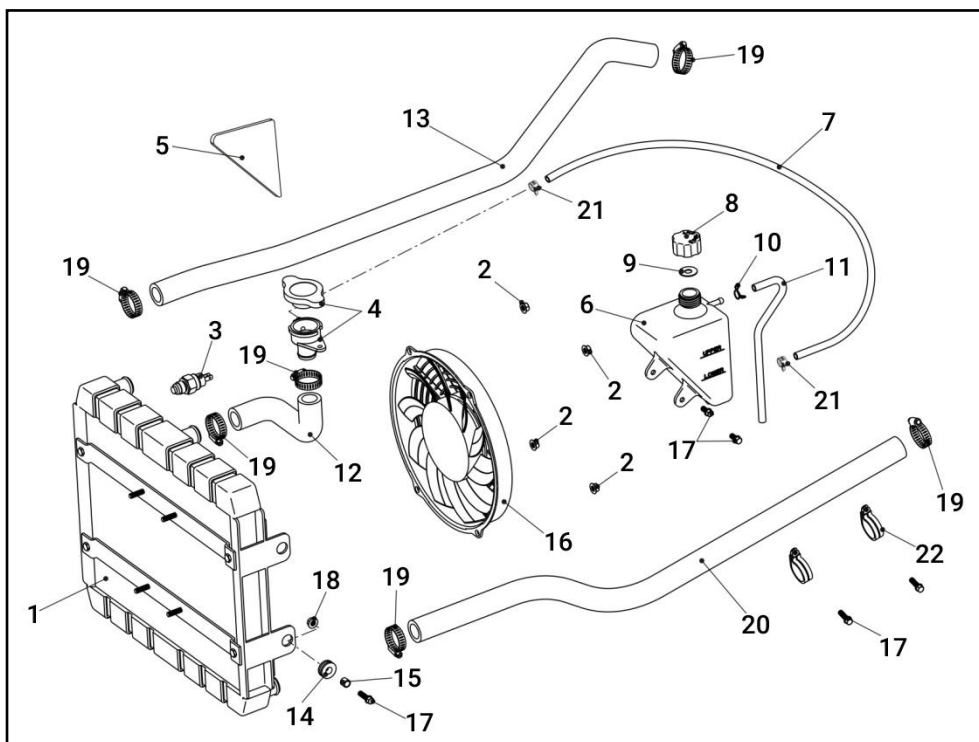
Ref. No.	Part No.	Description	Qty.
1	36521	Air cleaner assy	1
2	35747	Clip 1	1
3	35359	Clip 2	1
4	36522	Element comp air cleaner	1
5	10140B	Bolt M6×12	4
6	11973	Washer 6	2
7	39012	Air cleaner plate	1
8	36467	Air cleaner adiabatic pellicle	1

Exhaust



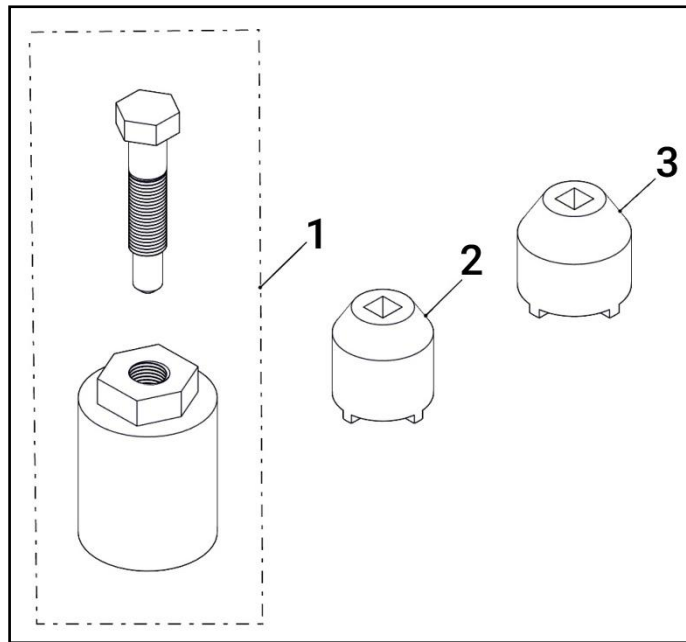
Ref. No.	Part No.	Description	Qty.
1	36138	Exhaust pipe	1
2	10794	Nut M8	2
3	70826	Sensor	1
4	35370	Joint	2
5	23408	Spring	5
6	39009	Exhaust pipe	1
7	35369	Exhaust pipe gasket	1
8	39010	Muffler	1
9	35345	Muffler support bottom	1
10	12003	Nut 8	2
11	11973	Washer 6	1
12	10120	Bolt flange M10×1.25×62	1
13	10117	Washer plate 10	3
14	39006	Washer	2
15	35344	Muffler support	1
16	10015	Nut M10×1.25	1
17	35850	Muffler tail pipe components	1
18	26364	Stopper plate	1
19	11534	Washer 6	3
20	10272	Bolt M6×16	3
21	26363	Spark arrestor screen / fire screen	1
22	25539	Spring 90	1

Radiator



Ref. No.	Part No.	Description	Qty.
1	35351	Radiator	1
2	11616	Nut M6	4
3	71932	Thermostat switch assy	1
4	22907a	Safety valve	1
5	36536	Tank recovery adiabatic pellicle	1
6	70340	Tank recovery	1
7	35353	Pipe, safety valve	1
8	70338	Cover, tank recovery	1
9	70339	Washer, tank recovery	1
10	43521	Clip 9	1
11	36532	Pipe, tank recovery	1
12	27888	Hose, radiator	1
13	35355	Hose, return	1
14	22917	Radiator side grommet	4
15	22918	Collar	4
16	35354	Blower assy	1
17	11459	Bolt M6×20	6
18	11615	Nut M6	4
19	36528	Clamp 32/50	6
20	39002	Hose, feed	1
21	71358	Clip 13	2
22	37128	Clamp 35	2

Accessory



Ref. No.	Part No.	Description	Qty.
1	80129	Rotor assy puller	1
2	80130	Bearing retainer, front output shaft, nut wrench	1
3	80131	Bearing limit nut, nut wrench	1

WARRANTY INFORMATION:

Please refer to our website for detailed warranty conditions and coverage.
For the most up-to-date and comprehensive warranty information, visit www.tmgindustrial.com