

493cc UTV Camo/Orange/Green



⚠ 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

Introduction

Congratulations on the purchase of your Utility Vehicle (UTV). We are proud to provide this utility vehicle, engineered and manufactured to strict high-performance and quality standards. We are sure that you will enjoy superior levels of performance, reliability, riding comfort, and safety.

This manual helps owners and operators learn the operating characteristics and built-in features of this UTV. The manual also covers information on the care and maintenance of your UTV.

Please read this manual carefully. Information from this owner's manual and all vehicle warning labels will guide you in safe operation and proper maintenance of this UTV. Ensure you read and comply with all warnings and instructions contained in this document.

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

Important Safety Notice

- This vehicle is designed solely for off-road use.
- Verify all local, state and national off-road vehicle laws before operating this machine. Operating this UTV on public lands that ban vehicles of this size is illegal.
- Never modify the engine, drivetrain, mechanical or electrical systems of your UTV in any way. Do not install aftermarket parts or performance accessories designed to raise the vehicle's speed or power output.
- Failure to comply with these warnings raises the risk of accidents that may result in serious injury or fatalities.
- In addition, non-compliance with these requirements will void your vehicle's warranty.

Note: Installing and using certain accessories — including but not limited to mowers, snow blades, sprayers, winches and windshields - will alter the vehicle's handling and performance characteristics.

Practice Responsible UTV Riding

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

Remember: Respect your vehicle, protect the natural environment, and respect the private property of others. You are fully responsible for your own safety and the safety of all nearby people during operation.

UTV operation carries unique hazards; this machine handles differently from motorcycles, ATVs and passenger vehicles. Collisions or rollovers may happen suddenly during basic maneuvers (turning, hill climbing, crossing obstacles) if proper safety precautions are ignored.



Serious injury or death can result if you do not follow these instructions.

- Read this manual and all labels carefully and follow the operating procedures described.
- This vehicle seats one driver and one passenger only. Do not transport any passengers inside the cargo bed.
- Always be sure the driver and passenger are wearing seat belts.
- No person under 16 years of age may operate this UTV.
- Do not let any guest operate the UTV unless they have fully read this manual and all safety labels on the vehicle.
- The driver and passenger shall wear properly fitted, DOT-approved off-road motorcycle helmets. The driver and passenger

should also wear eye protection (goggles or face shields), gloves, boots, long-sleeved shirts or jackets, and long pants.

- Like all off-road vehicles, this UTV carries a risk of tipping or rolling over under specific terrain conditions. Uneven ground, side slopes, excessively fast or sharp turns, or a combination of these conditions all increase rollover risk. If the vehicle begins to tip, keep all arms and legs fully inside the cockpit. Do not attempt to stop the vehicle from tipping using your limbs. You could be severely injured. Any body part trapped under the vehicle may result in crushed limbs or permanent severe injury. You must keep your arms and legs inside the vehicle until it has stopped moving.
- Do not consume alcohol, recreational drugs or prescription impairing medication before or during vehicle operation.
- Never drive at excessive speeds; match your travel speed to terrain, visibility, weather and your skill level.
- Do not perform wheelies, jumps or any other dangerous stunts with this vehicle.
- Complete a full pre-ride inspection every time before operating the UTV to confirm safe working order. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Keep both hands, arms, feet and legs fully inside the vehicle cockpit while driving. Keep both feet planted on the floorboards. Do not grip the roll cage frame except for the dedicated interior handholds. Limbs caught between the roll cage and external obstacles may cause crushing lacerations.
- Always keep both hands on the steering wheel when driving.
- Do not wrap your thumbs or fingers around the steering wheel spokes. This rule is critical on rough terrain: front wheels shift side-to-side over uneven ground and transfer sudden jolts to the steering wheel. Sudden terrain impacts can jerk the steering wheel violently, crushing thumbs or fingers trapped against wheel spokes.
- Reduce speed and exercise extreme caution on unfamiliar terrain; continuously watch for changing ground conditions.
- Avoid operation on extremely rutted, slippery or loose gravel/mud terrain.
- Always follow proper procedures for turning as described in this manual. Practice low-speed turning before attempting faster maneuvers; never take turns at high speed.
- Take the UTV to an authorized service dealer for a full inspection after any collision or rollover incident.
- Do not drive the UTV up slopes steeper than the vehicle's rated capacity or your personal skill level. 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. Do not apply sudden full throttle or shift gears abruptly; never crest hill summits 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. Never go down a hill at high speed. Avoid descending hills at an angle that tilts the vehicle sharply sideways; travel straight downhill whenever terrain allows.
- Follow the official side-hilling procedures outlined within this manual. Do not traverse side slopes with slippery or loose ground. Never attempt to reverse or turn the vehicle fully around while on any incline. 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 the engine stalls or the vehicle rolls backward while climbing, execute the emergency braking procedure detailed in this manual.
- Scan the route for obstacles before entering unfamiliar areas; do not drive over large boulders or fallen timber. Always follow proper procedures when operating over obstacles as described in this manual.

- Always be careful of skidding or sliding. Travel slowly and with extreme caution on slippery surfaces like ice to prevent uncontrolled skidding.
- Do not drive through deep or fast-flowing water exceeding the manufacturer's maximum safe depth rating. When crossing water, operate with gentle controls only: maintain steady forward speed, and avoid sharp turns, hard braking or sudden throttle changes.
- Wet brake pads deliver reduced stopping power. After exiting water, test brakes and lightly apply them repeatedly to dry the brake linings via friction heat.
- Before shifting into reverse, confirm no people or obstacles sit behind the vehicle. Reverse slowly and avoid sharp-angle backing turns.
- Only install tires matching the size and type specified in this manual, and maintain the factory-recommended cold tire pressure at all times.
- Never modify a UTV through improper installation or use of accessories.
- Never exceed the maximum rated cargo load. Position cargo as far forward in the bed as possible, with weight evenly distributed left and right. Secure all cargo tightly to prevent shifting during travel. Reduce driving speed when hauling cargo or towing a trailer, and extend braking distance significantly.

2. Understanding Warnings

WARNING:

This vehicle is for adult operators only. It is not a toy. Read and comprehend all safety warnings and this owner's manual prior to operation.



Fully familiarize yourself with all vehicle controls before operating!

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: All diagrams within this manual are for general reference only; your specific model may feature minor visual differences.

Safety Alert

WARNING labels denote critical instructions that may cause serious bodily harm or fatality if ignored or misfollowed. Read all WARNINGS in this manual carefully. Follow their instructions to remain safe.

This manual uses three standardized safety signal words to communicate hazard severity levels, defined below:



This triangle icon is the universal safety alert symbol. When you see this mark on the vehicle or in this manual, take immediate notice of potential bodily injury hazards.



WARNING

Identifies hazards that may cause severe permanent injury or fatalities.



CAUTION

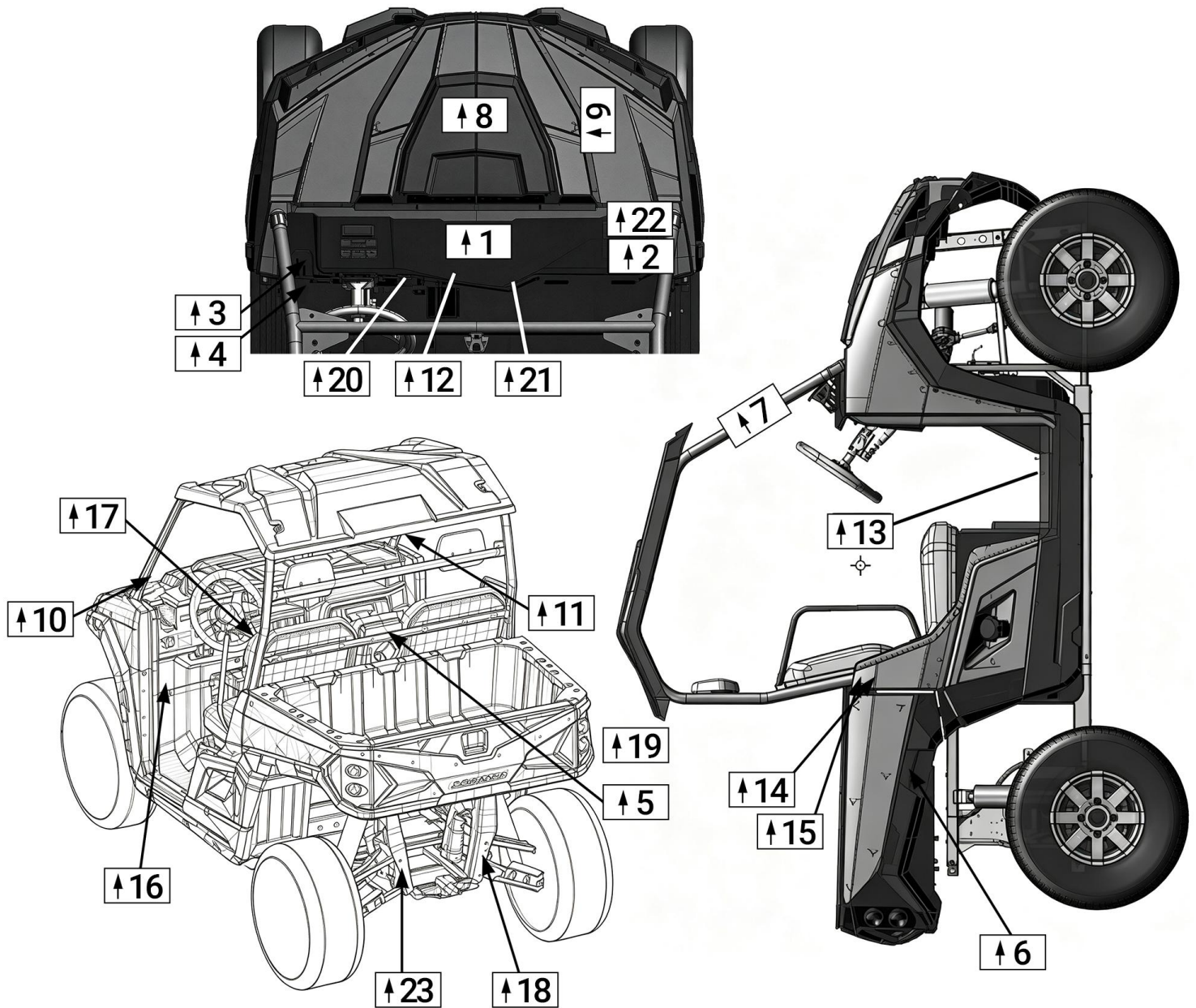
Identifies hazards that may cause minor personal injury or vehicle component damage.

Note

Identifies non-hazard critical operational information and maintenance reminders.

The label "NOTE" highlights key operational details and maintenance instructions across this manual.

3. Safety Warning



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 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.

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.

(1)



WARNING

Improper Use of Off-Highway Vehicles Can Cause Severe Injury or Death

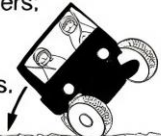
Be Prepared

- Fasten seat belts.
- Wear an approved helmet and protective gear.
- Reserved for message about other occupant restraint devices.
- Each rider must be able to sit with back against seat, feet flat on floor and foot rests, and hands on steering wheels, and handhold where equipped. Stay completely inside the vehicle.

Drive Responsibly

Avoid loss of control and rollovers;

- Avoid abrupt maneuvers, sideswiddling, skidding, or fishtailing, and never do donuts.
- Slow down before entering a turn.
- Avoid hard acceleration when turning, even from a stop.
- Plan for hills, rough terrain, ruts, and other changes in traction and terrain. Avoid paved surfaces.
- Avoid side hilling (riding across slopes).



Rollovers have caused severe injuries and death, even on flat, open areas.

Be Sure Riders Pay Attention and Plan Ahead

If you think or feel the vehicle may tip or roll, reduce your risk to injury:

- Keep a firm grip on the steering wheel or handholds and brace yourself.
- Do not put any part of your body outside of the vehicle for any reason.

Require Proper Use of Your Vehicle

Do your part to prevent injuries:

- Do not allow careless or reckless driving.
- Make sure operators are 16 or older with a valid driver's license.
- Do not let people drive or ride after using alcohol or drugs.
- Do not allow operation on public roads (unless designated for off-highway vehicle access)—collision with cars and trucks can occur.
- Do not exceed seating capacity: one passenger.



DRIVER UNDER 16

LOCATE AND READ THE OWNER'S MANUAL FOLLOW ALL INSTRUCTION AND WARNINGS

RESERVED FOR REFERENCE TO OTHER SOURCE OF SAFETY INFORMATION

T02741

(2)



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 : 7.0 psi (48.3kPa)
Rear : 7.0 psi (48.3kPa)
- **Maximum weight capacity: 694lbs (315kg)**

T02742

Note :

Maximum tire pressure-Front: 24psi(170kPa) ;

Rear: 22psi(150kPa)

(3)

 **WARNING**

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

T02743

(4)

NOTE

Check engine oil every 500kilometers (310 miles)

T02744

(5)

NOTE

Do not use cup holders while riding rough conditions.

T02745

(6)

 **WARNING**



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

T02051

(7)

**WARNING**

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

T02049

(8)

**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

(9)

**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

(10)

**WARNING**



You could be severely injured if you try to stop a vehicle tip over using your arm or leg, if vehicle starts to tip over. Keep arms and legs inside vehicle.
Slopes, uneven terrain, and turning too fast or sharp increase the risk of tip over.

T02054

(11)



⚠ WARNING

You could be severely injured if you try to stop a vehicle tip over using your arm or leg, if vehicle starts to tip over. Keep arms and legs inside vehicle.

Slopes, uneven terrain, and turning too fast or sharp increase the risk of tip over.

T02055

(12)

⚠ WARNING

To avoid transmission damage, shift only when vehicle is stationary and at idle.

T02783

(13)

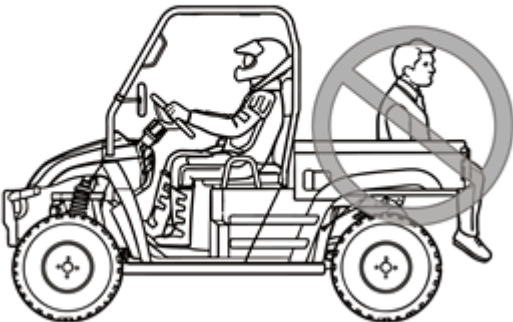
⚠ WARNING

Moving parts hazard under transmission shaft guard. To prevent serious injury, do not operate vehicle with guard removed.

T02057

NO STEP

(14)



⚠ WARNING

- Passengers can be thrown off. This can cause serious injury or death.
- Never carry passengers in cargo box.

T02056

(15)

 **WARNING**

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

- **Maximum Load in Cargo Bed:150kg(330lbs).**
- **Never carry passengers in cargo bed.**
- **Cargo can affect handling and stability.**

Read Owner's Manual before loading or towing.

- **When loading with cargo or towing a trailer: Reduce speed and allow more room to stop.Avoid hills and rough terrain.**
- **Be sure cargo is secured-a loose load could change handling unexpectedly.**
- **Keep weight in the cargo bed centered ,and as low and farfor ward as possible. Top-heavy loads increase the risk of overturn.**

T02746

(16)

 **WARNING**

- **Operate at a slow speed and allow extra time and distance for maneuvers to avoid loss of control.**
- **Do not switch on 4WD/2WD if the rear wheels are spining. This may cause severe machine damage.When switch on 4WD/2WD, the button will stay in 4WD/2WD position but 4WD/2WD mechanics maybe still disengaged.Always apply throttle gently and let the wheels move slightly to allow the 4WD/2WD mechanics finally engage.**
- **The 4WD/2WD indicator will come on when 4WD/2WD engaged.**

T02047

(17)



 **WARNING**

Always remove the vehicle's canopy prior to highway transportation via trailer. This eliminates risks of bodily injury and serious traffic collisions.

T02628

(18)

 **WARNING**

Pulling excessive loads can cause loss of stability or control of the vehicle.

Do not exceed the load capacity for the hitch.

Trailer Load Capacity of this vehicle is 450lbs /200kg and 25lbs/ 11kg tongue weight.

T02052

(19)

NOTE



Beware of side impact.

T02793

(20)

NOTE

Low range should be used instead of high range in the following cases, otherwise it may cause the damage to the vehicle.

- Keep driving at low speed (less than 7MPH or 11km/h)
- Heavy loading
- Rough road or climbing

T02821

(21)

NOTE

Locate and read the vehicle recovery electric winch owner's manual, and follow all instructions and warnings.

T02799

4. Daily Pre-Ride Inspection



WARNING

Complete a full pre-ride inspection before every use to confirm the UTV operates safely. Skipping this inspection raises the risk of severe injury or fatality.

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

Item/ Inspection Procedure

1. Tires – Inspect tread condition and cold inflation pressure.
2. Fuel Tank – Inspect for fuel leaks; fill fuel to the factory-specified level only.
3. All brakes – check fluid level, check operation, adjustment (includes parking brake).
 - Brake pedal
Verify proper brake pedal free play. Bring the vehicle to an authorized service dealer for adjustment if free play is out of specification. Check the operation of the brake pedal. It should move smoothly and there should be a firm feeling when the brakes are applied. If not, have the vehicle inspected by your dealer.
 - Brake fluid leakage
Check to see if any brake fluid is leaking out of the pipe joints or the brake fluid reservoir. Hold the brake pedal firmly for sixty seconds, then inspect all brake lines and master cylinders for fluid leakage. Service immediately if leaks are found.
 - Brake fluid level
Check the brake fluid level. Add fluid if necessary.
 - Brake operation
Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brake system.
4. Throttle Pedal – Test smooth movement, complete spring return and proper free play clearance.
Check to see that the accelerator pedal operates correctly. The pedal must move without binding and fully spring back to idle position once released. Have an authorized dealer repair as necessary for proper operation.
5. Headlights, Taillights & Brake Lights – Verify functionality of all lamps and control switches.
6. Engine stop switch – check for proper function.
7. Wheels & Axles – Verify all wheel lug nuts and axle retaining nuts are fully torqued and secured.
Check balance/ damage/ runout. Have an authorized dealer repair/ replace if necessary.
Inspect wheel bearing assemblies for looseness or physical damage. Have an authorized dealer replace if damaged.
8. Air Filter Element – Inspect for dirt/debris; clean or replace as needed.
9. Steering Assembly – Test full range of motion, and check for abnormal looseness or play at all connection points.
Park on level ground. Turn the steering wheel fully left and right to check for excess play, odd noises or grinding resistance.
Have an authorized dealer repair as necessary for proper operation.
10. Loose Fasteners – Visually scan the full vehicle for damaged parts or loose nuts, bolts and mounting hardware.
Verify all chassis hardware torque before every ride; consult an authorized dealer to apply factory-specified torque values.
11. Safety Gear – Confirm driver and passenger have properly fitted helmets, eye protection and protective riding apparel.
12. Engine Coolant – Verify fluid level within the overflow recovery tank markings.

13. Seat Belts — Inspect webbing for fraying, and test smooth retraction and secure latch engagement.

Make sure that both seat belts are not frayed or damaged. The seat belt must move smoothly when pulled out and retract on its own when released. The latch plate should click securely into the buckle and release when the release button is pushed firmly. Wipe mud and debris from latches and retractors; contact a service dealer to replace damaged seat belts.

5. Operation Warnings



WARNING

Potential Hazard

Improper handling of gasoline.

What Can Happen

Gasoline can catch fire and you could be burned.

How to Avoid the Hazard

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



WARNING

Potential Hazard

Checking the fuel system while smoking or near an open flame.

What Can Happen

Fuel can ignite or explode, causing severe injury or property damage.

How to Avoid the Hazard

Do not smoke when checking the fuel system. Make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.



WARNING

Potential Hazard

When transporting the vehicle in another vehicle, be sure it is kept in an upright position. Otherwise, fuel may leak out of the carburetor or fuel tank.

What Can Happen

Gasoline is poisonous and can cause injuries.

How to Avoid the Hazard

If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.



WARNING

Potential Hazard

Changing from 2WD to 4WD or vice versa while the vehicle is moving.

What Can Happen

The vehicle handles differently in 2WD than in 4WD, or vice versa. Shifting modes while moving may cause the vehicle's handling characteristics to change abruptly. This can distract the driver, raising the risk of loss of vehicle control and resulting in accidents.

How to Avoid the Hazard

Always stop the vehicle before changing from 2WD to 4WD, or vice versa.

 WARNING

Potential Hazard

Malfunction of the accelerator pedal.

What Can Happen

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

How to Avoid the Hazard

Check the operation of the accelerator pedal before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before operating the vehicle. Consult an authorized dealer if you cannot locate or resolve the fault on your own.

 WARNING

Potential Hazard

A loose seat.

What Can Happen

The operator could lose control or the operator or passenger could fall if the seat is loose during operation.

How to Avoid the Hazard

Make sure the seat is securely latched.

 WARNING

Potential Hazard

Not wearing the seat belt. Wearing the seat belt improperly.

What Can Happen

There is increased risk of being killed or seriously injured in an accident.

How to Avoid the Hazard

Always wear your seat belt when riding in the vehicle. Be sure the seat belt is close-fitting across your hips and chest and is latched securely.

 WARNING

Potential Hazard

Try to stop the tipping vehicle with your arm or leg.

What Can Happen

You could be severely injured. You could suffer a crushed hand, arm, leg, or foot.

How to Avoid the Hazard

You must keep your arms and legs inside the vehicle until it has stopped moving.

As with any off-road-capable vehicle, there is a risk of tip over or rollover under certain conditions. Uneven terrain or slopes which pitch the vehicle sideways, turning too fast or sharp, or a combination of conditions increase the risk of tip over.

If the vehicle begins to tip, keep all arms and legs fully inside the vehicle cockpit, do not try to stop tipping with your arm or leg. You could be severely injured. You could suffer a crushed hand, arm, leg, or foot, if part of your body is caught underneath the vehicle.

 WARNING

Potential Hazard

Pinch points.

What Can Happen

You or someone else could be pinched between the cargo bed and the frame when the bed is being lowered.

How to Avoid the Hazard

Before closing the bed, be sure others are standing away from the vehicle. Keep hands and fingers away from the pinch points between the bed and the frame.



WARNING

Potential Hazard

Overloading the cargo bed.

What Can Happen

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

How to Avoid the Hazard

Never exceed the stated maximum load limit for this cargo bed. Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo. Allow greater distance for braking.



WARNING

Potential Hazard

Carrying passengers in the cargo bed is prohibited.

What Can Happen

The passenger(s) could fall, be thrown out, or be struck by objects in the cargo bed.

How to Avoid the Hazard

Never carry passengers in the cargo bed. This cargo bed is intended solely for cargo transport.



WARNING

Potential Hazard

Improper shock absorber adjustment.

What Can Happen

Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

How to Avoid the Hazard

Always adjust the shock absorbers on the left and right side to the same setting.



WARNING

Potential Hazard

Driving with improperly operating brakes.

What Can Happen

You could lose braking ability, which could lead to an accident.

How to Avoid the Hazard

Always check the brakes at the start of every ride. Do not operate the vehicle if you find any problem with the brakes. If a problem cannot be corrected by the adjustment procedures provided in this manual, have the vehicle inspected by an authorized dealer.



WARNING

Potential Hazard

Improper care when refueling.

What Can Happen

Fuel can spill, which can cause a fire and severe injury. Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine or the sun.

How to Avoid the Hazard

Do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely.



WARNING

Potential Hazard

Removing the radiator cap when the engine and radiator are still hot.

What Can Happen

You could be burned by hot fluid and steam blown out under pressure.

How to Avoid the Hazard

Wait for the engine to cool before removing the radiator cap. Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.



WARNING

Potential Hazard

Operating vehicle without being familiar with all controls.

What Can Happen

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

How to Avoid the Hazard

Read the Owner's Manual carefully. If there is a control or function you do not understand, ask our authorized dealer.



WARNING

Potential Hazard

Freezing control cables in cold weather.

What Can Happen

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

How to Avoid the Hazard

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



WARNING

Potential Hazard

Improper overloading, hauling or trailer towing will alter vehicle handling stability.

What Can Happen

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

How to Avoid the Hazard

Never exceed the stated load capacity for this vehicle. Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.



WARNING

Potential Hazard

Servicing an engine while it is running.

What Can Happen

Moving parts can catch clothing or parts of the body, causing injury.

Electrical components can cause shocks or can start fires.

How to Avoid the Hazard

Turn off the engine when performing maintenance unless otherwise specified.

Have an authorized dealer perform service if you are not familiar with vehicle service.



WARNING

Potential Hazard

Operating this vehicle 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 vehicle through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine parts or equivalent components designed for use on this vehicle and should be installed and used according to instructions. If you have questions, consult an authorized dealer.



WARNING

Potential Hazard

Using low flash point solvents or gasoline to clean the sponge material.

What Can Happen

Low flash point solvents or gasoline can catch fire or explode.

How to Avoid the Hazard

Use parts cleaning solvent to clean the sponge material.



WARNING

Potential Hazard

Improper cleaning of the spark arrester. Hot exhaust system

What Can Happen

Could injure the eyes. Could cause burns.

Could cause carbon monoxide poisoning, possibly leading to death.

Could start a fire.

How to Avoid the Hazard

When cleaning the spark arrester: Always let the exhaust system cool prior to touching exhaust components.

Do not start the engine when cleaning the exhaust system.



WARNING

Potential Hazard

Operating with improperly serviced or adjusted brakes.

What Can Happen

You could lose braking ability, which could lead to an accident.

How to Avoid the Hazard

After servicing:

- Make sure the brakes operate smoothly and that the brake pedal position is correct.
- Make sure the brakes do not drag.
- All air must be bled from the brake system. Replacement of brake components requires professional knowledge. These procedures should be performed by an authorized dealer.

WARNING

Potential Hazard

Damaged control cables.

What Can Happen

Corrosion can result when the outer covering of control cables becomes damaged. Cables can also become frayed or kinked. Operation of controls could be restricted, which could cause an accident or injury.

How to Avoid the Hazard

Inspect cables frequently. Replace damaged cables.

WARNING

Potential Hazard

Failure to handle batteries or battery electrolyte carefully.

What Can Happen

You could be poisoned. You could be severely burned by the sulfuric acid in battery electrolyte. Batteries produce explosive gases.

How to Avoid the Hazard

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

Antidote:

- External: Flush with water.
- Internal: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Get prompt medical attention.
- Eyes: Flush with water for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using in a closed space.

WARNING

Potential Hazard

Using an improper fuse

What Can Happen

An improper fuse can cause damage to the electrical system, which could lead to a fire.

How to Avoid the Hazard

Always use a fuse of the specified rating. Never use a material in place of the proper fuse.

WARNING

Potential Hazard

Headlight bulbs remain extremely hot during operation and right after shutdown.

What Can Happen

You can be burned, or a fire could start if the bulb touches something flammable.

How to Avoid the Hazard

Wait for the bulb to cool before touching or removing it.



Potential Hazard

Operation with wet brakes after washing.

What Can Happen

Wet brakes may have reduced stopping ability, increasing the chance of an accident.

How to Avoid the Hazard

Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the linings.



Potential Hazard

Operating or riding this UTV without an approved safety helmet, eye protection and protective clothing.

What Can Happen

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

Operating/ riding 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

Operating this UTV 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 UTV.



Potential Hazard

Operating this UTV at excessive speeds.

What Can Happen

Increases your chances of losing control of the UTV, 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.



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.



WARNING

Potential Hazard

Failure to inspect the UTV before operating.

Failure to properly maintain the UTV.

What Can Happen

Increases the possibility of an accident or equipment damage.

How to Avoid the Hazard

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

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



WARNING

Potential Hazard

Removing hands from steering wheel or feet from footrests during operation.

What Can Happen

Removing even one hand or foot can reduce your ability to control the UTV or could cause you to lose your balance and fall off the UTV.

How to Avoid the Hazard

Always keep both hands on the steering wheel and both feet on the footrests of your UTV during operation.



WARNING

Potential Hazard

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

What Can Happen

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the UTV 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 UTV.



WARNING

Potential Hazard

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

What Can Happen

Could cause loss of traction or 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 UTV on such terrain.

Always be especially cautious on these kinds of terrain.

 WARNING

Potential Hazard

Climbing hills improperly.

What Can Happen

Could cause loss of control or cause UTV 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.

Never open the throttle suddenly. The UTV 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.

 WARNING

Potential Hazard

Turning improperly.

What Can Happen

UTV 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.

 WARNING

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 UTV on hills too steep for the UTV or for your abilities.

Practice on smaller hills before attempting large hills.

Never operate UTV on hills steeper than 20%.

 WARNING

Potential Hazard

Going down a hill improperly.

What Can Happen

Could cause loss of control or cause UTV 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.

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.



WARNING

Potential Hazard

Improperly crossing hills or turning on hills.

What Can Happen

Could cause loss of control or cause UTV to overturn.

How to Avoid the Hazard

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



WARNING

Potential Hazard

Stalling, rolling backwards or improperly dismounting while climbing a hill.

What Can Happen

Could result in UTV 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. Apply the 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.



WARNING

Potential Hazard

Improperly operating over obstacles.

What Can Happen

Could cause loss of control or a collision. Could cause the UTV 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.



WARNING

Potential Hazard

Skidding or sliding,

What Can Happen

You may lose control of the UTV.

You may also regain traction unexpectedly, which may cause the UTV 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.



WARNING

Potential Hazard

Operating this UTV 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 operating the UTV through water which exceeds the recommended maximum depth in this manual.

Avoid operating the UTV 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.



WARNING

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.



WARNING

Potential Hazard

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

What Can Happen

Use of improper tires on this UTV, or operation of this UTV 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 of tires specified in the Owner's Manual for this vehicle.

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

Use proper pressures stated on the side wall of the tire when seating the tire beads. Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.



WARNING

Potential Hazard

Operating this UTV 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 UTV 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 UTV; and should be installed and used according to instructions. If you have questions, consult our authorized dealer.



WARNING

Potential Hazard

Riding on frozen lakes and rivers.

What Can Happen

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

How to Avoid the Hazard

Never ride your UTV on a frozen body of water.



WARNING

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.



WARNING

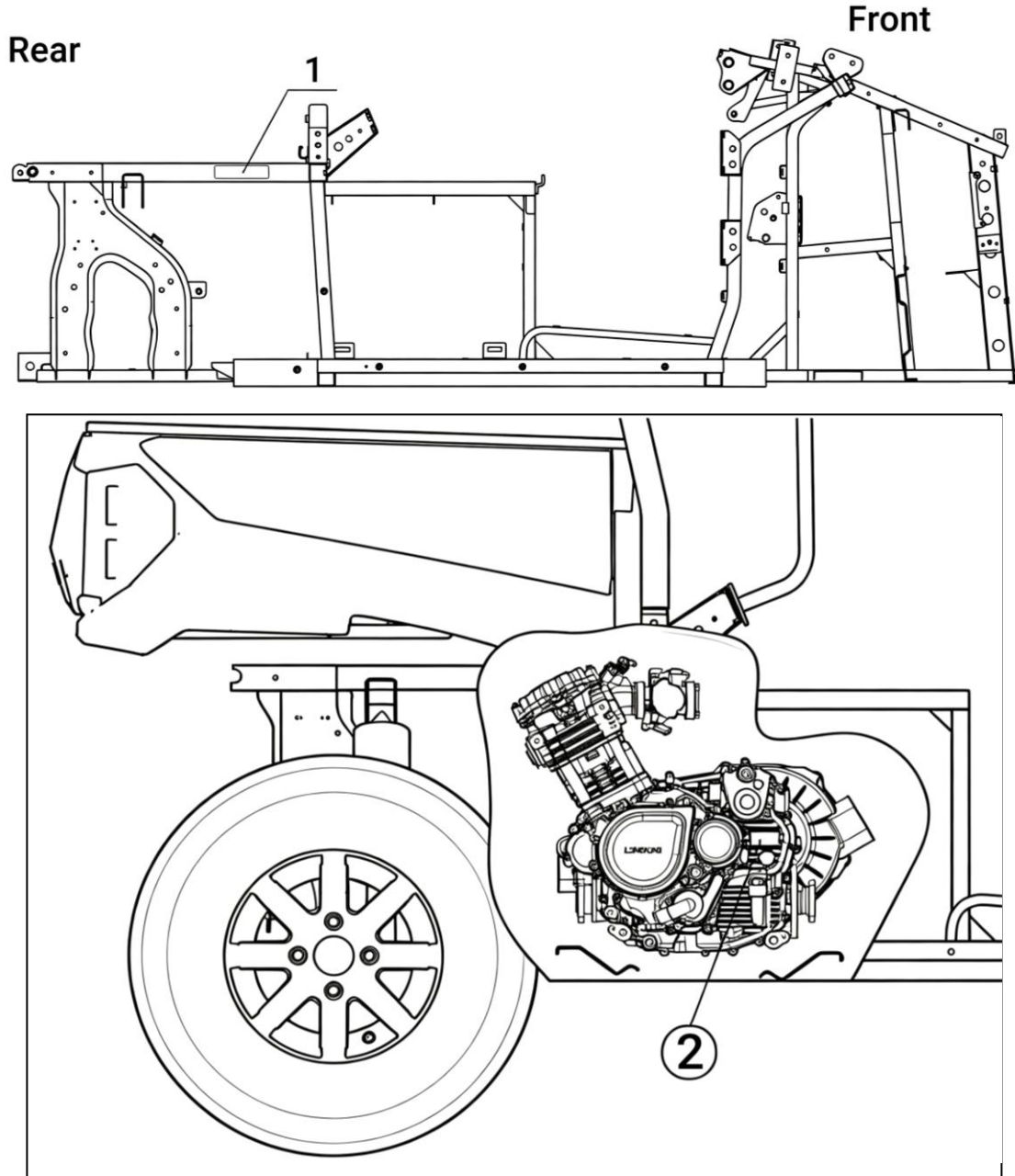
Safe operation of this rider active vehicle requires good judgment and physical skills. Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturns and loss of control which could result in severe injury or death.



CAUTION

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

6. V.I.N. and Engine Serial Number



Record these numbers from your UTV in the spaces provided.

1. Frame VIN (Rear right of the frame tube)

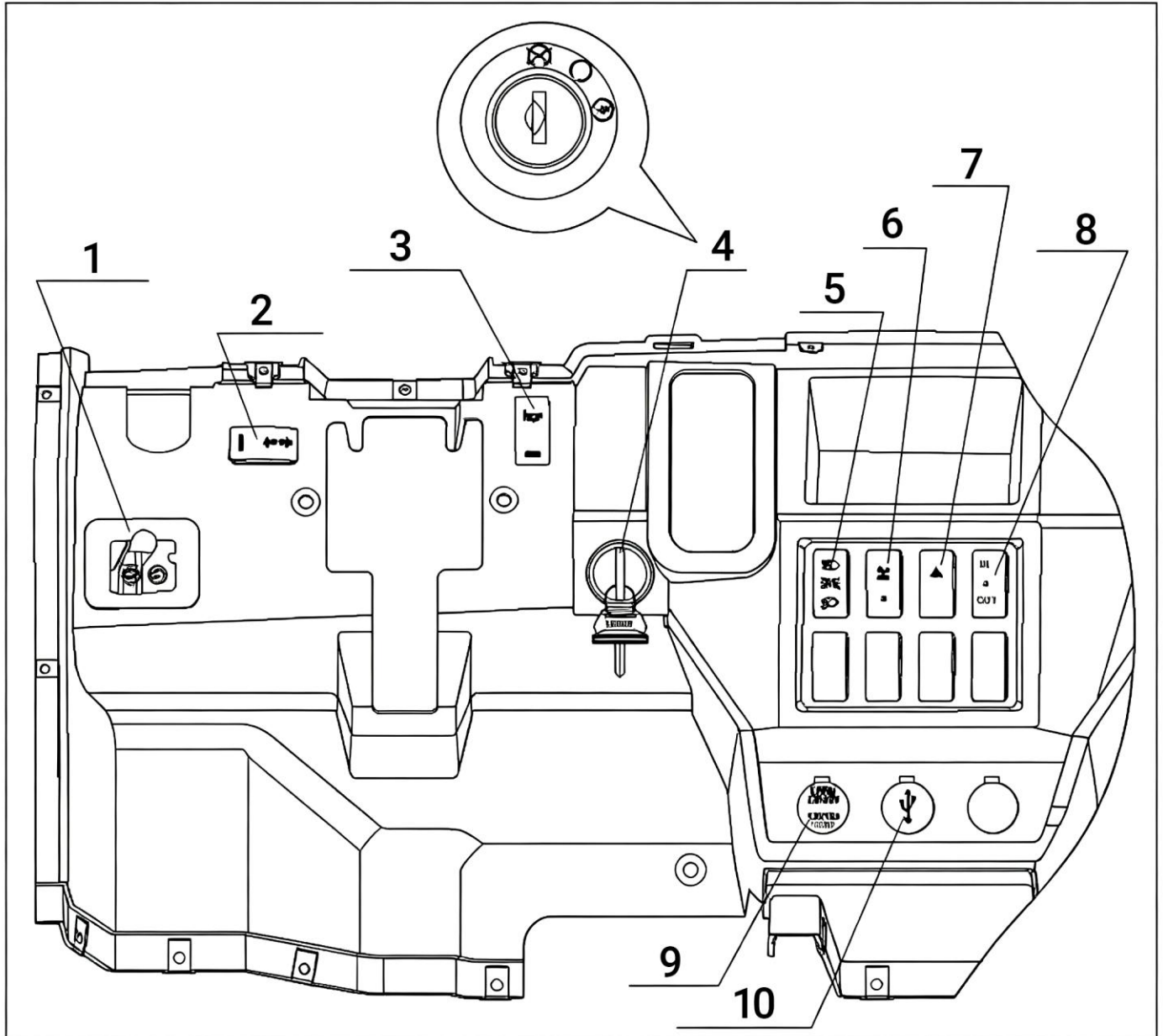
[illegible]

2. Engine Serial Number (Right side of engine crankcase)

--

The vehicle frame and engine serial numbers are important for model identification when registering your vehicle, obtaining insurance or whenever replacement parts are required. In the event your vehicle were stolen these numbers are essential to the recovery and identification of your UTV.

7. Control and Parts Functions



- | | |
|---|------------------------------|
| 1. Switch 2WD / 4WD and Front Diff Lock | 6. Rear Diff Lock Switch |
| 2. Turn Signal Lamp Switch | 7. Emergency Switch (Option) |
| 3. Horn Switch (Optional) | 8. Tractor Switch (Option) |
| 4. Main Switch | 9. Accessory Socket |
| 5. Light Switch | 10. USB Charger |

1) Switch 2WD / 4WD and 4WD Front Diff Lock

- Two-wheel drive (2WD): Power is supplied to the rear wheels only.
- Four-wheel drive (4WD): Power is supplied to the rear and front wheels.
- 4WD Front Differential Lock: Switch on 4WD and engage the front DIFF lock

CAUTION

Always shift only when the vehicle has stopped.

Note: When shifting between 2WD and 4WD, the mechanism in the front gear box may still be engaged or disengaged; it will finally disengage or engage when the vehicle is ridden on a hard surface or in reverse.

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

2) Turn Signal Lamp Switch

3) Main Switch

Functions of the respective switch positions are as follows:

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

 : All electrical circuits are supplied with power.

 : The electric starter is engaged by turning and holding the key in this position. Release the key when the engine starts.

CAUTION

Do not operate the electric starter continuously for more than 5 seconds, or starter damage could occur. Wait at least 5 seconds between each operation of the electric starter to let it cool.

Do not turn the key to the "" position with the engine running, or damage to the electric starter can result.

4) Light Switch

Turn on the lighting system, and you can switch between low and high beams.

WARNING

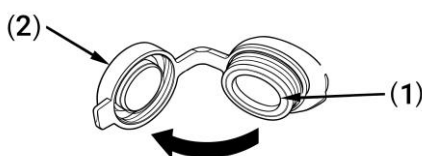
Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness.

5) Rear Diff Lock Switch

When in 2WD, the switch can engage or disengage the rear differential lock. When in 4WD, the switch does not work, and the vehicle will remain in rear differential lock.

6) Accessory Socket

The accessory socket (1) is attached to the left side of the front cover. You can use the accessory socket to power a trouble light, spotlight, CB radio, or cell phone etc.



(1) Accessory Socket (2) Cap

CAUTION

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

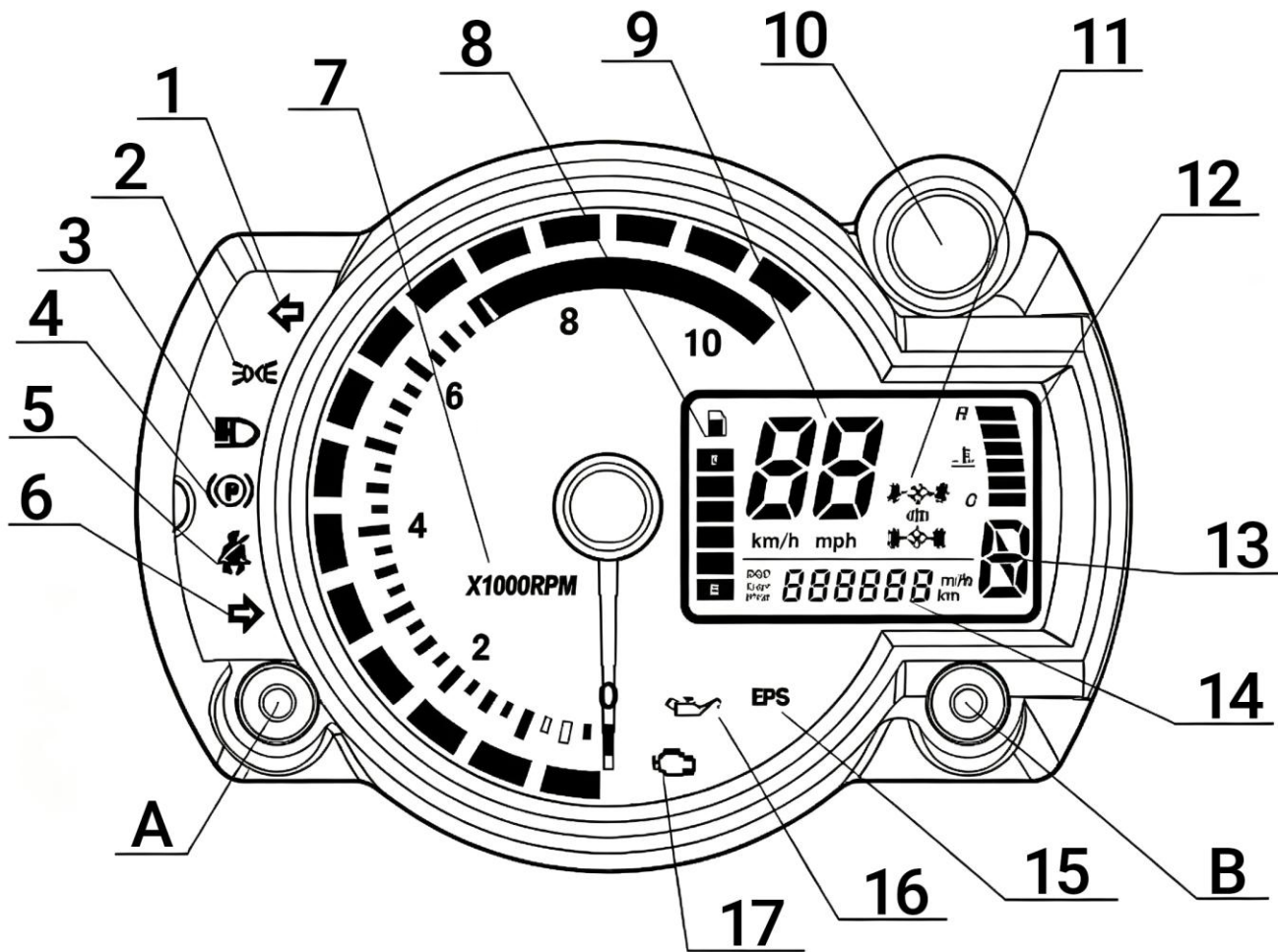
To use the accessory socket, start the engine. Then turn the headlights OFF, and open the accessory socket cap (2).

Be sure the engine is on and the headlights are turned off before using the accessory socket, otherwise you may drain the battery.

The accessory socket's rated capacity is DC 12 V, 120 watts (10 A) or less. If you exceed this limit, you may blow a fuse.

When you are done using an accessory, unplug it, and cover the socket with the cap.

Be careful not to flood this accessory socket when washing your UTV.

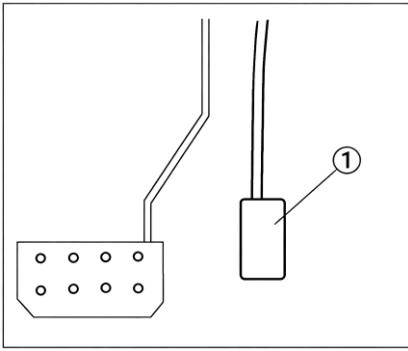


1	Turn Left Indicator Light	11	2WD/4WD/DIFF Lock Indicator
2	Position Lamp Indicator	12	Coolant Temperature Meter
3	High Beam Indicator Light	13	Gear Position Indicator
4	Parking Brake Indicator Lamp	14	The Odometer and Engine Working Hour Counter
5	Safety Belt Lamp	15	EPS Fault Indicator
6	Turn Right Indicator Light	16	Engine Oil Pressure Indicator
7	Engine RPM Meter	17	MIL Indicator
8	Fuel Gauge Indicator	A	ODO/TRIP/HOUR Selector
9	Speedometer	B	km/h, mph and km, miles Selector
10	Neutral Indicator		

⚠ WARNING

When the key is turned on but the engine is not started, the MIL indicator will be on. After the engine starts, the MIL indicator will turn off. If the MIL indicator lights up or flashes while the engine is running, consult an authorized UTV dealer and have it repaired immediately to avoid vehicle damage.

Accelerator Pedal



WARNING

Before starting the engine, check the accelerator pedal to be sure it is operating smoothly. Make sure the accelerator pedal fully returns to the idle position as soon as it is released.

Press the accelerator pedal down to increase engine speed. Spring pressure returns the pedal to the rest position when released. Always check that the accelerator pedal returns normally before starting the engine.

① Accelerator Pedal



WARNING

Potential Hazard

Malfunction of the accelerator pedal.

What Can Happen

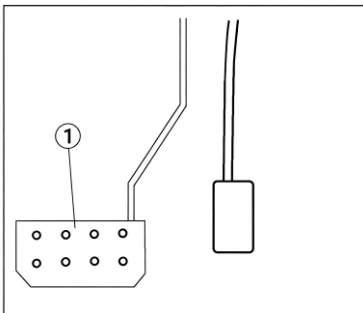
The accelerator pedal could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

How to Avoid the Hazard

Check the operation of the accelerator pedal before you start the engine.

If it does not work smoothly, check for the cause. Correct the problem before operating the vehicle. Consult the authorized dealer if you can't find or solve the problem yourself.

Brake Pedal



Press the brake pedal to slow or stop the vehicle.



WARNING

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

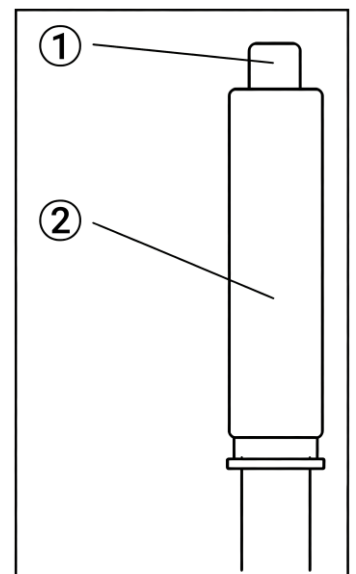
① Brake pedal

Parking Brake Lever

The parking brake lever is located at the left side of the steering wheel. It will help hold the vehicle from moving while parked. To set the parking brake, pull the lever up completely. The parking indicator light will come on if the main switch is on. To release the parking brake, pull up on the lever, press the release button, and then push the lever all the way down. Be sure to fully release the parking brake before starting out. Failure to do so may result in poor performance and premature wearing of the parking brake and V-belt.

① Release button

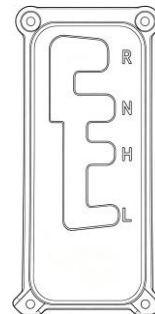
② Parking brake lever



Automatic Transmission Gear Selector Operation

The transmission gear selector is located at the right side of the steering wheel. The transmission selector lever has four positions: reverse; neutral; high forward; 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

Potential Hazard

Engaging a lower gear when the engine speed is too high.

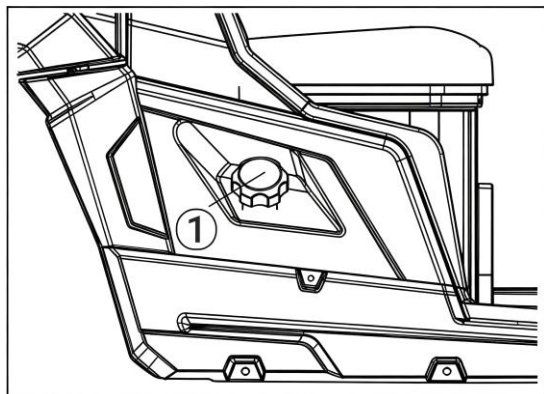
What Can Happen

The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

How to Avoid the Hazard

Make certain the engine has sufficiently slowed before shifting to a lower gear.

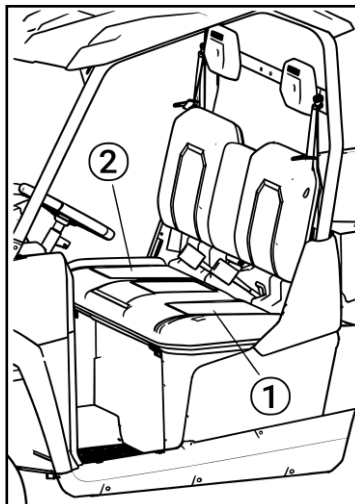
Fuel Tank Cap



① Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.

Seats



① Drive seat

② Passenger seat

To remove a seat, lift the rear of the seat, and then slide the seat up and backward.

To install a seat, push down on the seat at the front and insert the projections on the rear of the seat into the seat holders.



WARNING

Potential Hazard

A loose seat.

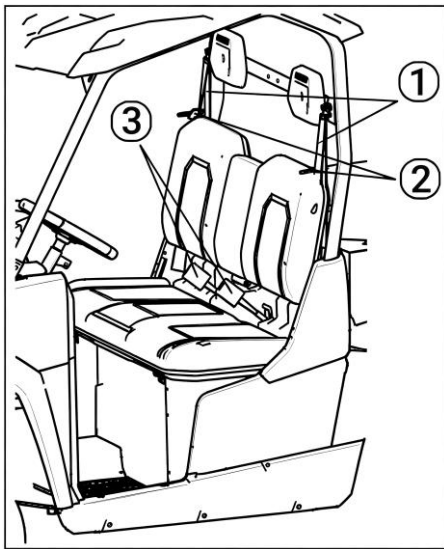
What Can Happen

The operator could lose control or the operator or passenger could fall if the seat is loose during operation.

How to Avoid the Hazard

Make sure the seat is securely latched.

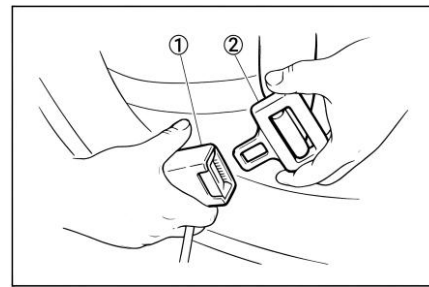
Seat Belts



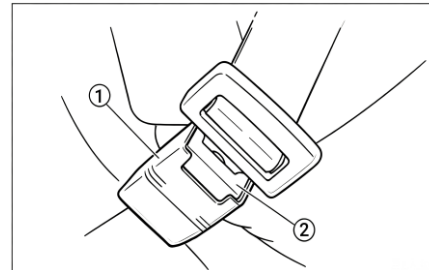
- ① Seat belt (×2)
- ② Latch plate (×2)
- ③ Buckle (×2)

This vehicle is equipped with three-point seat belts for both the operator and passenger.

Always wear the seat belt while riding in the vehicle.



- ① Buckle
- ② Latch plate



- ① Buckle
- ② Release button

To Wear the Seat Belt Properly, do the following:

1. Hold the latch plate as you pull the belt across your lap and chest. Make sure the belt is not twisted and is not caught on any portion of the vehicle, your clothing, or any equipment you are carrying.
2. Push the latch plate into the buckle until it clicks. Pull up on the latch plate to make sure it is secure.
3. Put the lap portion of the belt low on your hips. Push down on the buckle end of the belt as you pull up on the shoulder part so the belt is snug across your hips.
4. Position the shoulder belt over your shoulder and across your chest. The shoulder belt should fit against your chest. If it is loose, pull the belt out all the way and then let it retract.

To Release the Buckle, firmly press the release button.



WARNING

Potential Hazard

Not wearing the seat belt.

Wearing the seat belt improperly.

What can Happen

There is increased risk of being killed or seriously injured in an accident.

How to Avoid the Hazard

Always wear your seat belt when riding in the vehicle.

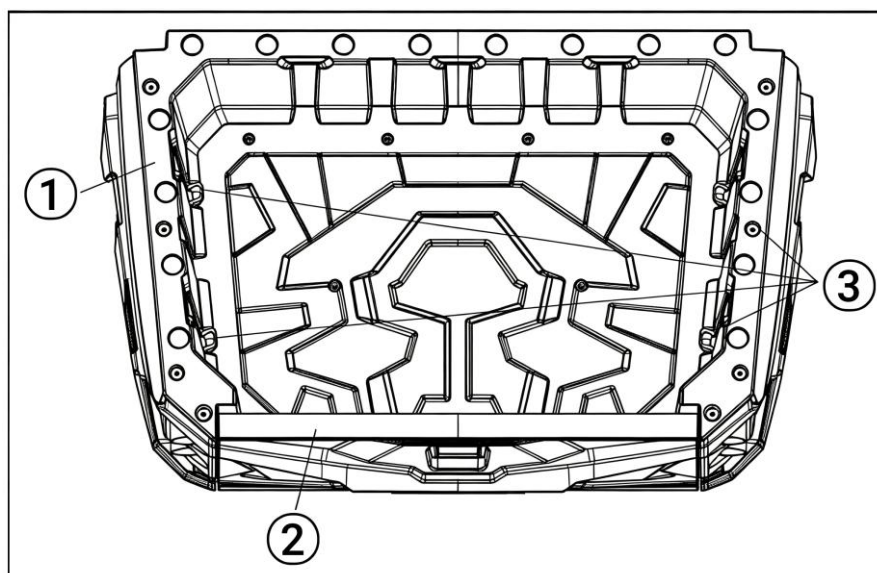
Be sure the seat belt is close-fitting across your hips and chest and is latched securely.



CAUTION

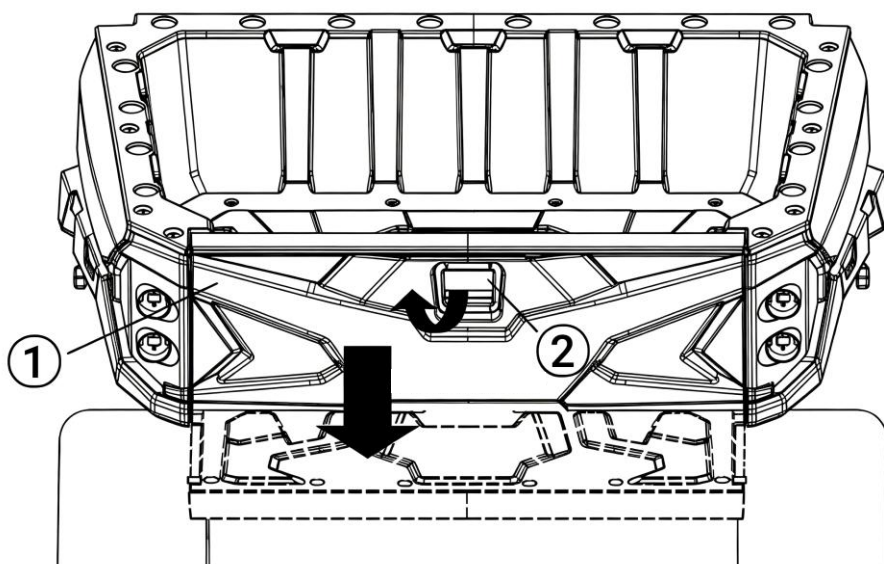
To protect from damage, do not put metal products, like tools or sharply edged products directly in the glove compartment. If they must be stored, wrap them in appropriate cushion material.

Cargo Bed



- ① Cargo bed
- ② Tailgate
- ③ Cargo hook (×4)

Opening and Closing the Tailgate



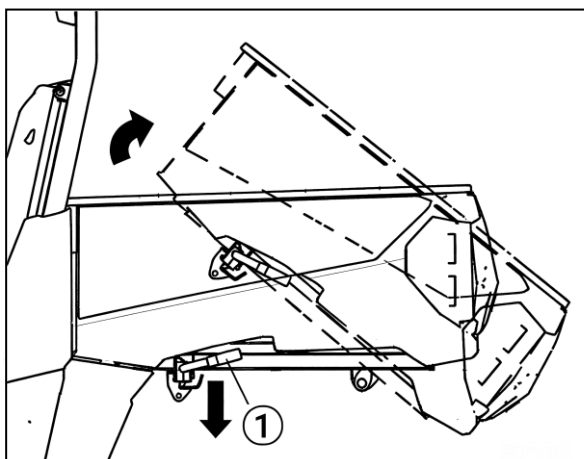
- ① Tailgate
- ② Handle

To open
Pull the handle, and then lower the tailgate.

To close

Place the tailgate in the original position, and be sure that it is locked into place.

Lifting and Lowering the Cargo Bed



- ① Cargo bed release lever

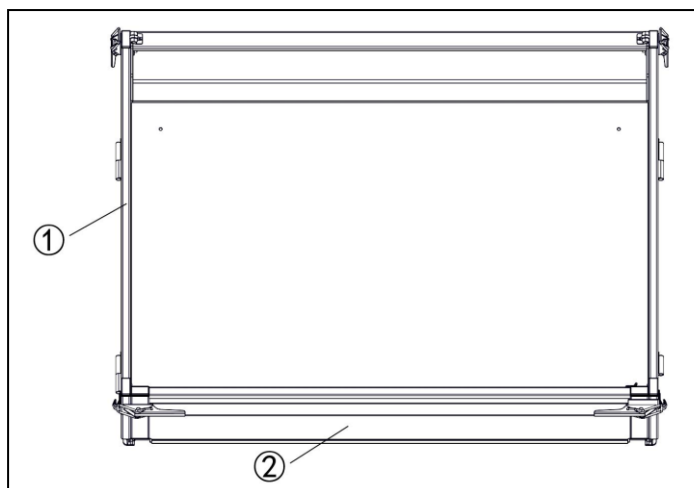
To lift

Push down the cargo bed release lever on the left or right side of the vehicle, and then slowly lift up the cargo bed until it stops.

To lower

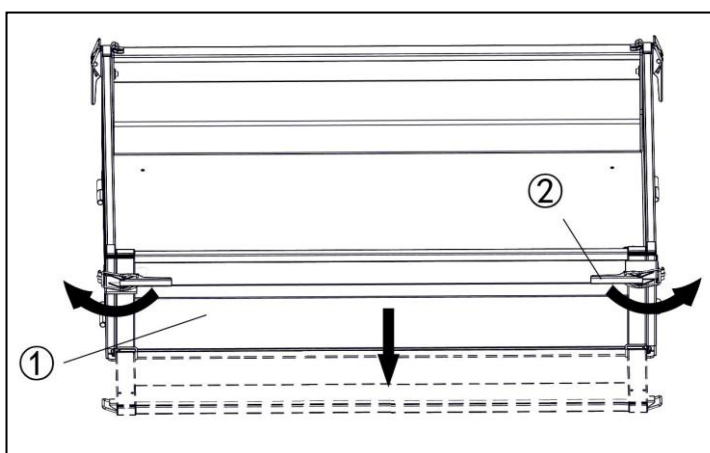
Lower the cargo bed slowly to its original position and be sure that it is locked into place.

Optional: Cargo Bed (Iron)



- ① Cargo bed
- ② Tailgate

Opening and Closing the Tailgate

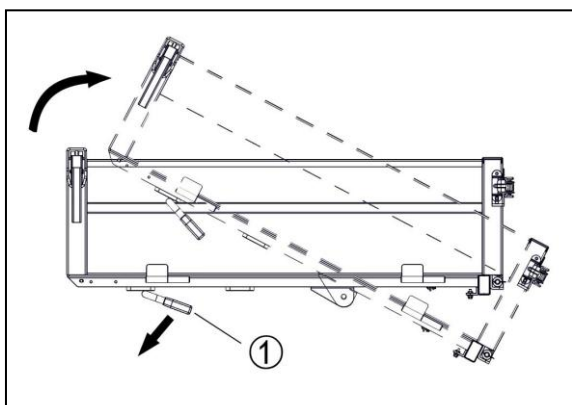


- ① Tailgate
- ② Latch(x2)

To open
Unhook the latches, and then lower the tailgate

To close
Place the tailgate in the original position, and then hook the latches

Lifting and Lowering the Cargo Bed



- ① Cargo bed release lever

To lift
Push down the cargo bed release lever on the left or right side of the vehicle, and then slowly lift up the cargo bed until it stops

To lower
Lower the cargo bed slowly to its original position and be sure that it is locked into place.

! WARNING

Potential Hazard

Pinch points.

What can Happen

You or someone else could be pinched between the cargo bed and the frame when the bed is being lowered.

How to Avoid the Hazard

Before closing the bed, be sure others are standing away from the vehicle. Keep hands and fingers away from the pinch points between the bed and the frame.

Load Limit Cargo Bed

Maximum load limit: 150 kg (331 lb)

! WARNING

Potential Hazard

Overloading the cargo bed

What Can Happen

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

How to Avoid the Hazard

Never exceed the stated maximum load limit for this cargo bed. Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo. Allow greater distance for braking.

! WARNING

Potential Hazard

Carrying a passenger/ passengers in the cargo bed

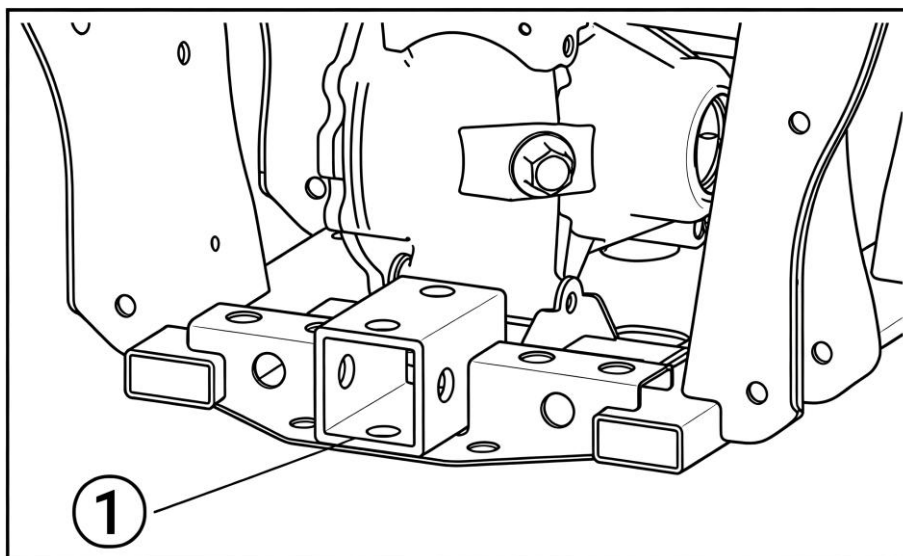
What Can Happen

The passenger(s) could fall, be thrown out, or be struck by objects in the cargo bed.

How to Avoid the Hazard

Never carry a passenger/ passengers in the cargo bed. This cargo bed is designed to carry cargo only.

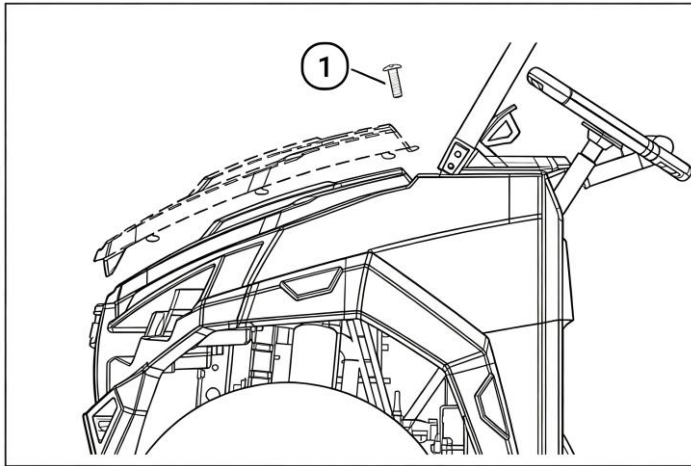
Trailer Hitch Bracket



① Trailer hitch bracket

This vehicle is equipped with a receiver bracket for a standard trailer hitch.

Hood



① bolt (x2)

To Open

Remove the fastening bolts, pull down the hood and then take it out.

To Close

Put the hood in place, push up it and then assemble fastening bolts.



WARNING

If the fastening bolts are not assembled, or the fastening bolts are improperly assembled, the front hood can come off during operation, striking the driver or passenger and causing serious personal injury.

Engine Cooling System

Coolant Level

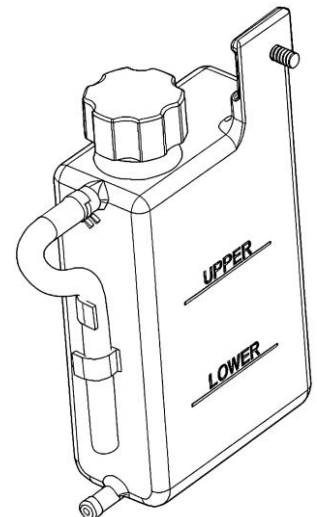
The recovery bottle, located on the left of the frame, must be maintained between the minimum and maximum levels indicated on the recovery bottle.

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: Some coolant level drop on new machines is normal as the system is purging itself of trapped air. Observe coolant levels and maintain as recommended by adding coolant to the recovery bottle. We recommend the use of high quality aluminum compatible anti-freeze coolant.

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

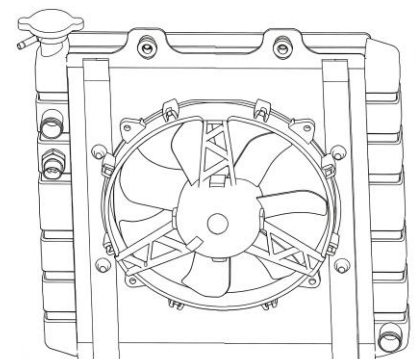


WARNING

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: Use of a non-standard pressure cap will not allow the recovery system to function properly. If the cap should need replacement contact your dealer for the correct replacement part. To insure that the coolant maintains its ability to protect the engine, it is recommended that the system be completely drained every two years and a fresh antifreeze be added.

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 refuel with the engine stopped and 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 overfill the tank. Do not fill above the filler 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.



WARNING

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

Recommended Fuel: Unleaded Gasoline Only

Fuel tank capacity: 26.0 L (5.72 Imp gal, 6.87 US gal)



CAUTION

Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

Use 87 octane or higher gasoline.

Fuel filter

The filter should be replaced by your dealer every 100 hours of operation or annually. Do not attempt to clean the fuel filter.

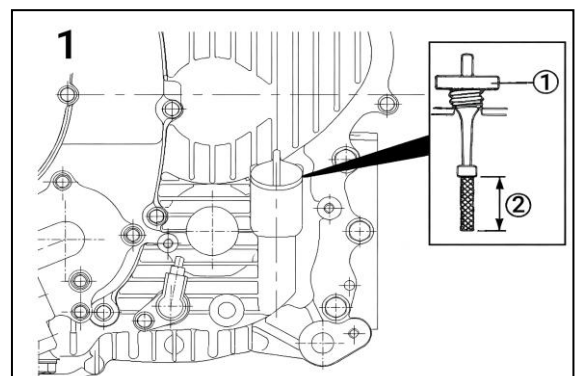
Oil System

① Dipstick

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

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 marks②. Add oil as indicated by the level on the dipstick. Do not overfill.



 CAUTION

Use only API SN, JASO MA2, Full Synthetic, 10W-50. Never substitute or mix oil brands. Serious engine damage and voiding of warranty can result.

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.

 WARNING

Potential Hazard

Freezing control cables in cold weather.

What can Happen

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

How to Avoid the Hazard

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

 CAUTION

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

1. Apply the brake.
2. Shift the drive select lever into the neutral position.

Note: When the drive select lever is in the neutral position, the Gear Position Indicator displays “N” and the Neutral Indicator is illuminated. If the Gear Position Indicator does not display “N” or the Neutral Indicator isn’t illuminated, ask a dealer to inspect the electric circuit. The engine can be started only when the drive select lever is in the neutral position and the brake is applied.

3. With your foot off the accelerator pedal, start the engine by turning the key to “”.

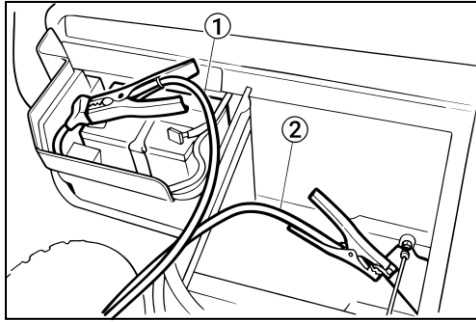
Note: If the engine fails to start, release the key, and then try starting again. Wait a few seconds before the next attempt. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 5 seconds on each attempt.

4. Immediately after the engine starts.
5. Continue warming up the engine until it runs smoothly.

Jump-starting

Jump-starting the vehicle should be avoided. The battery should be removed and charged instead. However, if the vehicle must be jumpstarted, proceed as follows.

1. Turn the key to “”.
2. Open the hood.
3. Using a charged 12 V battery, connect the positive lead of the jumper cable to the positive terminal of the battery in the vehicle and the other end of the positive lead to the positive terminal of the charged battery.



① Jumper cable positive lead

② Jumper cable negative lead

4. Connect the negative lead of the jumper cable to the negative terminal of the charged battery and the other end of the negative lead to an unpainted metal surface of the vehicle.

5. Start the engine.

6. After the engine starts, disconnect the negative lead of the jumper cable from the vehicle and charged battery, and then disconnect the positive lead of the jumper cable from the charged battery and the battery in the vehicle.

7. Close the hood.



WARNING

If the hood latches are hooked improperly, or the latches and their attachments can not work properly, the front hood can come off during operation, striking the driver or passenger and causing serious personal injury.

9. Vehicle Break-In Period

The break-in period for your new UTV 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 to close fitted engine parts.

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. Do not operate at sustained idle.
5. Perform regular checks on fluid levels, controls and all important areas on the vehicle as outlined earlier on the daily pre-ride inspection checklist found in "4. Daily Pre-Ride Inspection".
6. Don't pull 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. UTV 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 off-road motorcycle -type helmet that fits properly.

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

A pair of strong over the calf type 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.



WARNING

Potential Hazard

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

What Can Happen

Operating without an approved motorcycle 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 motorcycle helmet that fits properly. You should also wear: eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket and long pants.

11. Carrying Loads

Carrying Loads

Cargo or a trailer can change the stability and handling of a vehicle.

You must use common sense and good judgment when carrying cargo or towing a trailer. Keep the following points in mind:

1. Never exceed the weight limits shown. An overloaded vehicle can be unstable.

Maximum Loading Limit

Cargo bed: 150 kg (331 lb)

Trailer hitch:

Pulling load (total weight of trailer and cargo): 200 kgf (441 lbf)

Tongue weight (vertical weight on trailer hitch point): 11 kgf (24 lbf)

2. Choose a trailer hitch drawbar designed for use with a 5 cm (2 in) receiver.
3. Do not exceed the maximum tongue weight. You can measure tongue weight with a bathroom scale. Put the tongue of the loaded trailer on the scale with the tongue at hitch height. Adjust the load in the trailer, if necessary, to reduce the weight on hitch. If you are carrying cargo and towing a trailer, include the tongue weight in the maximum vehicle load limit.
4. Load cargo in the cargo bed as close to the center of the vehicle as possible and tie it down using the cargo hooks equipped on the cargo bed.
5. Tie down cargo securely in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
6. Make sure the load does not interfere with controls or your ability to see where you are going.
7. Drive more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed low range whenever you are carrying heavier loads or when towing a trailer.
8. Allow more braking distance. A heavier vehicle takes longer to stop.
9. Avoid making sharp turns unless at very slow speeds.
10. Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.

Use a Safety Chain

1. A safety chain will help control drawn machinery should it separate from the tractor drawbar.
2. Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
3. Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
4. Do not use safety chain for towing.



WARNING

Potential Hazard

Overloading this vehicle 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 vehicle. Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

! WARNING

Potential Hazard

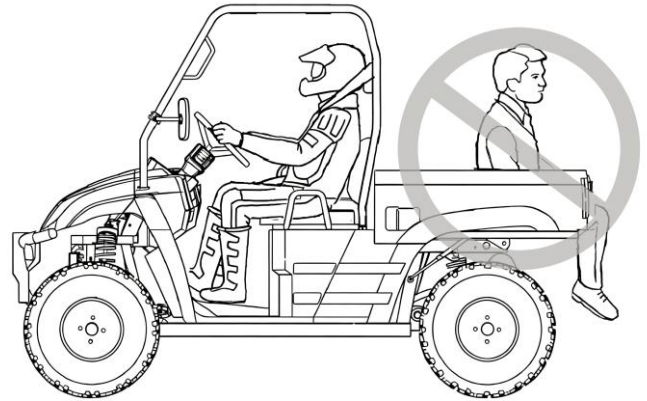
Carrying a passenger in the cargo bed.

What can Happen

The passenger could fall or be struck by objects in the cargo bed.

How to Avoid the Hazard

Never carry a passenger in the cargo bed. The cargo bed is designed to carry cargo only.



12. Driving Your Vehicle

Getting to know your vehicle

This off-highway utility vehicle will handle and maneuver differently from an ordinary passenger car or other vehicle. Before you begin to use your vehicle, be sure you have read this Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information. Please also read all caution and warning labels on your vehicle. This vehicle is designed for the operator and one passenger. The driver and passenger must always wear a seat belt. Never carry passengers in the cargo bed.

! WARNING

Potential Hazard

Not wearing the seat belt.

Wearing the seat belt improperly.

What can Happen

There is increased risk of being killed or seriously injured in an accident.

How to Avoid the Hazard

Always wear your seat belt when riding in the vehicle. Be sure the seat belt is close-fitting across your hips and chest and is latched securely.

! WARNING

The engine rpm limiter works at 7500 rpm, which may cause excessive fuel to build up in the exhaust; when ignited by the catalyst in the muffler, it may result in muffler overheating and a fire risk.

Always reduce the throttle when the engine reaches top rpm to avoid engine popping.

! WARNING

You must inspect your UTV 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"

Learning to operate your vehicle

You should become familiar with the performance characteristics of the vehicle in a large, flat area that is free of obstacles and other vehicles.

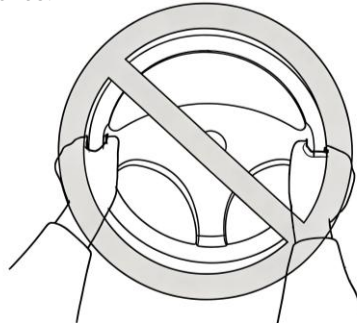
Practice control of the accelerator pedal, brakes, steering, and drive select lever. Drive first at slow speed and become comfortable at that speed before gradually increasing your speed. Become familiar with the way the vehicle feels in low and high ranges, first in two-wheel drive (2WD) and then in four-wheel drive (4WD). Also practice driving in reverse. Take the time to learn basic operation before attempting more difficult maneuvers.

1. Set the parking brake, shift to neutral, and follow the instructions to start the engine.
2. With the engine idling, shift the drive select lever into low or high. Then release the parking brake.
3. Press the accelerator pedal slowly and smoothly. The centrifugal clutch will engage and you will start to accelerate. Avoid higher speeds until you are thoroughly familiar with the operation of your vehicle.
4. When slowing down or stopping, take your foot off the accelerator pedal and smoothly press the brake pedal. Improper use of the brakes can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

Making Turns

It is possible for the vehicle to roll over or go out of control if you attempt sharp, high-speed turns. You should also be careful making sharp turns on rough terrain. Do not attempt to turn around or make abrupt maneuvers on slopes.

Position your hands on the steering wheel so that your thumbs and fingers do not wrap around the wheel. This is particularly important when driving in rough terrain. The front wheels will move right and left as they respond to the terrain, and this movement will be felt in the steering wheel. A sudden jolt could wrench the steering wheel around, and your thumbs or fingers could be injured if they are in the way of the steering wheel spokes.



Braking

Braking ability is affected by the type of terrain. In most cases, gradual application of the brakes is more effective than abrupt braking, particularly on loose surfaces like gravel. Always allow for greater braking distance on rough, loose, or slippery surfaces.

Going Uphill

Do not attempt to climb hills until you have mastered basic maneuvers on flat ground. Use proper driving techniques to avoid overturns on hills and slopes. Drive straight up hills, and avoid crossing the side of a hill, which increases your chance of rollover. Practice first on gentle slopes before attempting steeper hills. Always check the terrain carefully before attempting any hill. Use common sense and remember that some hills are too steep for you to climb.

Choose carefully which hills you attempt to climb. Avoid hills with slippery surfaces or ones where you will not be able to see far enough ahead of you.



WARNING

Potential Hazard

Operating on excessively steep hills.

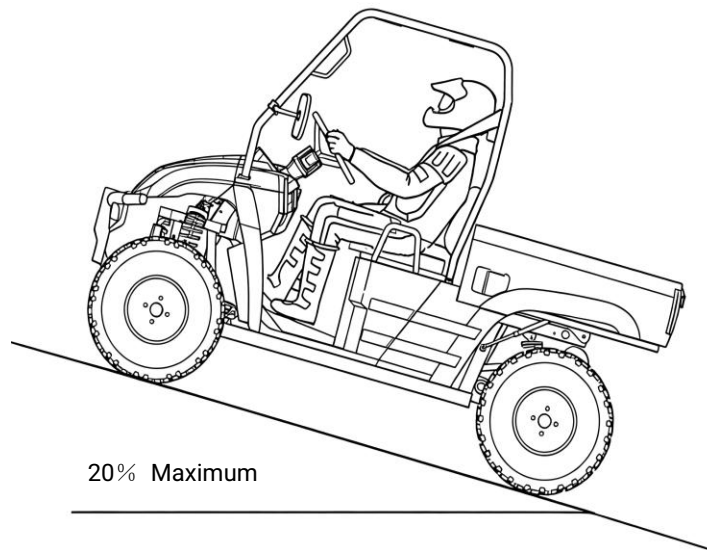
What can Happen

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

How to Avoid the Hazard

Never operate your vehicle on hills too steep for it or your abilities.

Never operate vehicles on hills steeper than 20%. Do not drive across the face of a hill. Go straight up the hill. Practice on smaller hills before attempting large hills.



Before climbing the hill, first be sure you are operating in low range 4WD (4WD model). To climb a hill, you need traction, momentum, and steady throttle. Travel fast enough to keep your momentum going, but not so fast that you cannot react to changes in the terrain as you climb.

Slow down when you reach the crest of the hill if you cannot clearly see what is on the other side – there could be another person, an obstacle, or a sharp drop off.

If you start to lose traction or momentum when climbing, and you decide you will be unable to continue, use the brakes to come to a stop. Do not attempt to turn the vehicle around. With your foot on the brake, look behind you and plan your descent. Release the brake and begin to coast down the hill, gently applying the brakes when necessary.

Going Downhill

Check the terrain carefully before going down a hill. When possible, choose a path that lets you drive your vehicle straight downhill. Avoid sharp angles that could allow the vehicle to pitch or roll over. Carefully choose your path and drive no faster than you will be able to react to obstacles that may appear.



WARNING

Potential Hazard

Going down a hill improperly.

What Can Happen

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

How to Avoid the Hazard

Always check the terrain carefully before you start down any hill. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.

Before starting down hill, make sure the vehicle is in low-range 4WD (4WD model). Go as slowly as possible. If you are starting to go too fast, apply the brakes gently. Avoid sudden application of the brakes, which could cause the vehicle to start sliding. If you

are sliding or skidding, try to steer in the direction the vehicle is sliding to help you regain control. If you must turn on the hill to avoid an obstacle, do so slowly and carefully. If the vehicle starts to tip, gradually steer in the downhill direction if there are no obstacles in your path. As you regain proper balance, gradually steer again in the direction you want to go.



WARNING

Potential Hazard

Try to stop the tipping vehicle with your arm or leg.

What can Happen

You could be severely injured. You could suffer a crushed hand, arm, leg, or foot.

How to Avoid the Hazard

You must keep your arms and legs inside the vehicle until it has stopped moving.

As with any off-road-capable vehicle, there is a risk of tip over or rollover under certain conditions. Uneven terrain or slopes which pitch the vehicle sideways, turning too fast or sharp, or a combination of conditions increase the risk of tip over.

If you are in a situation where the vehicle is tipping over, do not put your arm or and leg outside the vehicle, do not try to stop tipping with your arm or leg. You could be severely injured. You could suffer a crushed hand, arm, leg, or foot, if part of your body is caught underneath the vehicle.

Crossing Through Shallow Water

If you must cross shallow, slow moving water up to 200mm (8 in) depth, choose your path carefully to avoid sharp drop-offs, large rocks, or slippery surfaces that could cause the vehicle to overturn. Never operate through water deeper than 200mm (8 in) or fast flowing water.

Wet brakes may have reduced effectiveness. After leaving the water, test your brakes. If necessary, apply the brakes several times to let friction dry out the linings.

Note: After running the vehicle in water, it is critical that your machine be serviced as outlined in the maintenance chart; see Section 16, "Maintenance." The following areas need special attention: engine oil, transmission oil, rear gearcase, and all grease fittings.



WARNING

Potential Hazard

Operating this vehicle through deep or fast-flowing water.

What can Happen

Loss of control, which could result in an accident including overturn, which could increase the risk of drowning.

How to Avoid the Hazard

Never operate this vehicle in fast flowing water or in water deeper than 200 mm (8 in). 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 linings.

Riding Over Rough Terrain

Operating over rough terrain should be done with caution. Look for obstacles that could cause damage to the vehicle or could lead to a rollover or accident. Avoid jumping the vehicle as injury, loss of control, and damage to the vehicle could occur.



WARNING

Potential Hazard

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

What can Happen

You can come upon hidden rocks, bumps, or holes, without enough time to react. Could result in the vehicle 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 vehicle.

Riding in Brush or Wooded Areas

When operating in areas with brush or trees, watch carefully on both sides and above the vehicle for obstacles such as branches that the vehicle might hit, causing an accident, or for brush that might enter the vehicle as you pass and strike the driver or passenger. Never hold onto the enclosure so your hand is outside the vehicle. Hold only onto the handgrip inside the enclosure.

Encountering Obstacles on the Trail

If you cannot go around an obstacle such as a fallen tree trunk or a ditch, stop the vehicle where it is safe to do so. Set the parking brake and get out to inspect the area thoroughly. Look from your approach side and the exit side. If you believe you can continue safely, decide the path that will allow you to get over the obstacle at as close to a right angle as possible to minimize vehicle tipping. Go only fast enough to maintain your momentum but still give yourself plenty of time to react to changes in conditions. If there is any question about your ability to maneuver safely over the obstacle, you should turn around, if the ground is flat and you have the room, or back up until you find a less difficult path.



WARNING

Potential Hazard

Improperly operating over obstacles

What Can Happen

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

How to Avoid the Hazard

Before operating in a new area, check for obstacles. Use extreme caution when operating over large obstacles, such as large rocks or fallen trees.

Parking

When parking, stop the engine and shift the drive select lever into the neutral position. Apply the parking brake to help prevent the vehicle from rolling.

Parking on a slope

1. Bring the vehicle to a stop by applying the brakes.
2. Stop the engine.
3. With the brakes applied, set the parking brake.



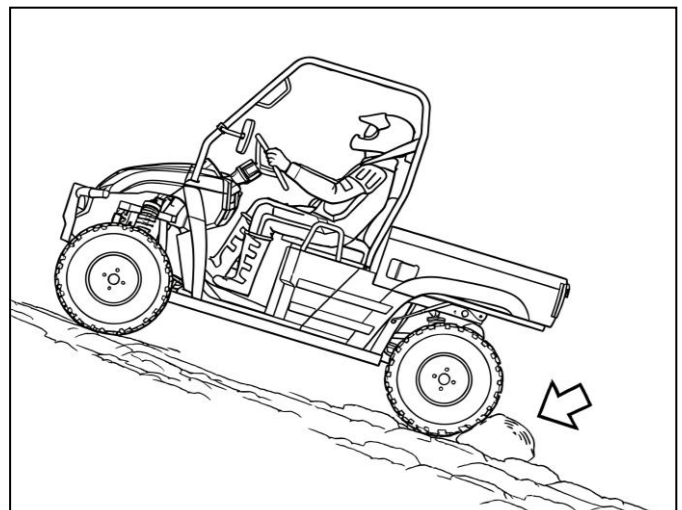
WARNING

Potential Hazard

Parking on a hill or other incline.

What Can Happen

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



How to Avoid the Hazard

Avoid parking on hills or other inclines. If you must park on an incline, apply the parking brake, and block the front and rear wheels with rocks or other objects. Do not park the vehicle at all on hills that are so steep you could not walk up them easily.

13. CVT System



WARNING

The CVT system rotates at high speeds, creating large amounts of force on clutch components.

Do not modify any components of the CVT system. Any modification will damage the system and cause it to be out of balance. The CVT housing must be securely in place during operation. Failure to comply with this warning can result in severe injury or death.

Low Range Use May Reduce CVT Operating Temperatures

The basic operation of the CVT system is dependent on engine speed and vehicle torque requirements. As engine speed increases, the force exerted on the movable drive sheave by the fly-weights also increases.

This, in turn, increases the amount of “pinch” applied to the drive belt.

Similarly, if the engine speed decreases, the amount of centrifugal force decreases, reducing the amount of belt “pinch”.

CVT System

On this UTV, 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

WARNING

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.

WARNING

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: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.
- 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.)

Battery Removal

1. Remove battery cover and battery platen.
2. Disconnect the black (negative) battery cable first.
3. Disconnect the red(positive) battery cable next.
4. Lift the battery out of the UTV, 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 UTV.

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.

WARNING

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.

Battery install

1. Set the battery in its holder.
2. First connect and tighten the red (positive)cable.
3. Second connect and tighten the black (negative)cable.

4. Reinstall battery platen.
5. Verify that cables are properly routed.
6. Reinstall battery cover.

Note:

- When your UTV 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 UTV is equipped with a 20Ah Battery (or 30Ah Battery for EPS model). This may not be sufficient to provide power for optional equipment. When installing optional equipment please upgrade your battery as necessary. See your dealer for the proper battery.

15. Exhaust System Safety

System regulation

Tampering with the noise control system is prohibited.

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

- 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 catalyst inside the muffler on all 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 reduce throttle when the engine reach top rpm, avoid the engine popping.



WARNING

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

Spark Arrestor

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

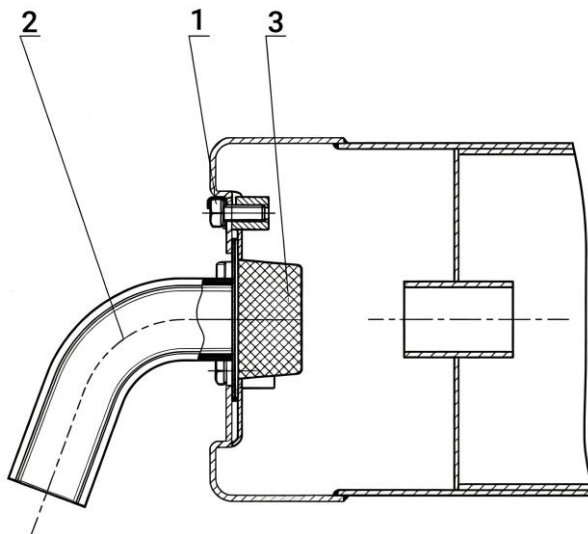
1. Remove the arrestor screw ① located on the bottom of the muffler and remove the pipe② of the muffler, pull out the arrestor (the mesh)③.
2. Clean the arrestor or replace it.



WARNING

When cleaning the spark arrestor, you must follow the safeguards 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.



16. Maintenance

Maintenance Chart Key

Symbol	Description
I	Inspect
A	Adjust
R	Replace
C	Clean

The maintenance interval charts below is operated for normal use and a clean environment.

Maintenance period	Odometer (km)											
Items	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	Everyday Check before riding
Lubricating oil		R		R			R			R		I
oil filter		R		R			R			R		
Air filter				C			R			C		
Fuel filter							R					
Valve gap		I/A		I/A			I/A			I/A		
Fuel pipe		I		I			I			I		
brake pads		I		I			I			I		
Brake function		I		I			I			I		
Brake fluid		I		I			I			I		
Suspension		I		I			I			I		
Tire		I		I			I			I		



WARNING

Vehicles subjected to heavy or severe use patterns must be maintained according to the maintenance interval charts below.

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.

Note:

Maintenance intervals are based upon average riding conditions and an average vehicle speed of approximately 16 km/ 10 miles per hour.

However, keep in mind that if the vehicle isn't used for a long period of time, the monthly maintenance intervals should be followed. 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.

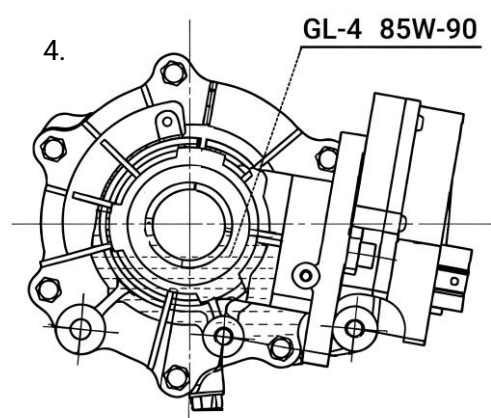
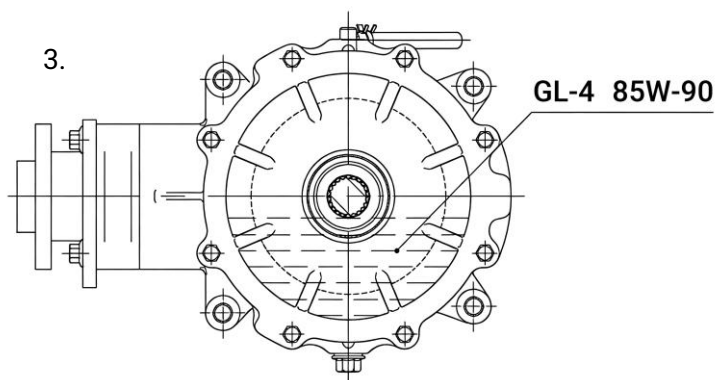
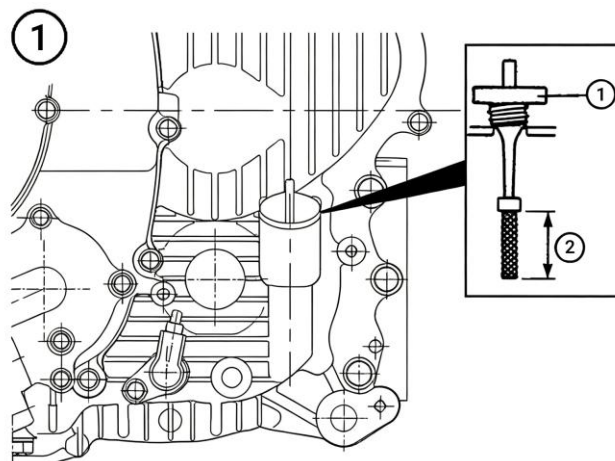
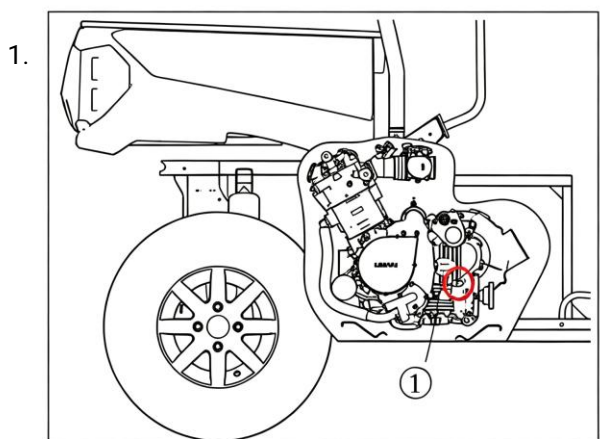
Service and adjustments are critical. If you are not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

	Item	Hours	When	Remarks
•	Brake System	Pre-ride	Pre-ride	Pre-ride inspection item
	Accelerator pedal	Pre-ride	Pre-ride	Inspect –adjust, lubricate, replace if necessary; pre-ride inspection item
	Fuel System	Pre-ride	Pre-ride	Check for leaks at tank cap, lines, fuel valve, filter, and carburetor
•	Tires	Pre-ride	Pre-ride	Inspect daily, pre-ride inspection item
•	Front and Rear Wheels/Hubs	Pre-ride	Pre-ride	Pre-ride inspection item
•	Steering	Pre-ride	Pre-ride	Inspect daily, lubricate
D	Wheels bearings	10 hrs	Monthly	Check for looseness/ damage. Replace if damaged
	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 one 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/ indicator 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
D	Brake pad wear	10 hrs	Monthly	Inspect periodically
•	Rear Gear case Oil	100 hrs	Monthly	Check monthly and change annually
•	Front Gear case Oil	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.

	Item	Hours	When	Remarks
•	Oil Filter	50 hrs	6 months	Inspect-clean
	Engine breather hose	100 hrs	6 months	Inspect
D	Throttle Cable/ Accelerator pedal	20 hrs	monthly	Inspect –adjust, lubricate, replace if necessary; pre-ride inspection item
	Coolant strength	100 hrs	6 months	Inspect strength seasonally
	Shift linkage	50 hrs	6 months	Inspect, adjust
D	Drive belt	50 hrs	6 months	Inspect, replace if necessary
D	Steering system	50 hrs	6 months	Check operation and for looseness, worn, damage, binding feeling / Adjust, repair, Replace if necessary. Check toe alignment /Adjust if necessary.
D	Toe adjustment	As required	As required	Periodic inspection, adjust when parts are replaced
D	Front Axle (CV Joints)	10 hrs	Monthly	Check for/ Axle boots/ looseness/ damage.
D	Rear Axle (CV Joints)	10 hrs	Monthly	Check for/ Axle boots/ looseness/ damage.
•	Front Prop Shaft & Shaft Yoke	50 hrs	6 months	Check for looseness/ damage.
•	Rear Prop Shaft, Shaft Yoke & Boots	50 hrs	6 months	Check for/ boots/ looseness/ damage.
•	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
D	Ignition Timing	100 hrs	12 months	Inspect and adjust as needed
D	Fuel System	50 hrs	6 months	Check for leaks at tank cap, lines, fuel valve, filter, and carburetor. Replace lines every one year
D	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	Clean out-replace if necessary
D	Clutches (drive and driven)	25 hrs	3 months	Inspect, clean
	Engine mounts	25 hrs	3 months	Inspect
D	Valve clearance	100 hrs	12 months	Inspect/adjust
D	Brake fluid	200 hrs	24 months	Change every two years
	Idle Speed	As required	As required	Adjust
	Headlight Aim	As required	As required	Adjust if necessary

Lubrication Recommendations

	Item	Lube Rec	Method	Frequency
•	1. Engine Oil	API SN,JASO MA2,Full Synthetic, 10W-50	Add to proper level on dipstick	Check level daily
	2. Brake Fluid	DOT 3 Only	Maintain level Between fill lines. See "16. MAINTENANCE/ Brakes"	As required; 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 (only for 4WD Model)	SAE GL-4 85W/90	See "16.MAINTENANCE/ Front Gear Case Lubrication"	Change annually or at 100 hours



	Item	Lube Rec	Method	Frequency
•	5. Steering system	Grease	Lubricate the pivoting and sliding parts	Every 3 months or 50 hours
•	6. Tie rods	Grease	Grease	Semi-annually
•	7. Shift Linkages	Grease	Locate fittings and Grease	Semi-annually
•	8. Front Wheel bearings	Inspect	Inspect and replace bearings if necessary	Semi-annually
•	9. Ball joints	Grease	Inspect, Locate fittings and Grease, or replace it if necessary	Semi-annually
•	10. Prop Shaft & Shaft Yoke, Spline Joint	Grease	Locate fitting and Grease	Semi-annually
•	11. Front/Rear A-arm pivot Shaft	Grease	Locate fitting on pivot shaft and grease with grease gun	Every 3 months or 50 hours
•	12. Throttle Cable	Grease M	Grease, inspect and replace it if necessary	Monthly or 20 hours
•	13. Accelerator pedal and brake pedal	Grease	Grease, inspect	Monthly or 20 hours

•	14. Rear Wheel Bearing	Inspect	Inspect and replace bearings if necessary	Semi-annually
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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			

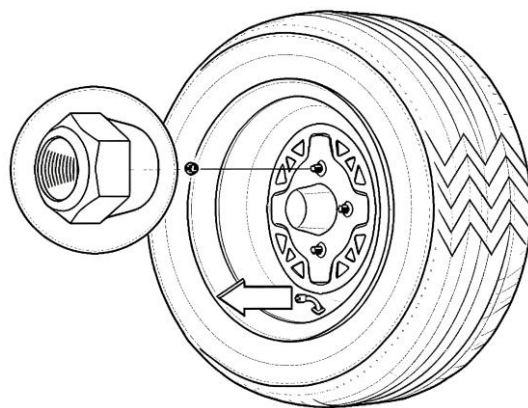
The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.

Wheel Nut Torque Specifications

Bolt Size	Specification	
Front M10X1.25	63Ft.Lbs	85N.m
Rear M10X1.25	63Ft.Lbs	85N.m

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.



Front

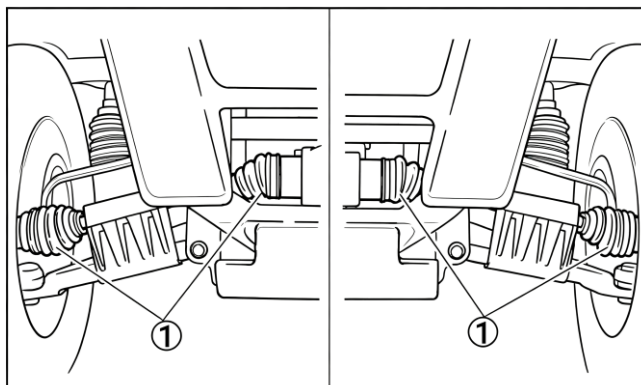
Rear

Tapered nuts: install with tapered side against wheel

Axle Boots

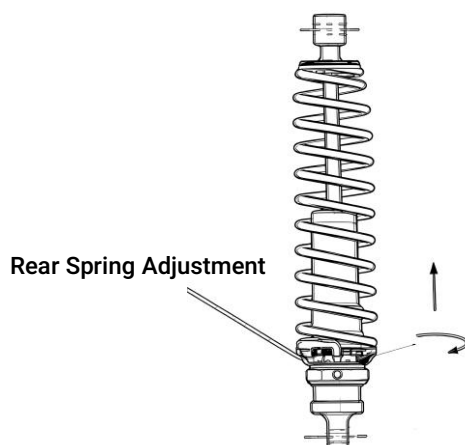
- Rear Prop Shaft Boots.
- Front Axle (CV Joints, 4x4 model) Boots.

Check the protective boots for holes or tears. If any damage is found, have them replaced by an authorized dealer.



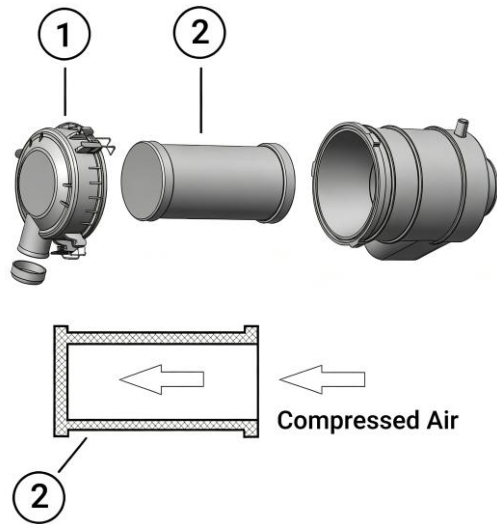
Rear Spring Adjustment

The rear shock absorber spring is adjusted by rotating the adjuster in the direction required to increase or decrease spring tension.



Air Filter Service

1. Remove the seat.
2. Release clips and remove Cover①.
3. Remove the air filter element②.
4. Use compressed air to purge the air filter element.
5. Reinstall the air filter element.
Replace main filter as required.
6. Reinstall the cover and fasten clamp.



Steering

Steering Inspection

The steering assembly of the machine should be checked periodically for loose nuts and bolts, worn tie rod ends, worn boots, and damage.

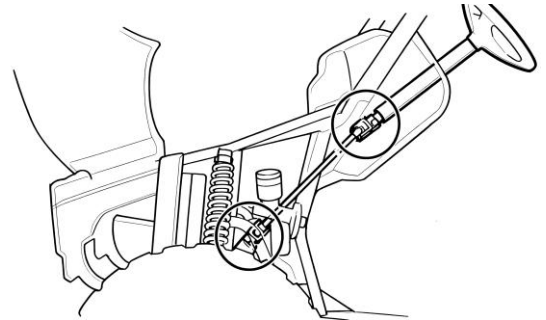
Check the routing of all cables, hoses, and wiring to be sure the steering mechanism is not restricted or limited. If any problems are found, have your dealer repair them before riding your vehicle.

The steering assembly should be also checked periodically for free operation, steering should move freely through entire range of travel without binding. Park on level ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noises, or a rough feeling.

Have an authorized dealer repair as necessary for proper operation.

Lubricate the pivoting parts.

Recommended lubricant: Lithium-soap-based grease



Camber and Caster

The camber and caster are non-adjustable.

Toe Alignment Check

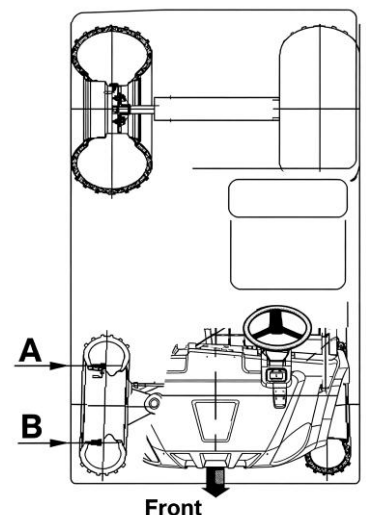


WARNING

Do not attempt to adjust the tie rod for toe alignment. Severe injury or death can result from improper adjustment. Contact your dealer. He/she has the training and tools to make these adjustments.

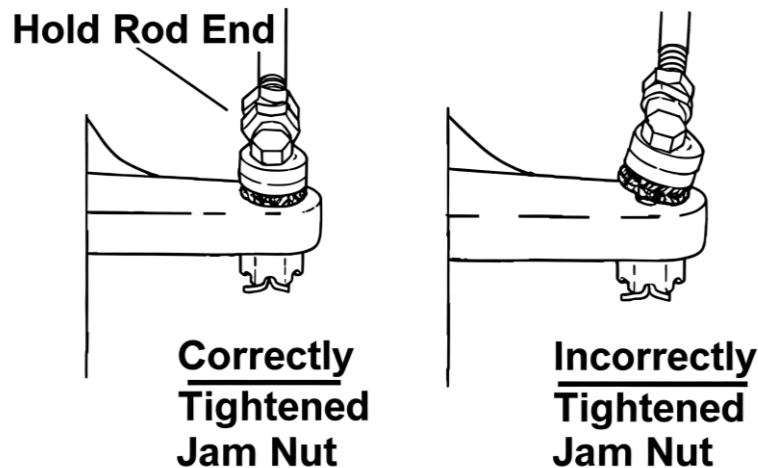
The recommended toe alignment is 1/8" to 1/4" (3 to 6mm) toe out.

1. Set the steering wheel in a straight ahead position and hold it in this position.
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.



! WARNING

If the tie rod is positioned incorrectly or adjusted incorrectly, it will not pivot, may break, and may separate. Severe injury or death can result.



Brakes

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.

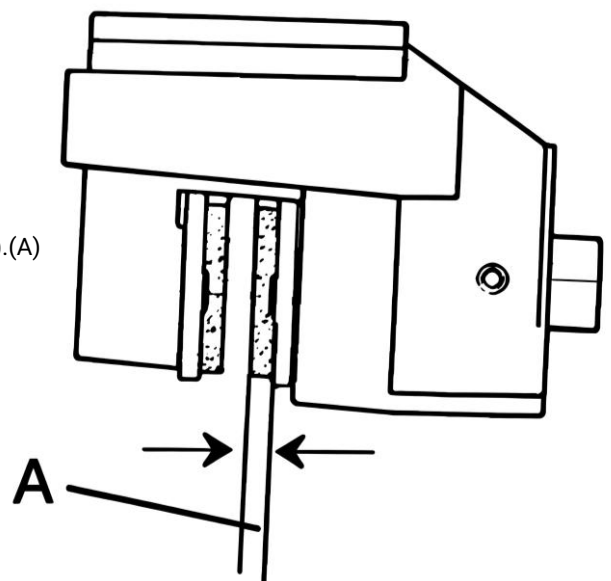
The front brake is a hydraulic disc brake that is operated by depressing the brake pedal. These brakes are self-adjusting and require no adjustment.

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. 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 looseness.
- Check security and surface condition of the disc.
- Pads should be changed when friction material is worn to $\frac{3}{64}$ " (1mm). (A)

Rear Brake

- The rear brake is a hydraulic disc brake that is activated by the same pedal as the front brake. It is self-adjusting and requires no maintenance other than periodic checks of the pads for wear.
- Pads should be changed when the friction material is worn to $\frac{3}{64}$ " (1mm).
- Inspect the brake disc and pad wear surface for excessive wear.



Checking the brake fluid level

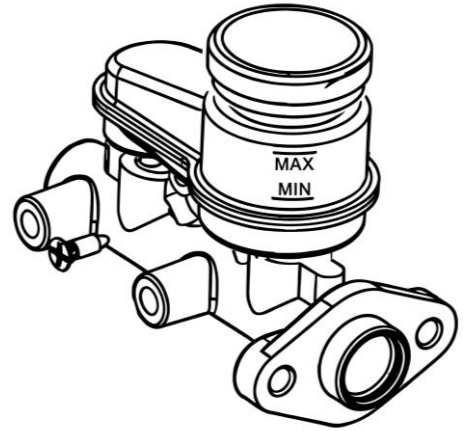
Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

The brake fluid reservoir is located under the hood.

- When checking the fluid level, make sure the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor braking performance.

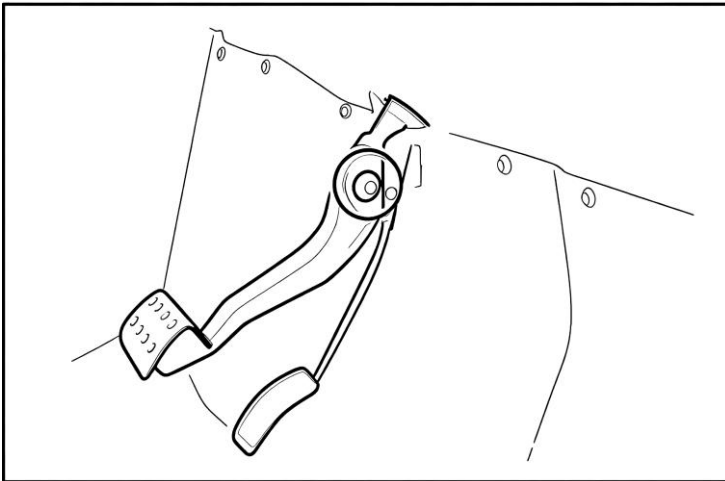
Recommended brake fluid: DOT 3

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- Have an authorized dealer inspect the brake system if the brake fluid level goes down.



Brake pedal and accelerator pedal lubrication

Lubricate the pivoting parts.



Recommended lubricant: Lithium-soap-based grease
(all-purpose grease)

Parking Brake

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 UTV.
2. If the rear wheels are locked, it is adjusted properly.
3. If the wheels are not locked, it must be adjusted.
4. The maximum free play is equal to one click of the parking brake lever. If necessary, adjust the free play as follows.

Adjusting

To adjust (set up) the mechanical parking brake, use the following procedure

Note: The adjusting on the caliper is for the wear out of the pads.

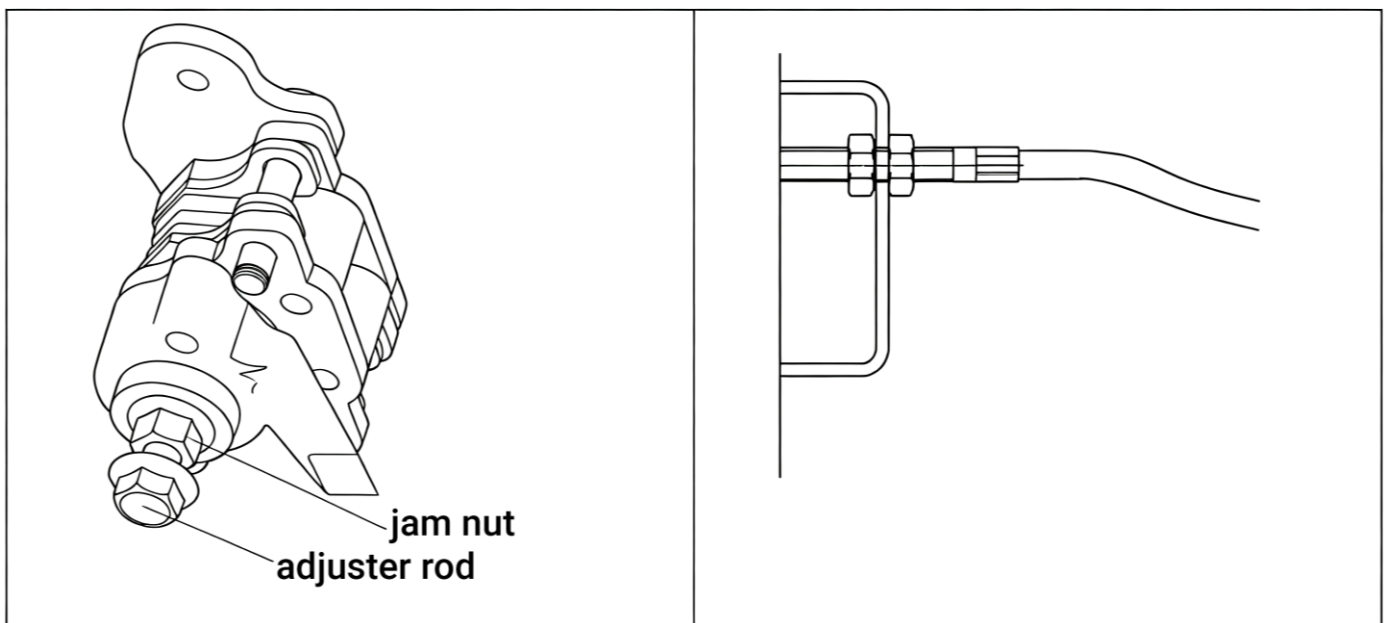
1. With the engine off, loosen the adjustor on the lever.
2. Loosen the jam nut of the adjuster on the caliper.
3. Turn the adjuster (bolt) CW (clockwise) by hand till the pad touch the brake disc, turn the adjuster bolt CCW (counterclockwise) by 1/4 to one turn for 10 to 20mm free play at the end of the parking lever.
4. Tighten the jam nuts securely against the adjusters.
5. Make sure the rear wheels turns freely without dragging.
6. Turn the adjustor (the one on the lever) and apply the lever. While adjusting, it is important you apply the lever back and forth for operation, free play and the locking of the parking position.
7. Make sure the rear wheels turns freely without dragging and parking brake works properly.



CAUTION

Don't over tighten the adjustor. The maximum free play is equal to one click of the parking brake lever.

8. Field test for parking. It must be capable of holding the laden UTV stationary on a 20% up and down gradient.



A temporary adjusting can also be done to the brake cable on the parking lever side by turn the adjuster (nut) directly. But the adjust range is limited. Always do the procedure 1 to 8 when necessary.

1) Parking Brake Indicator (light) Switch Adjustment

2) Throttle Free Play Inspection

1. Apply the parking brake.
2. Put gear in Neutral position.
3. Start the engine, and warm it up thoroughly.
4. Measure the distance the throttle pedal moves before the engine begins to pick up speed. Free play should be 1/16" to 1/8" (1.5-3mm).

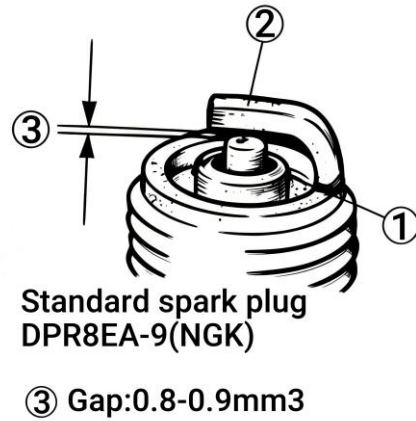
Spark Plugs

Inspect:

- Insulator ①
Abnormal color: Replace.
Normal color is a medium-To-light tan color.
- Electrode ②
Wear/damage: Replace.
Clean: Spark plug (with spark plug cleaner or wire brush)

Measure:

- Spark plug gap ③
Out of specification: Adjust gap.



Spark Plug Removal and Replacement:

- a. Remove the spark plug by rotating counterclockwise.
- b. Reverse the procedure for spark plug installation.
- c. Torque to 17 ft.lbs (23N.m).

WARNING

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

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).

1) Rear Gearcase Lubrication



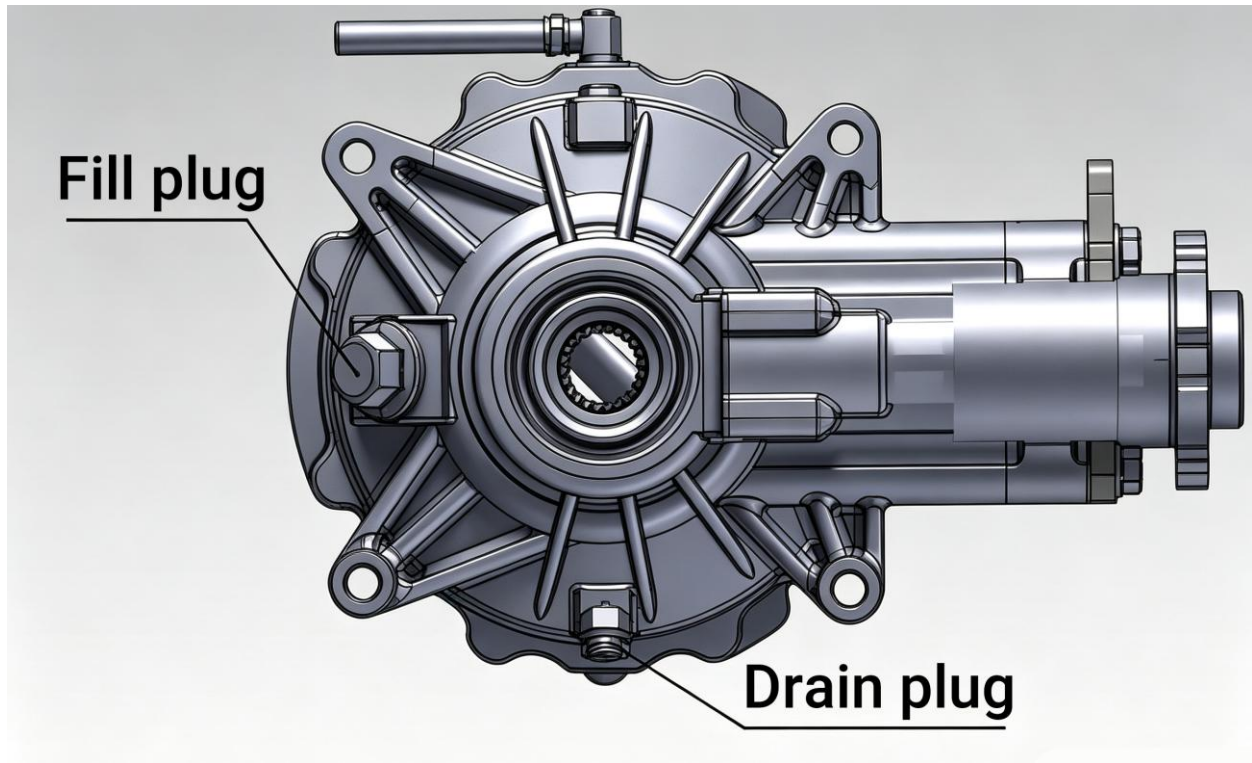
CAUTION

Be sure no foreign material enters the gear case.

With the UTV 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 (11~15ft.lbs/15~20N.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 (26~30ft.lbs /35~40N.m).
5. Check for leaks.

2) Front Gearcase Lubrication

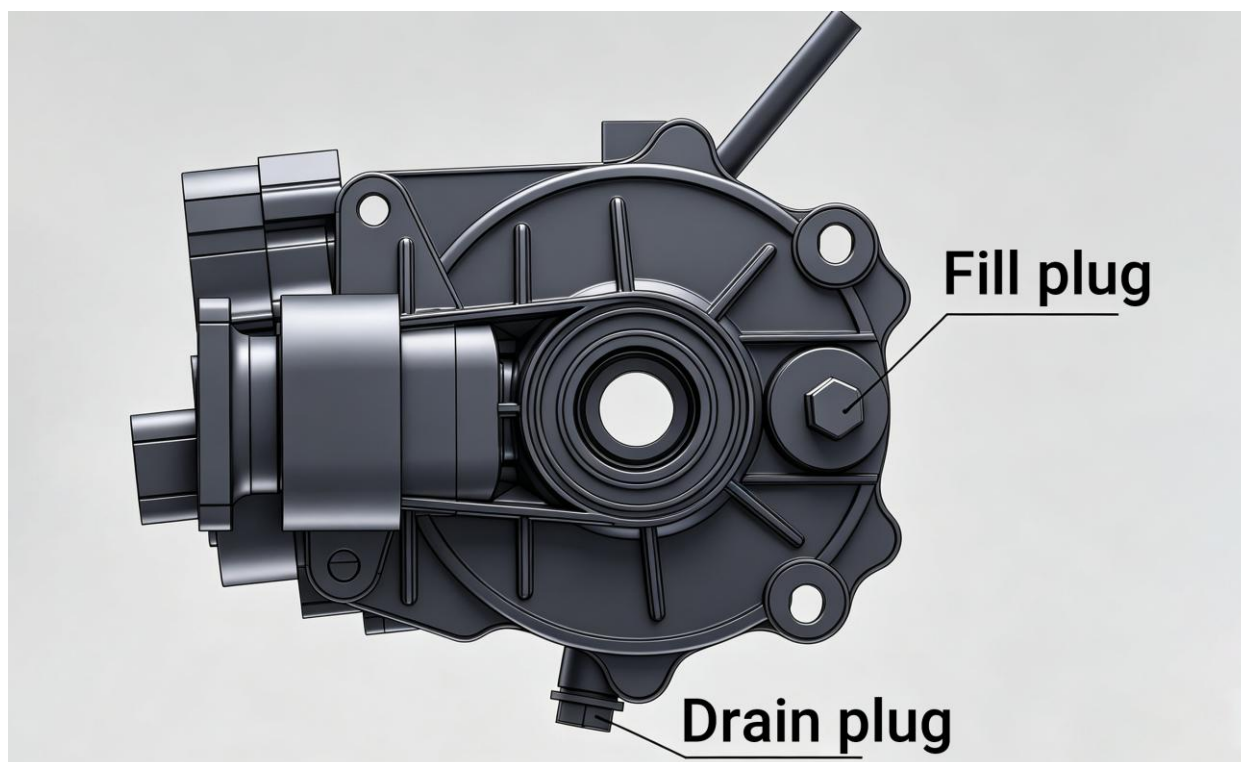


CAUTION

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 gear case lubricant to use is SAE GL-4 85W/90 Weight Gear Lube.



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 (14.8ft.lbs/20N.m).
3. Remove the fill plug and add 7-8.5 ounces (200ml-250ml) 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 (18.4ft.lbs/25N.m).
5. Check for leaks.

Wheels and Tires

WARNING

Operating your UTV 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.

1) Important Safeguards

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

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

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

Tire Pressure	
front	rear
see details on the tire sidewall	see details on the tire sidewall

2) 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.

3) Wheel Installation

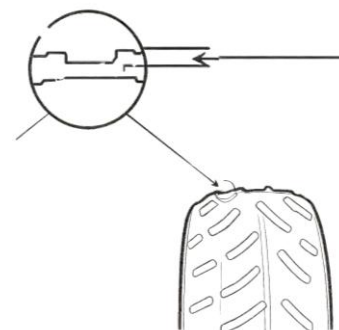
1. With the transmission in gear and the parking brake locked, place the wheel in the correct position on the wheel hub. Be sure the valve stem is toward the outside and rotation arrows on the tire point toward forward rotation.
2. Attach the wheel nuts and finger tighten them.
3. Lower the vehicle to the ground.
4. Securely tighten the wheel nuts according to the chart found in "16.MAINTENANCE / Wheel Nut Torque".

4) Tire Inspection

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

5) 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.



Lights



WARNING

Keep your headlights and taillights clean. Poor lighting while riding can result in an accident causing severe injury or death.



CAUTION

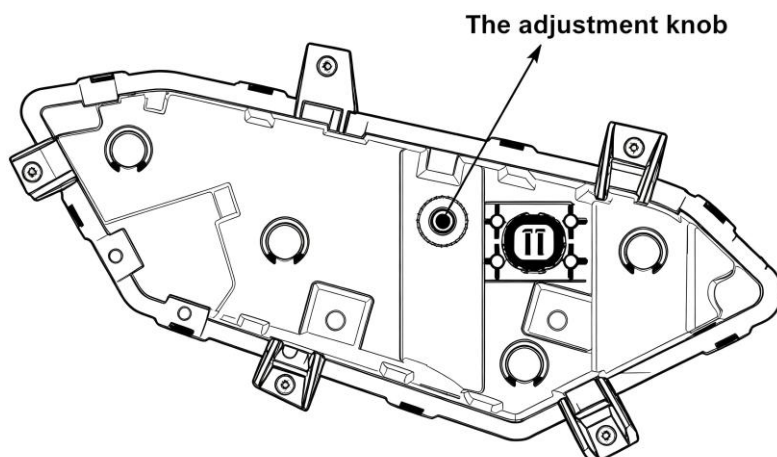
Do not service while headlight is hot. Serious burns may result.

Headlight Bulb Replacement

Both headlight assemblies are LED and cannot be repaired if damaged or failed. Please have your dealer replace the entire assembly when the LED light is damaged or fails.

Headlight Lamp Adjust

It is advisable to have your dealer make this adjustment. Turn the adjusting screws to raise or lower the beam.



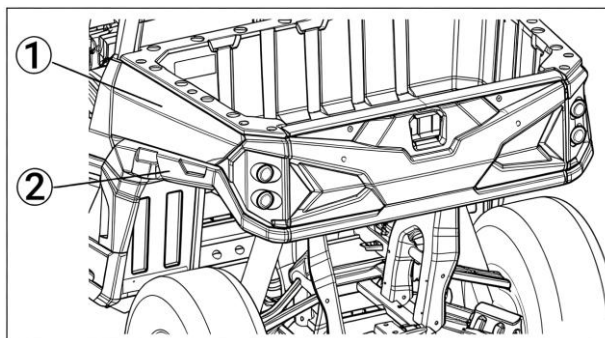
1. To lower headlight brightness cut-off line, turn adjusting bolt (1) counterclockwise. And to raise brightness cut-off line, turn the bolt clockwise.
2. This type of headlight is LED , do not try to replace the bulb, if there is a problem with the headlight, please contact the dealer.

Taillight / Brake light Lamp Replacement

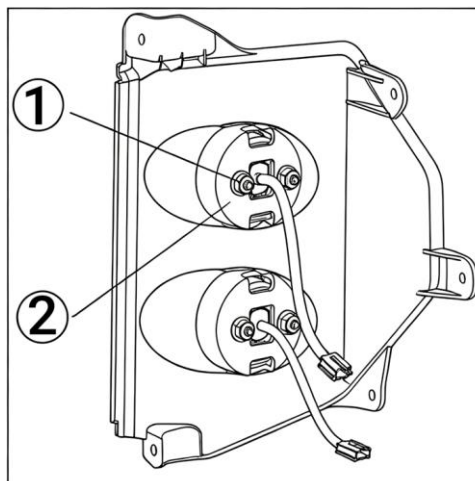
If the Taillight / Brake light does not work the lamp may need to be replaced.

1. Remove the Side Cover A ①.

2. Remove the Side Cover B ②.



3. Remove the Nut ①.
4. Take off the Taillight / Brake Light.
5. Remove bulb and replace it with recommended bulb.
6. Test the Taillight/ Brake Light to see that it's working.
7. Re-install the Light and Nuts.



Cleaning Your UTV

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

1) Washing

Never use a high-pressure type car wash system; it can damage 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 UTV 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.

2) Waxing

Your UTV 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



CAUTION

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

1. Cleaning

Clean the UTV thoroughly.

2. Fuel

To avoid possible fire, drain the fuel tank for long-term storage. However, when starting the UTV again, ensure that there is enough fuel in the fuel tank (The fuel gauge indicator is more than one grid).

3. Oil Add and Filter Change

Warm the engine and change oil and filter.

4. Air Filter/Air Box

Inspect and clean or replace the pre-cleaner and air filter. Clean the air box and drain the sediment tube.

5. 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).

6. Fog the Engine

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

7. Check and Lubricate Cables/Grease

Inspect all cables and lubricate.

8. Battery Maintenance

Remove the battery and store in a dry place. Apply Dielectric Grease to the terminal bolts and terminals. Often charge the battery.

9. Storage Area/Covers

Set tire pressure and safely support the UTV with the tires 1-2" (25-50mm) off the ground. Be sure the storage area is well ventilated. Cover the machine with a UTV 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 UTV is to be transported the following measures should be taken.

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

17. Troubleshooting

Driven Clutch (CVT) Burning Caused by Improper Operation

Possible Causes	Solutions
Loading the UTV into a pickup or tall trailer when in high range.	Shift transmission to Low Range during loading of the UTV to prevent belt burning
Starting out going up a steep incline	When starting out on an incline, use low range. When parking, first applying the park brake and perform the "K" turn, then dismount the UTV.
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 UTV's exposed to low ambient temperatures.	Warm the engine for at least 5 minutes. Then, with the transmission in neutral, advance the throttle to approximately 1/8 throttle in short bursts, 5 to 7 times.
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.

Low Battery

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



WARNING

This UTV is equipped with EFI system, If the battery is below 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.

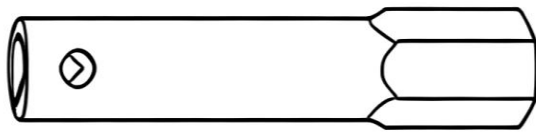
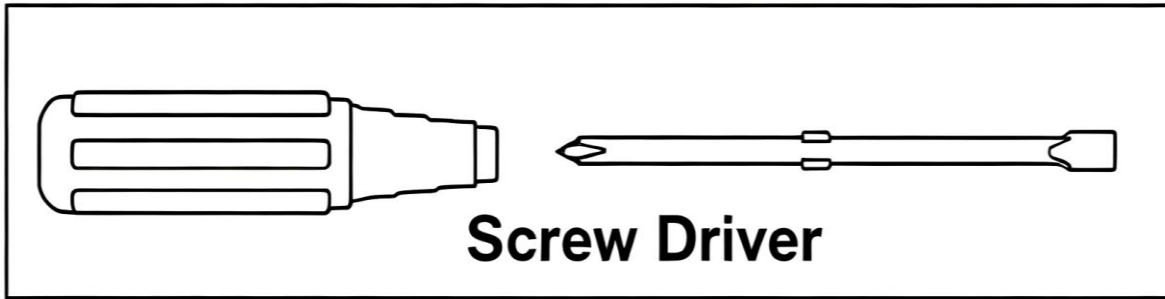
Problem/Issue	Parts Inspection		Possible Causes
Starting Failure / Hard Starting	Fuel System	Fuel tank	• Empty • Clogged fuel tank breather pipe • Deteriorated fuel or fuel containing water or foreign material • fuel filter clogging • the fuel pressure not correct
		Throttle body	• The connection is not good
		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 • 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

Problem/Issue	Parts Inspection		Possible Causes
		Wiring	• Loose battery terminal • Loose coupler connection • Improperly grounded • Broken wire harness
Poor Idle Speed Performance	Air cleaner		• Clogged air cleaner element
	Ignition system		• Faulty spark plug • Faulty high tension cord • Faulty ignitor unit • Faulty pickup coil • Faulty ignition coil
	Valve system		• Improperly adjusted valve clearance
	EFI		• the fuel pressure not correct • fuel injector clogging • fuel filter clogging
Poor Medium and High-Speed Performance	Air cleaner		• Clogged air cleaner element
	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 • Fuel filter clogging • the fuel pressure not correct
	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 • Faulty ignitor unit • Faulty pickup coil • Faulty ignition coil

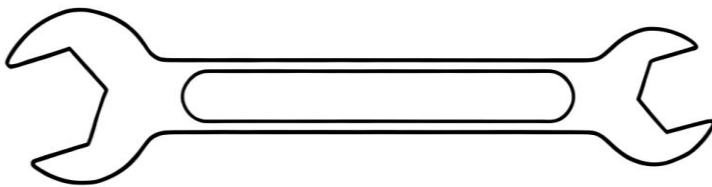
Problem/Issue	Parts Inspection	Possible Causes
	Valve system	• Improperly adjusted valve clearance
Over-Cooling	Cooling system	• Faulty thermostat • Faulty thermo switch
Over heating	Ignition system	• Improperly spark plug gap • Improper spark plug heat rang • Faulty igniter unit
	Compression system	• 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 UTV 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)
Poor Starting Performance	V-belt	• Slipping/oily V-belt • Worn front hub bearing
	Primary sliding sheave	• Improper operation • Damage
	compressing spring	• Worn/loose

Problem/Issue	Parts Inspection	Possible Causes
	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

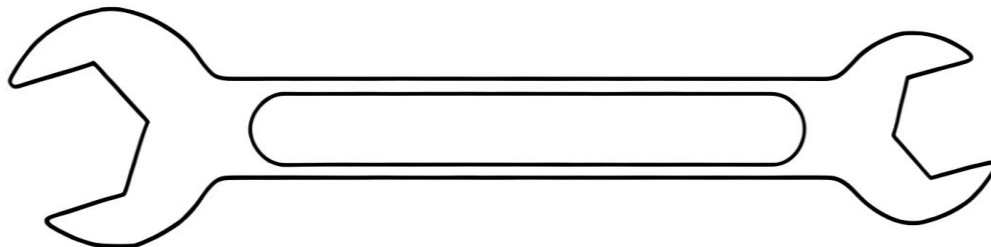
18. Tools



Spark Plug Wrench



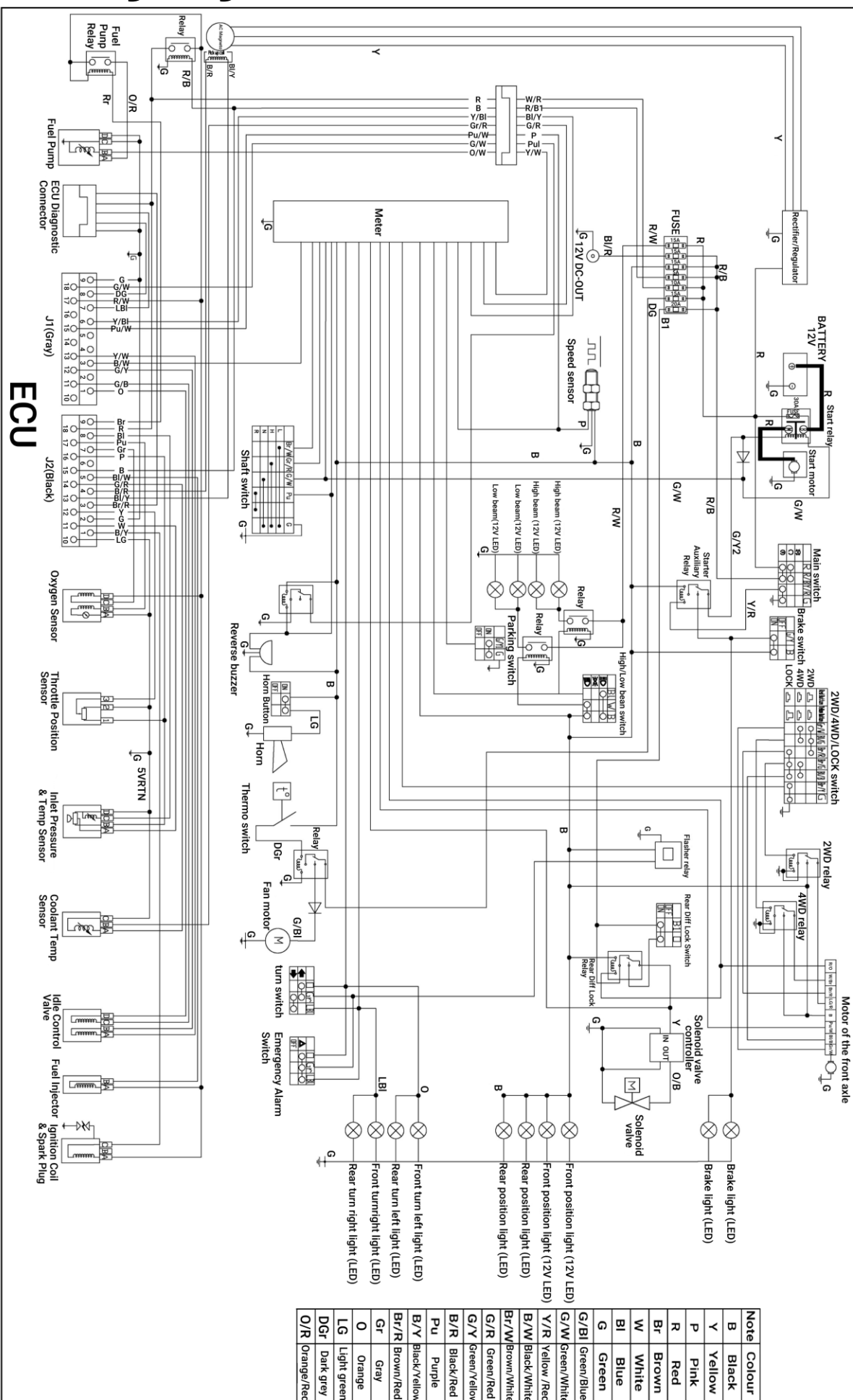
Wrench (8,10mm)



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

19. Wiring Diagram

WIRING DIAGRAM



20. Specification

Dimensions & Capacities			
L x W x H	2790×1470×1920 mm		110×58×76 in
Seat height	860 mm		33.8 in
Wheel Base	1855 mm		73 in
Turn Radius	Outer: 4500 mm		177 in
	Inner: 3000 mm		118 in
Ground Clearance	285 mm		11.2 in
Fuel capacity	26 L		6.87 US gal
Engine Oil Capacity	2.2 L		0.58 US gal
Dry Weight	525 kg		1158 lb
Cargo Bed Maximum load limit	150 kg		331 lb
Load Capacity (Combined Rider & Payload)	300 kg		661 lb
Gross Vehicle Weight (Maximum Technically Permissible Mass)	855 kg		1885 lb
Tongue Weight	11 kg		24 lb
Tow Capacity	200 kg		441 lb
Drive System			
Drive System	CVT		
Front Tire	25x8-12		
Rear Tire	25x10-12		
Tire Pressure (front)	see details on the tire sidewall		
Tire Pressure (rear)	see details on the tire sidewall		
Brake System			
Brake	Front Brake	Dual Hydraulic Disc	Front and rear unified
	Rear Brake		
	Operation	Foot	
Parking Brake		Mechanical Disc	
Suspension			
Front	Twin A-arm independent suspension		
Rear	Twin A-arm independent suspension		
shock absorber	Coil spring/oil damper		

Engine	
Engine Type	LH188MR-A 4-Stroke, Single Cylinder, SOHC
Bore x Stroke	87.5mm × 82mm
Displacement	493cc
Starter System	Electric Starter
Engine Cooling	Liquid-Cooled
Lubrication System	Wet Sump
Ignition System	ECU
Spark Plug	DPR7EA-9 (NGK)

Electrical Equipment			
Battery		12V 20Ah (12V 30Ah FOR EPS MODEL)	
Headlight		LED ×2	
Brake/Tail Light		LED	
Front Position Light		LED ×2	
Specified fuses	Main Fuse	30 A	On the start relay
	Backup Fuse	30 A	
	Ignition System Fuse	15 A	In the fuse box
	Accessory Socket Fuse	15 A	
	Signaling/ Lighting System Fuse	15 A	
	Fan-motor Fuse	15 A	
	ECU1 Fuse	5 A	
	ECU2 Fuse	10 A	
	Solenoid valve Fuse	20 A	
	EPS Fuse	30 A	

21. Assembly Instructions

1. Dismantle shipping Frame



- Dismantle the top of the frame and the four sides of the frame.
- Dismantle the two nuts in the circle.
- Raise frame with forklift truck, remove frame and package.

2. Install rear suspension



①

- Install the rear suspension struts (right & left) using two bolts ① M10×1.25×62.5 and two nuts M10x1.25.

Same procedure for left and right sides.

3. Install front suspension



①

- Install the front suspension struts (right & left) using two bolts ① M10×1.25×57 and nuts M10.

Same procedure for left and right sides.

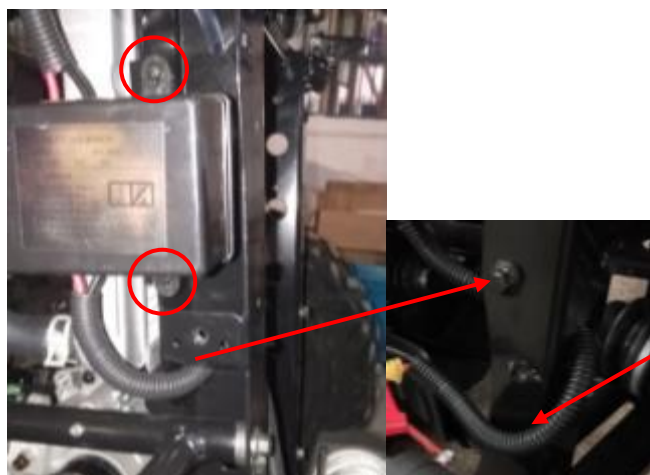
4. Install wheels



- Install the wheels on the hubs using lugnuts ①.
Make sure tapered end of lug nut seats into taper on the wheel.

CAUTION: If wheels are improperly installed it could affect vehicle handling and tire wear.

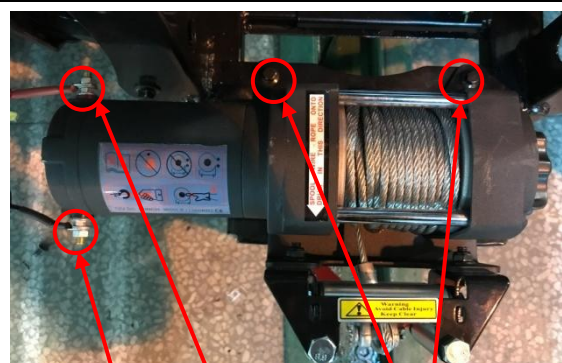
5. Install the winch controller



- Install the winch controller on the frame using two bolts M5x16.

The chart shows the direction of the circuit.

6. Install winch



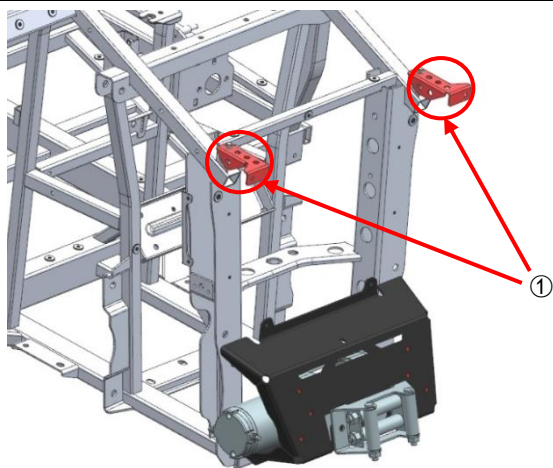
Negative Positive

①



- Install the bracket to the frame with four bolts② M8X20.
- After installing the front winch, connect the positive and negative motor wiring of the tractor controller.

7. Install the front cover

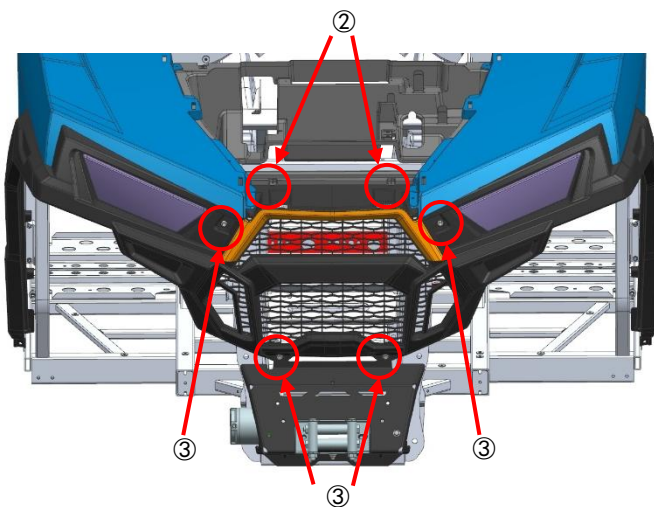


- Install the hood bracket on the frame with two bolts M6×12
①.
- Install the front bodywork to the frame with four bolts
③ M6×16, two tapping screws
② M5×16 and two nuts M6

Connect the cable for the high beam.

Connect the cable for the turn signal.

Connect the cable for the low beam.

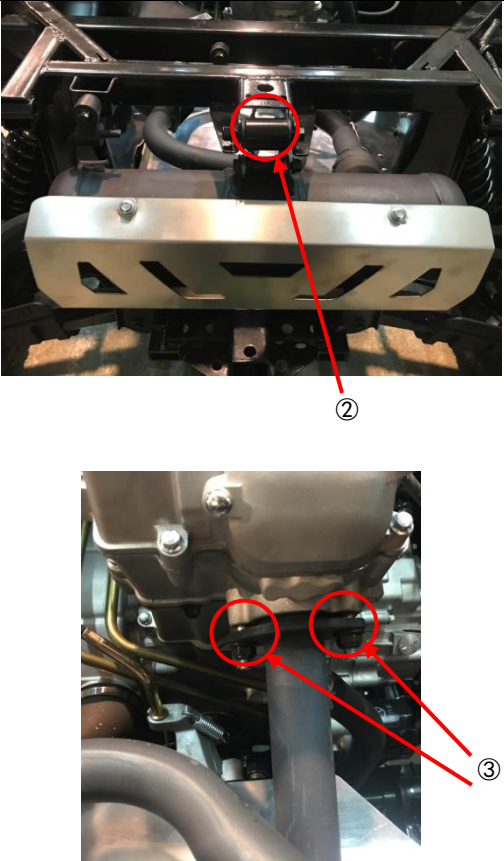


8. Install the front bumper



- Install the front bumper with four bolts M8x20.

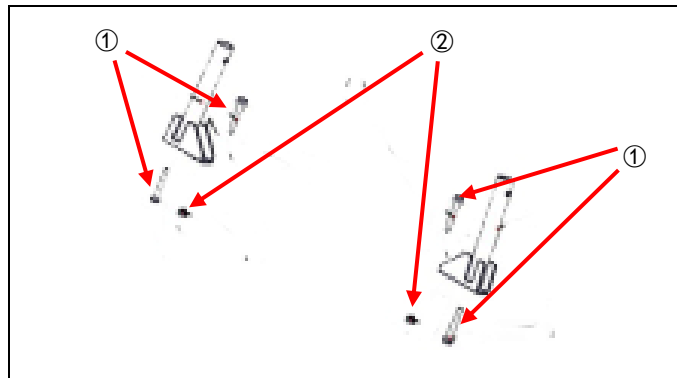
9. Install the exhaust

 ② ③	• Install the muffler on the frame with bolt② M10×1.25×70 and nut M10. • Install the exhaust pipe and gasket with two bolt③
 Insert into the hole	• Connect the cable of the Oxygen Sensor and secure it to the frame.

10. Install the assist grip assembly if applicable

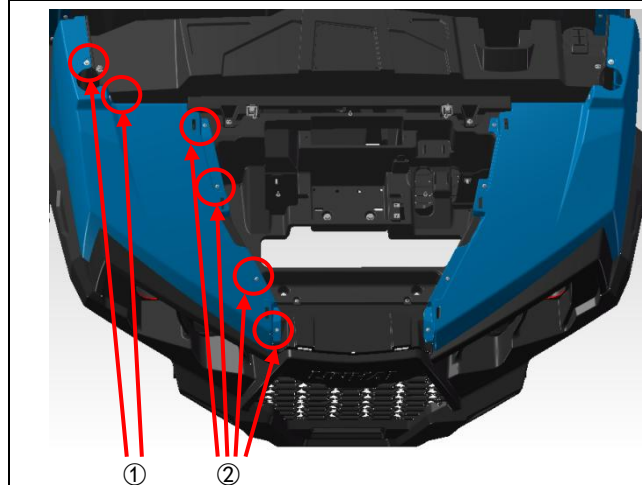
	• Install the assist grip assembly with four bolts M8X20 and four nuts M8.
---	--

11. Install the front lower

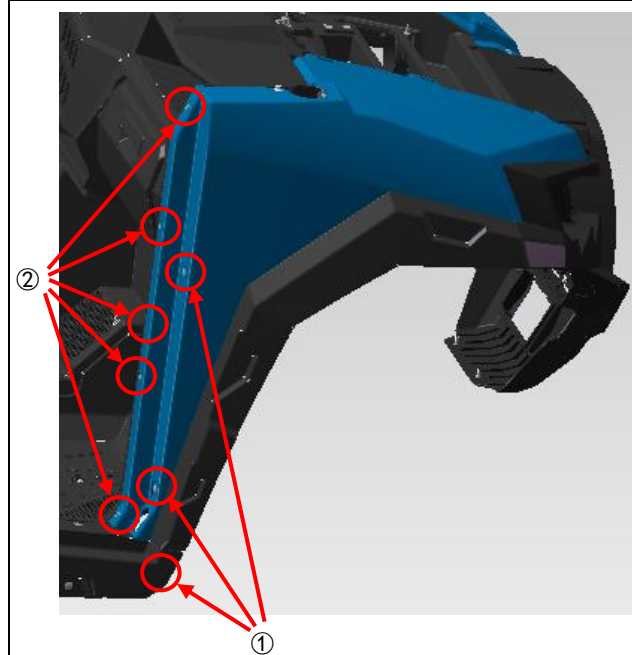


- Install the front lower roof frame with four bolts ① M10x1.25x62 and two nuts ② M10x1.25.

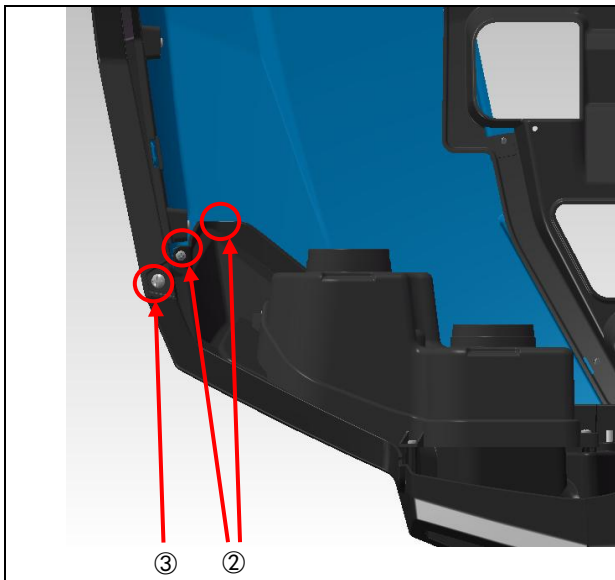
12. Install the Lower Front fenders (right & left)



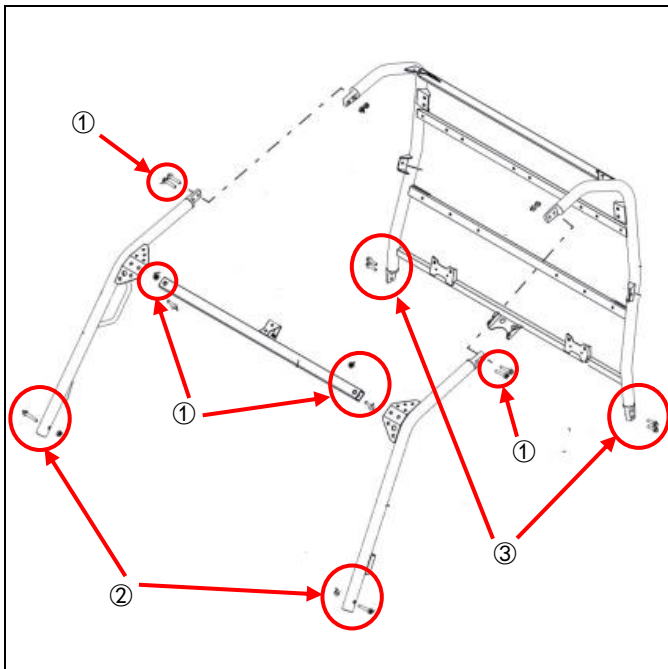
- Install the Lower Front fenders with eleven tapping screws ② M5 × 16 and six screws ① M6 × 20.



Same procedure for left and right sides.



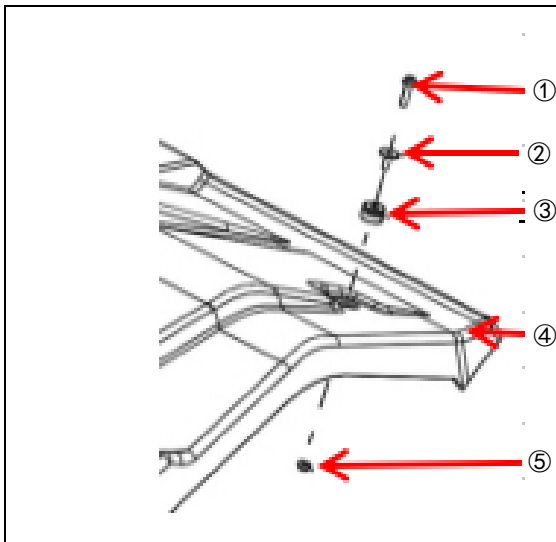
13. Install the roof frame



- Join the roof frame members, rear, base and top with six bolts ① M10x1.25x50 and six nuts M10.
- Install the roof frame on the car frame using two bolts ② M10x1.25x57, four bolts ③ M10x1.25x35 and two nuts M10x1.25.

Note: The bolts at the front are installed from the inside to the outside.

14. Install the roof panel



- Install the roof panel ④ on the roof frame using five bolts ① M6x25, ② five T-shaped liner bushing, ③ I-shaped rubber damper and ⑤ five nuts M6.

15. Install the seat belt buckles



- Install the seat belt buckles on the roof frame using two bolts M6x16.

Same procedure for left and right sides.

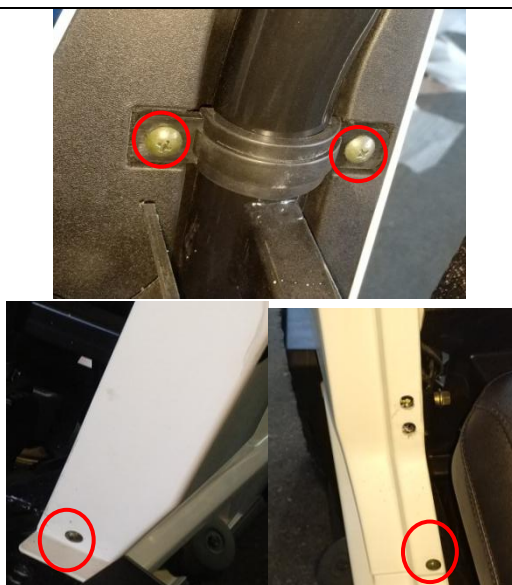
16. Install the rearview mirrors



- Install the rearview mirrors on the roof frame using two inner hexagonal bolts.

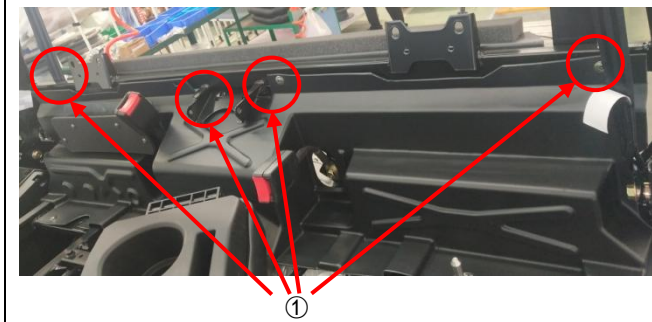
Same procedure for left and right sides.

17. Install the upper panel



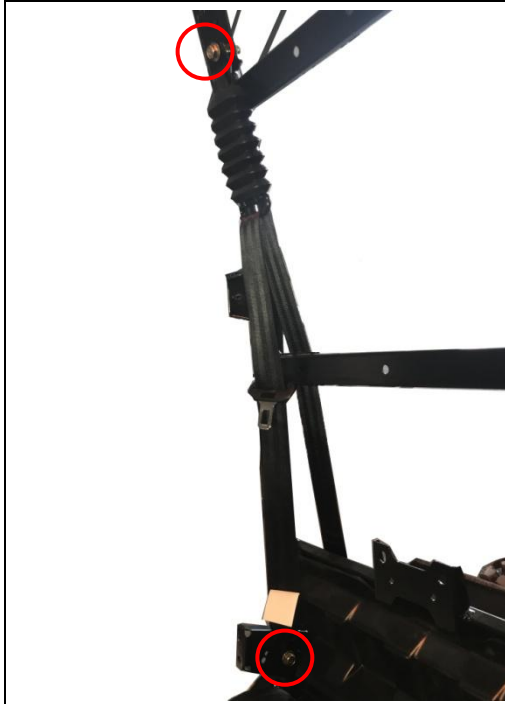
- Install the upper panel with four tapping screws.

18. Install the seat heat protection plate



- Install the heat protection plate on the roof frame using four bolts ① M6x20.

19. Route the seat belt

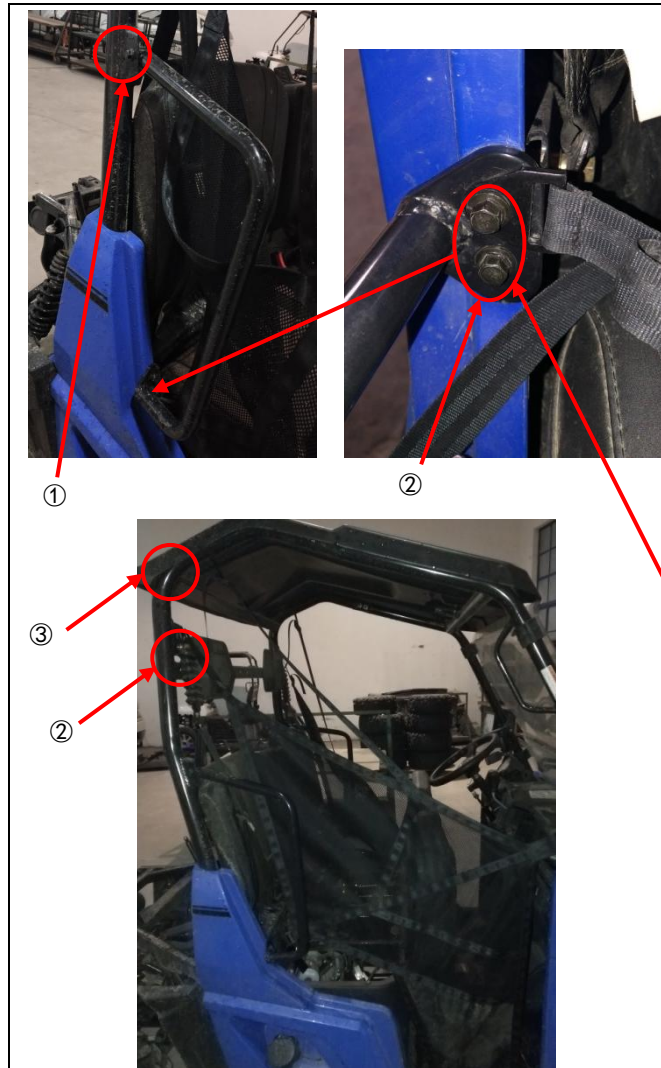


- Attach the seat belt to the roof frame with attachment bolts.
Note: Make sure the belt is passed through from the front of the head rest bracket and is threaded from the back of the back rest bracket so as to avoid the damage of the belt caused by friction between the belt and the metal plate.

WARNING

Be sure the seat belt is close-fitting across your hips and chest and is latched securely. If not it will cause serious personal injury or death.

20. Install the handrest pipe and safety net



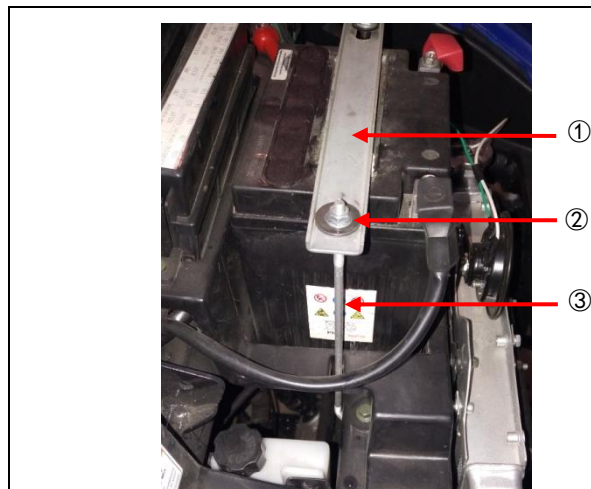
- Install the handrest pipe(right) with bolt①M8x25 and two bolts②M8x20.

- Install the net(right)with bolt③M6x16 and bolt②M8x20.

Same procedure for the left and right sides.

Note: One of the attachment points of the net is shared with the handrest pipe.

21. Install the battery



- Install the battery using plate①,two nuts②M8,and the two fastening rods of battery③.

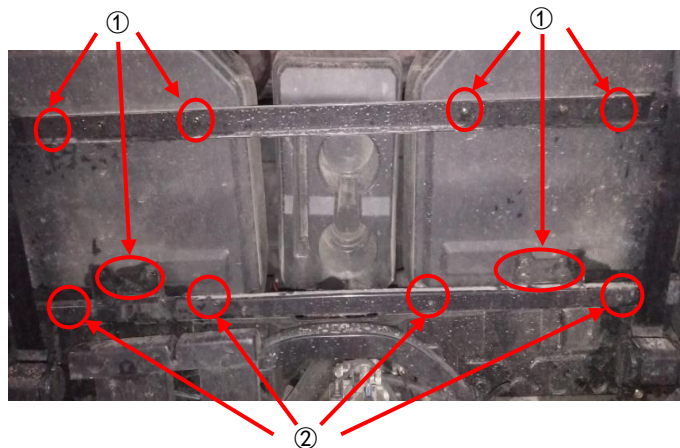
Note: The positive and negative battery cables need to be connected.

22. Install the fixed hood



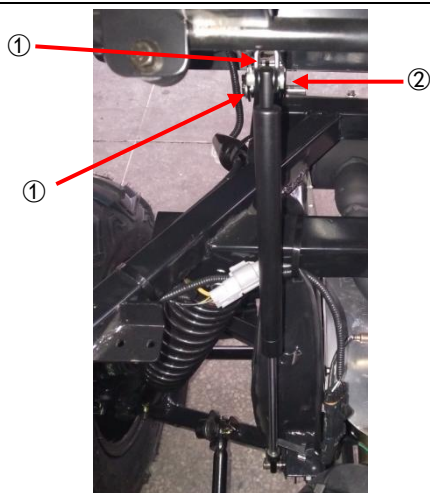
- Install the fixed hood with two bolts M6x20.

23. Install the backrests and fender



- Install the backrests on the roof frame with eight bolts① M8x20.
- Install the fender with four bolts②M6x20.

24. Install the cargo box



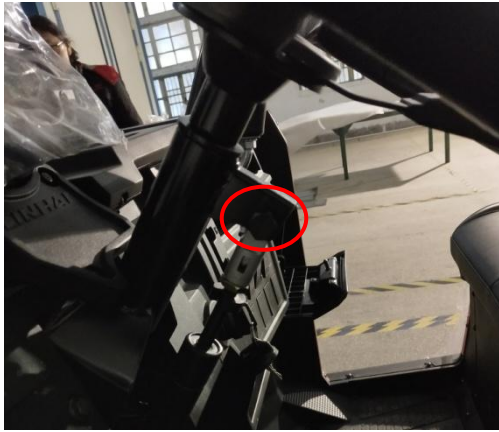
- Attach the gas strut to the cargo bed using washer①10, pin③ and cotter pin②2.5x20



- Install the cargo box using two pins with bolts M6x12, washer M6 and spring washer M6.

Same procedure for left and right sides.

25. Install the steering column gas strut



- Install the steering column gas strut to the steering with bolt M8x30 and nut M8.

26. Install the side bumpers



- Install the side bumper to the frame with the four pairs of M6x20 bolts and M6 washers.

Same procedure for left and right sides.

27. Verify oil levels and test the UTV

- Inspect transmission and engine oil levels and test drive your UTV. (Read owner's manual prior to operation).

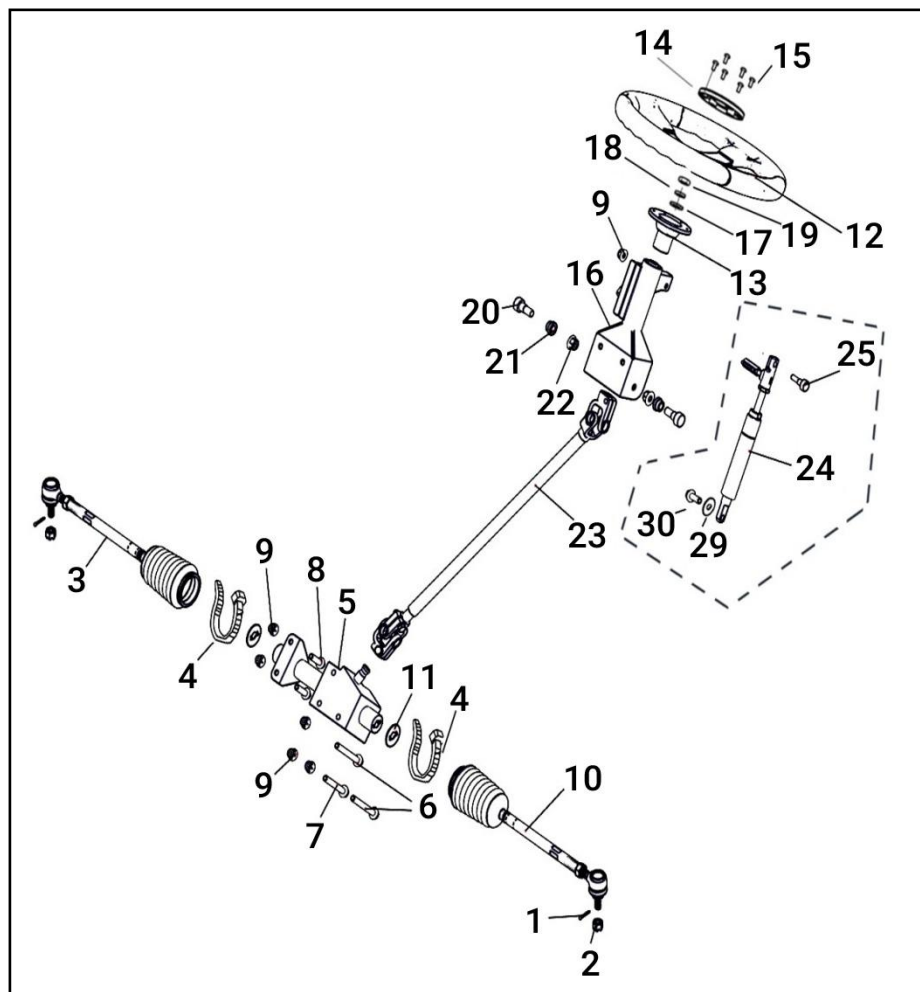
22. Registering Your ATV or UTV in Canada

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.

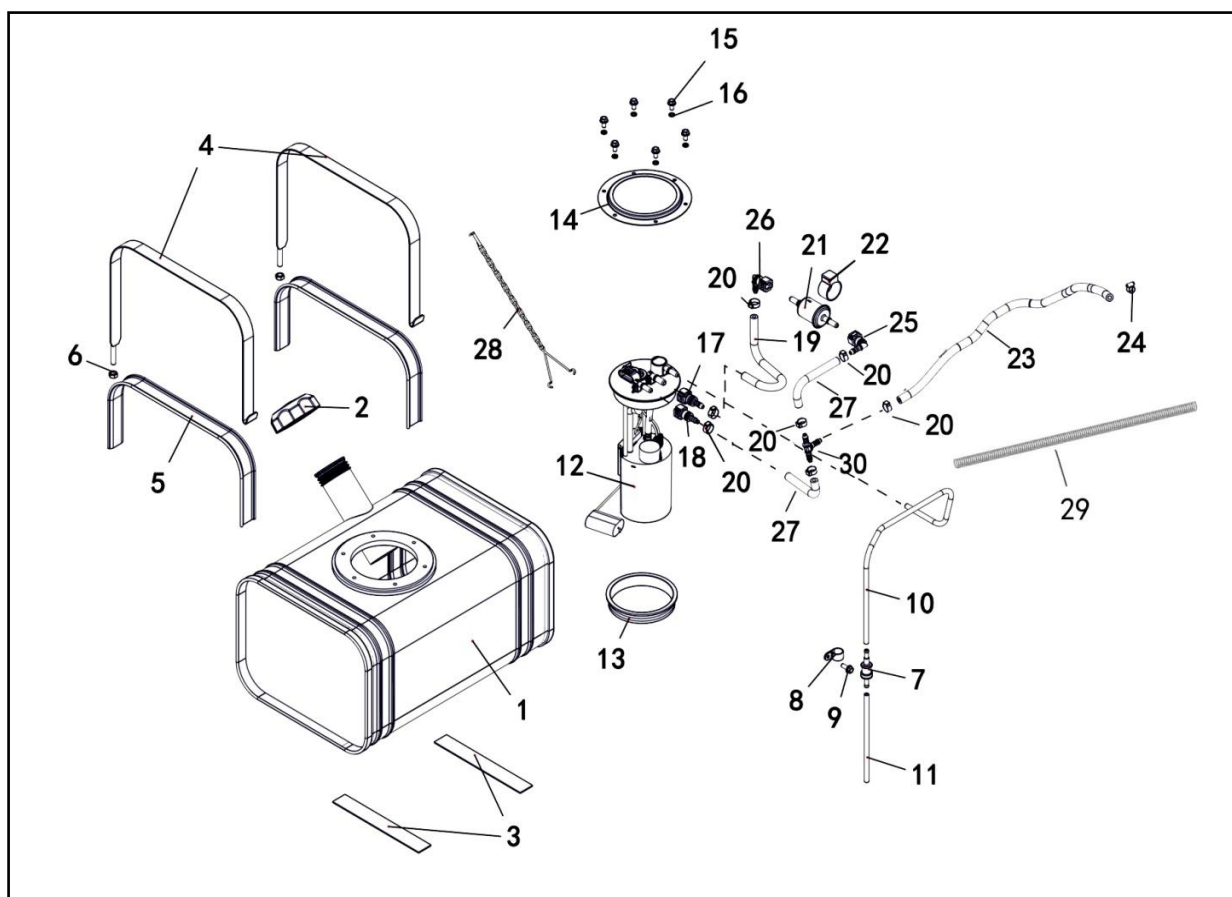
Province / Territory	Does Your ATV / UTV Need to Be Registered?	Where Do you Register?	Recommended Documents to Bring
British Columbia	Yes. ORVs should be registered within 10 days of purchase. ORVs used on Crown land must be registered and display the registration plate/sticker.	ICBC Autoplan Broker	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

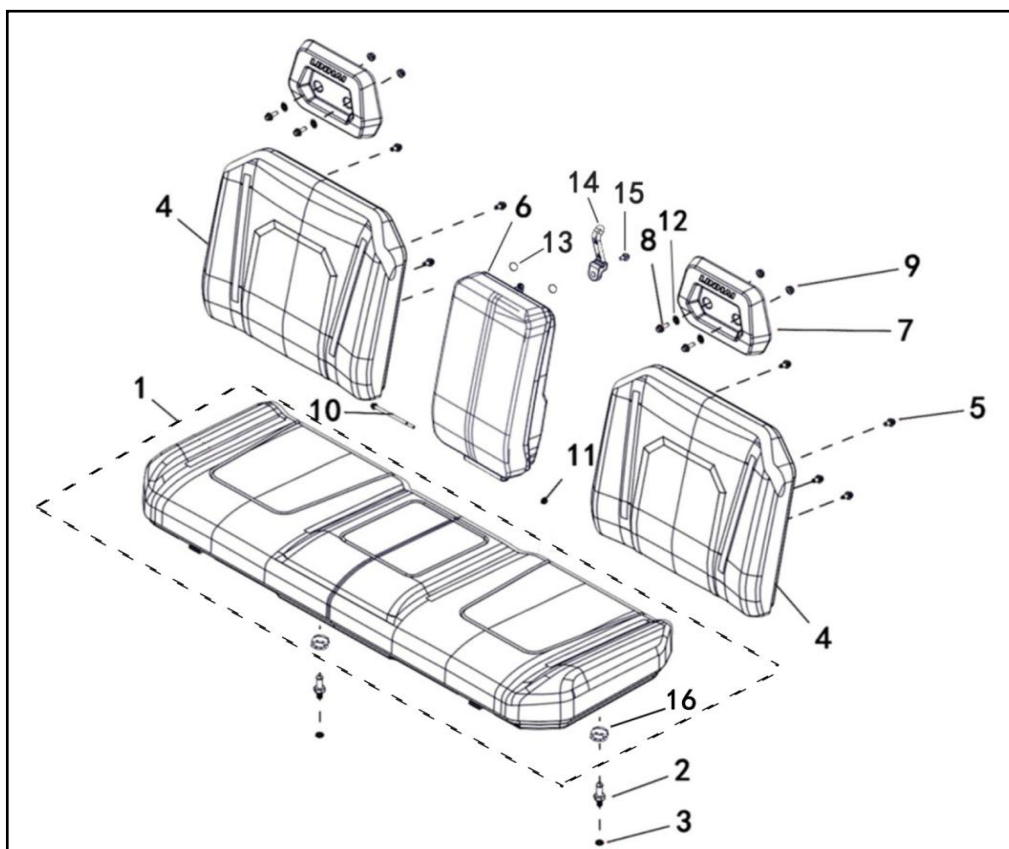
V01-Steering Assembly



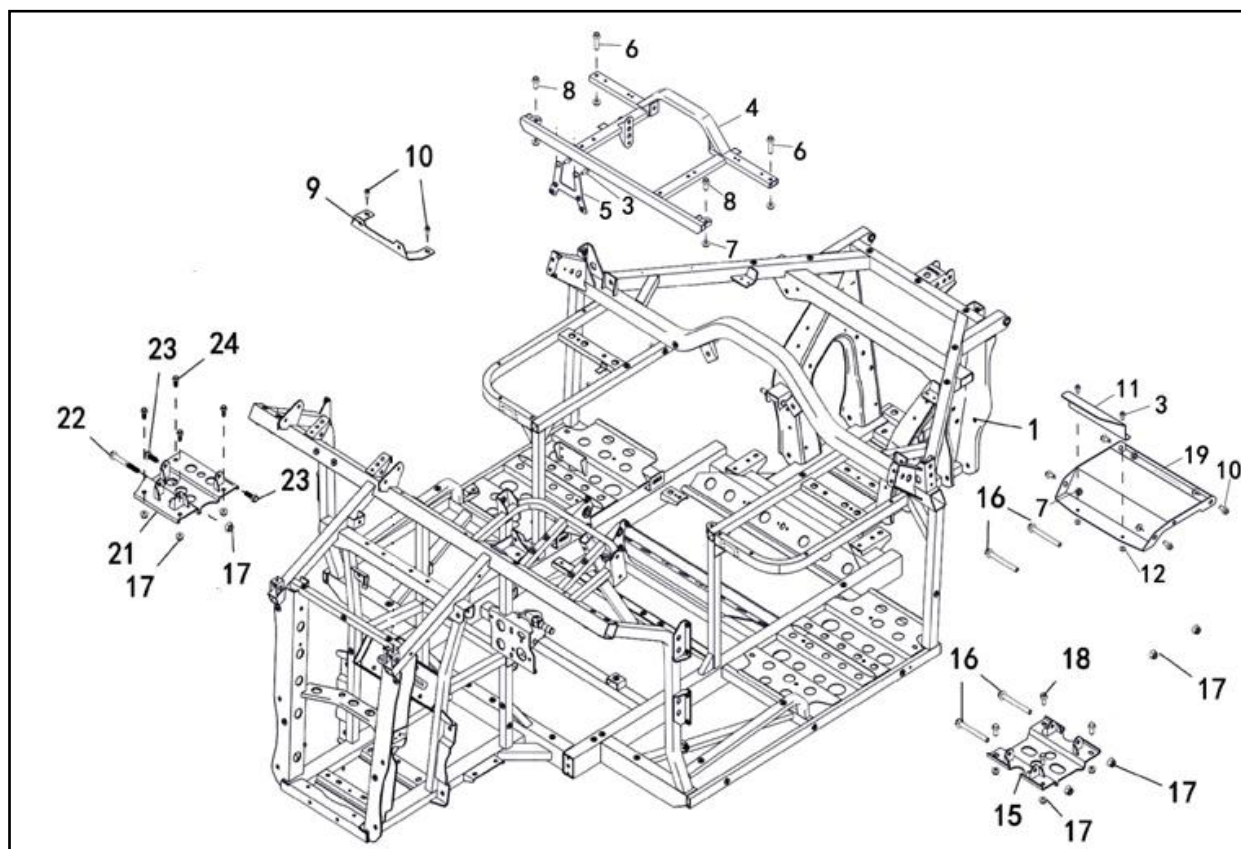
Ref. No.	Part No.	Description	Qty.
1	27215	Pin 2.5×25	2
2	27067	Nut M10×1.25	2
3	48102	Steering Tie-Rod, RH	1
4	48326	Tie	2
5	48098	Steering Motor	1
6	10118	Bolt M8×95	2
7	11244	Bolt M8×80	1
8	10783	Bolt M8×20	2
9	10882	Nut M8	6
10	48103	Steering Tie-Rod, LH	1
11	48104	Steering Motor Sheet	2
12	26925	Steering Wheel	1
13	26932	Steering Wheel Holder	1
14	26934	Steering Cover	1
15	73072	Screw M5×10	6
16	48097	Steering Column Assy.	1
17	11794	Washer 12	1
18	10054	Washer Spring 12	1
19	26257	Nut M12	1
20	73143	Shoulder Bolt M10×1.25×30	2
21	73125	Bushing For Adjustable Steering Wheel	2
22	11287	Nut M10	2
23	48194	Shaft Steering	1
24	73118	Adjustment Cylinder	1
25	73119	Shoulder Bolt M8×1.25×30	1
26	11792	Washer 6	1
27	11233	Nut M6	1



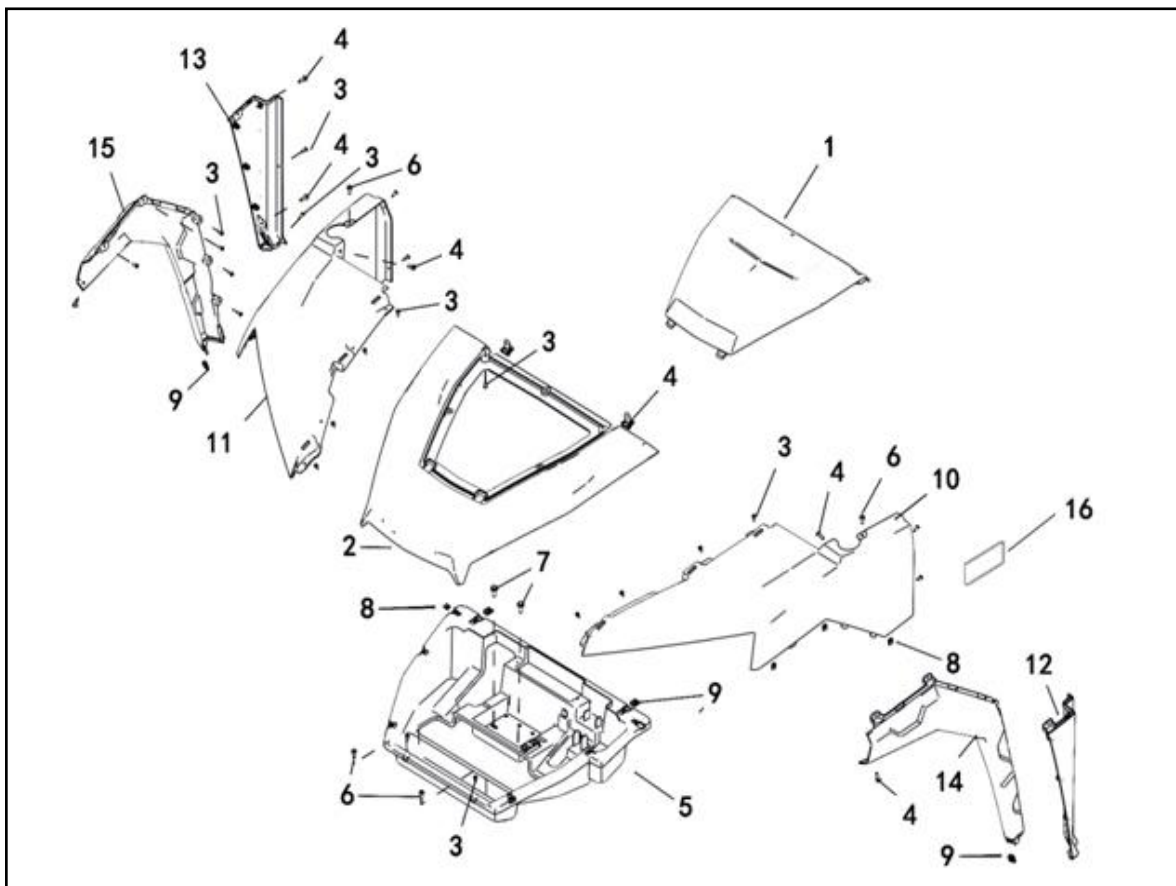
Ref. No.	Part No.	Description	Qty.
1	47603	Fuel Tank Comp Steel	1
2	48673	Cap Fuel Tank	1
3	73051	Rubber Damper	2
4	47604	Strap For Steel Fuel Tank Mounting	2
5	73052	Rubber Strap	2
6	10882	Nut M8	2
7	25037	Rollover Valve	1
8	25351	Bracket, Rollover Valve	1
9	11495	Bolt M6×16	1
10	48032	Hose 1	1
11	48033	Hose 2	1
12	48124	Fuel Pump	1
13	73154	Sealing For Fuel Pump Steel Tank	1
14	47606	Bracket For Fuel Pump	1
15	10140B	Bolt M6×12	6
16	11019	Washer Spring 6	6
17	73145	Quick Fitting Assy 9.49	1
18	73146	Quick Fitting Assy 7.89	1
19	48029	Fuel Line 1	1
20	48122	Clip 14.6	7
21	48318	Fuel Filter	1
22	70845	FUEL FILTER SUPPORT	1
23	48030	Fuel Line 2	1
24	11657	Clamp 8/14	1
25	48004	Quick Fitting Assy 7.89, B13	1
26	48319	Quick Fitting Assy 7.89, B13	1
27	48583	Fuel Return Line	2
28	48123	Chain	1
29	48349	Spring	1
30	48584	TEE-JUNCTION	1



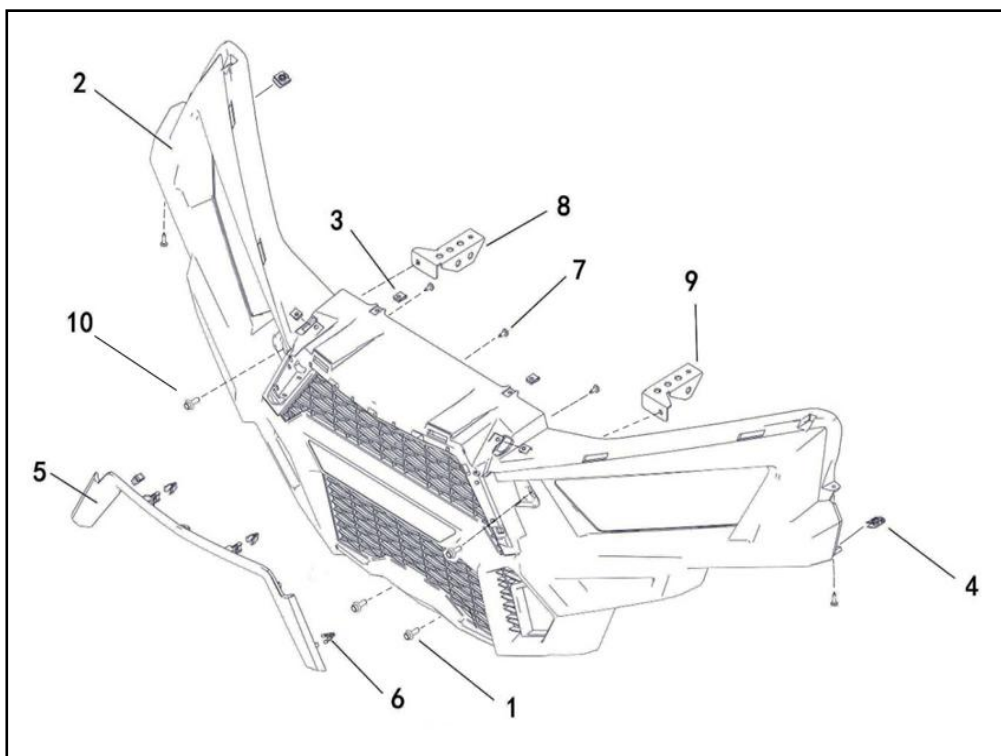
Ref. No.	Part No.	Description	Qty.
1	48126	Integral Seat Assembly	1
2	48125	Pin, Fix	2
3	11021	Washer Spring 10	2
4	48129	Side Backrest	2
5	10783	Bolt M8×20	8
6	48564	Middle Backrest	1
7	48128	Head Rest	2
8	10783	Bolt M8×20	4
9	11145	Nut M8	4
10	48085	Bolt	1
11	11233	Nut M6	1
12	11330	Washer 10	4
13	48565	Rubber Damper (φ20×4)	2
14	48566	Rubber lock	1
15	10140B	Bolt M6×12	1
16	46222	Rubber Set, Seat	2



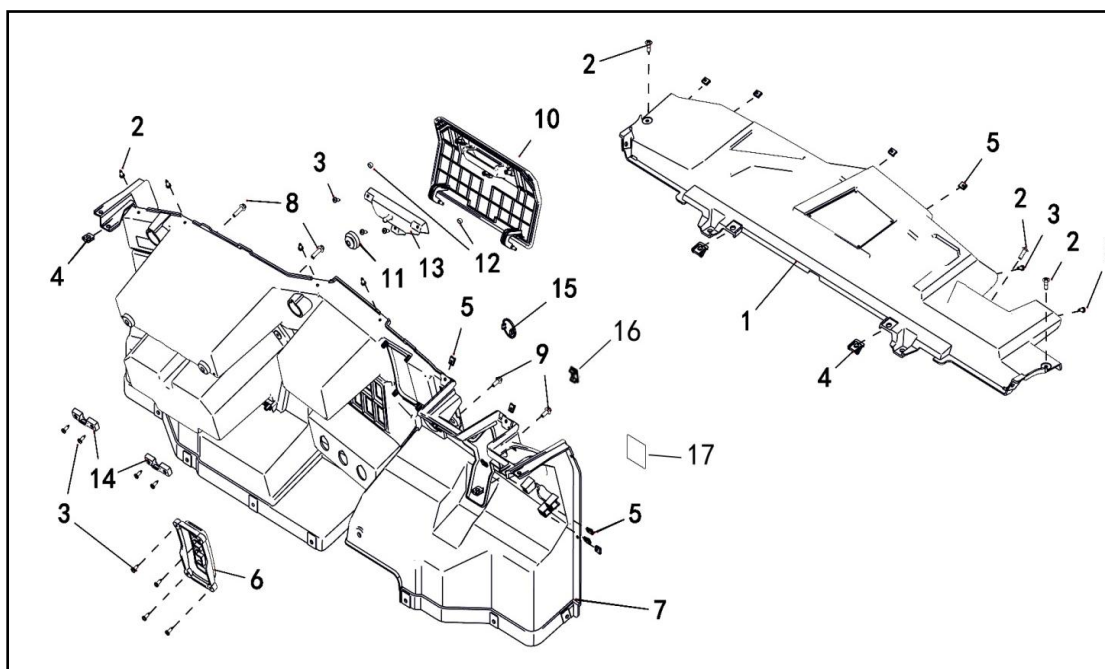
Ref. No.	Part No.	Description	Qty.
1	48055	Frame	1
3	10140B	Bolt M6×12	4
4	73882	Cushion Support Component	1
5	73883	Bracket, Rectifier Regulator	4
6	11030	Bolt M8×35	2
7	11145	Nut M8	4
8	10783	Bolt M8×20	2
9	48086	Bracket, Radiator	1
10	11236	Bolt M8×16	2
11	48766	Heat Protection Plate, Brake Caliper	1
12	11233	Nut M6	2
15	48056	Bracket, Rear Axle	1
16	11272	Bolt M10×1.25×110	4
17	11287	Nut M10	13
18	11036	Bolt M10×1.25×20	8
19	48767	Bracket, Rear Axle, Upper	1
21	48057	Bracket, Front Axle	1
22	11816	Bolt M10×1.25×90	1
23	11854	Bolt M10×1.25×30	2



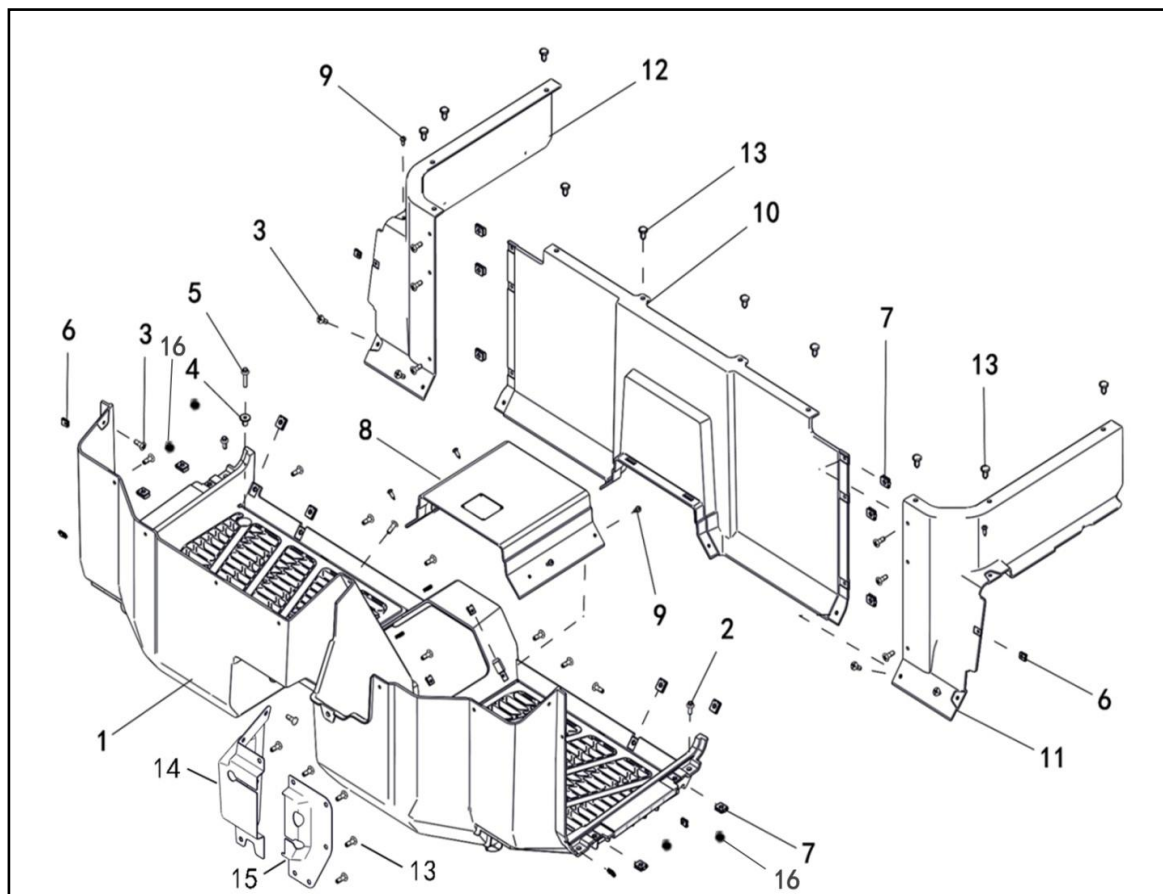
Ref. No.	Part No.	Description	Qty.
1	48204	Removable hood	1
2	482056g	Fixed hood	1
3	48316	Tapping screw M5×16	33
4	48270	Screw M6×20	10
5	48206	Battery box	1
6	10239	Bolt M6×16	4
7	10783	Bolt M8×20	2
8	48314	Spring nut M5	12
9	70960	Spring nut M6	4
10	482076g	Fender front, LH	1
11	482086g	Fender front, RH	1
12	482116g	LH lower front mudguards,	1
13	482126g	RH lower front mudguards	1
14	48209	LH upper front mudguards	1
15	48210	RH upper front mudguards	1
16	71959	Front reflector, yellow	2



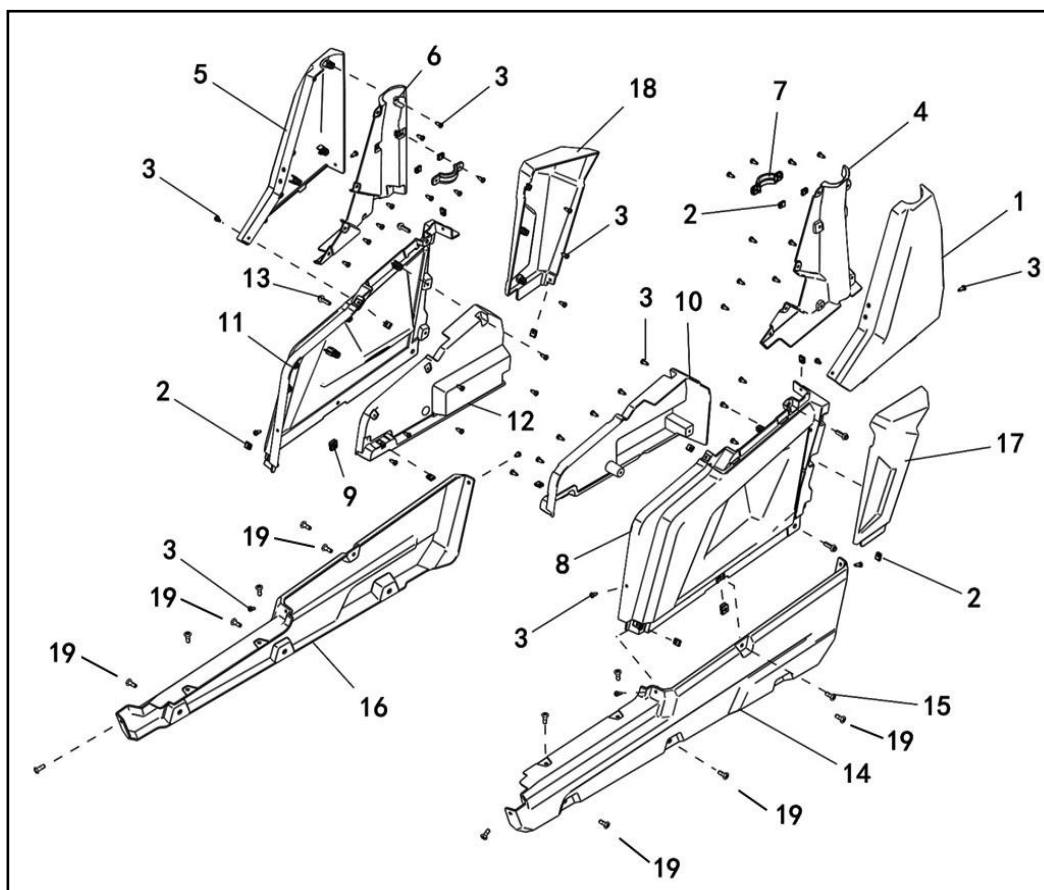
Ref. No.	Part No.	Description	Qty.
1	10783	Bolt M8×20	2
2	48740	Radiator grille	1
3	48314	Spring nut M5	4
4	70960	Spring nut M6	2
5	487416G	Cover, radiator grille	1
6	48742	Plastic fastener	4
7	48316	Tapping screw M5×16	11
8	48743	Upper bracket, front cover, R	1
9	48744	Upper bracket, front cover, L	1
10	10140B	Bolt M6×12	2



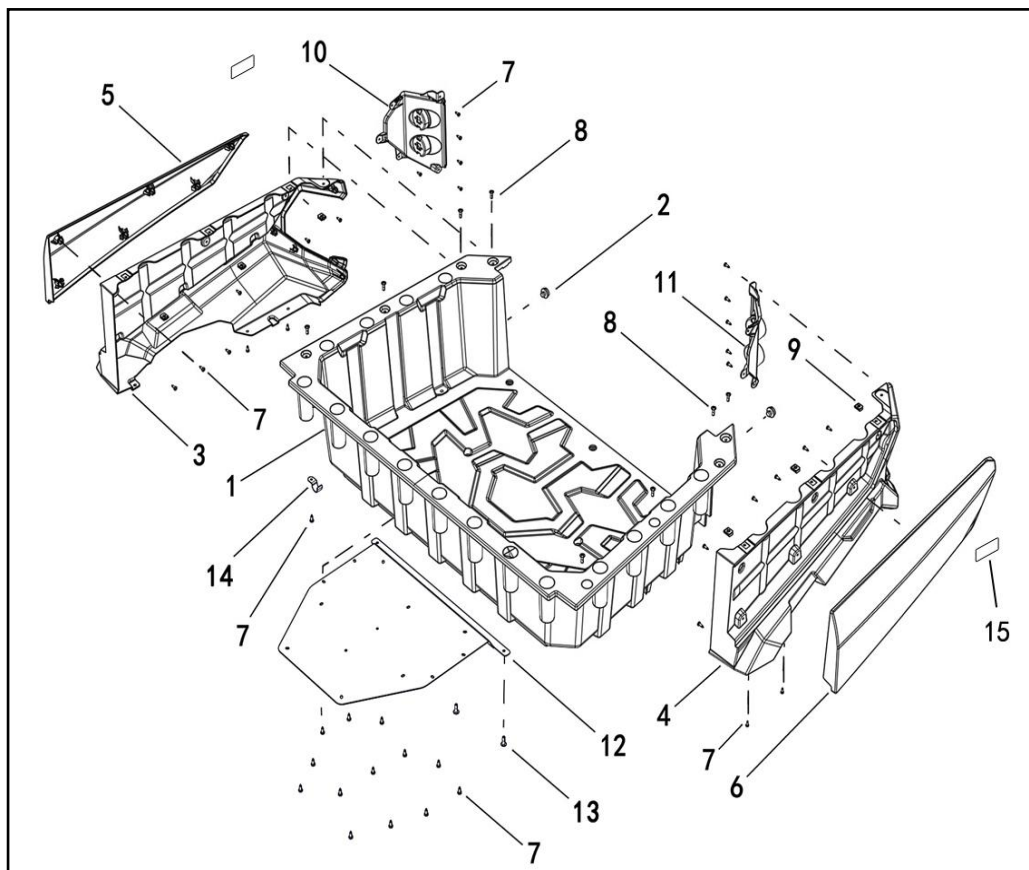
Ref. No.	Part No.	Description	Qty.
1	48213	Upper panel, instrument	1
2	48270	Screw M6×20	15
3	48316	Tapping screw M5×16	13
4	70960	Spring nut M6	7
5	48314	Spring nut M5	10
6	48446	Cover, shift lever	1
7	48769	Panel, instrument	1
8	48268	Bolt M6×25	2
9	48269	Bolt M6×16	2
10	48217	Lid, glovebox	1
11	48218	Grommet rubber, mount	1
12	48219	Cushion rubber	2
13	48220	Fixed support, glovebox lid	1
14	48221	Retainer, glovebox lid	2
15	48264	Cap, USB	1
16	73048	Cap, electrical switch	5
17	48289	Cover, 2WD/4WD switch	1



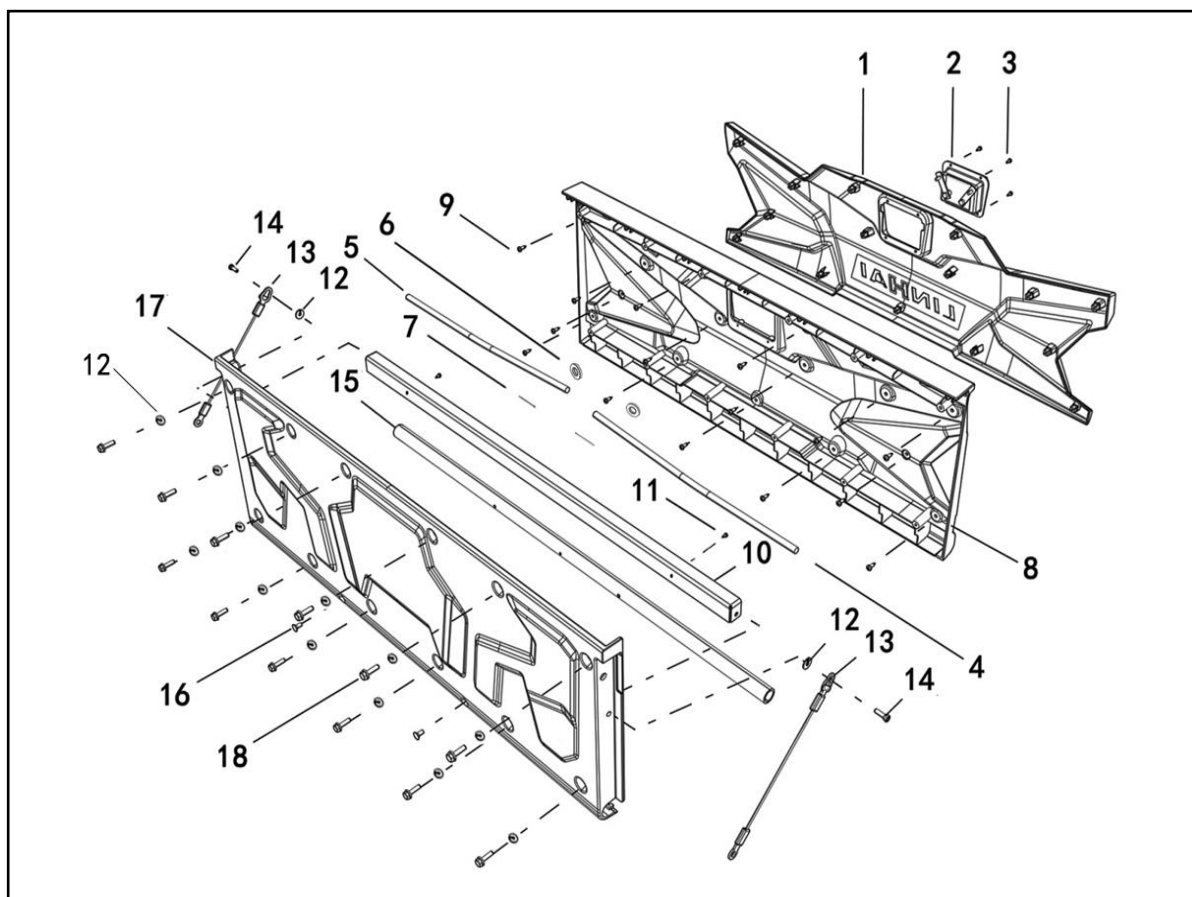
Ref. No.	Part No.	Description	Qty.
1	47629	Lower floor	1
2	48269	Hexagon flange bolt M6×16	4
3	48270	Screw M6×20	20
4	73884	T-shaped liner bushing	8
5	11241	Hexagon flange bolt M6×30	8
6	48314	Spring nut M5	10
7	70960	Spring nut M6	14
8	48226	Lower floor cover, footrest	1
9	48316	Tapping screw M5×16	6
10	48227	Seat, front cover plate	1
11	48228	Seat, cover plate, L	1
12	48229	Seat, cover plate, R	1
13	48252	Plastic screw	21
14	48378	Cover, brake pedal	1
15	48379	Cover, accelerate pedal	1
16	22349	Rubber	4



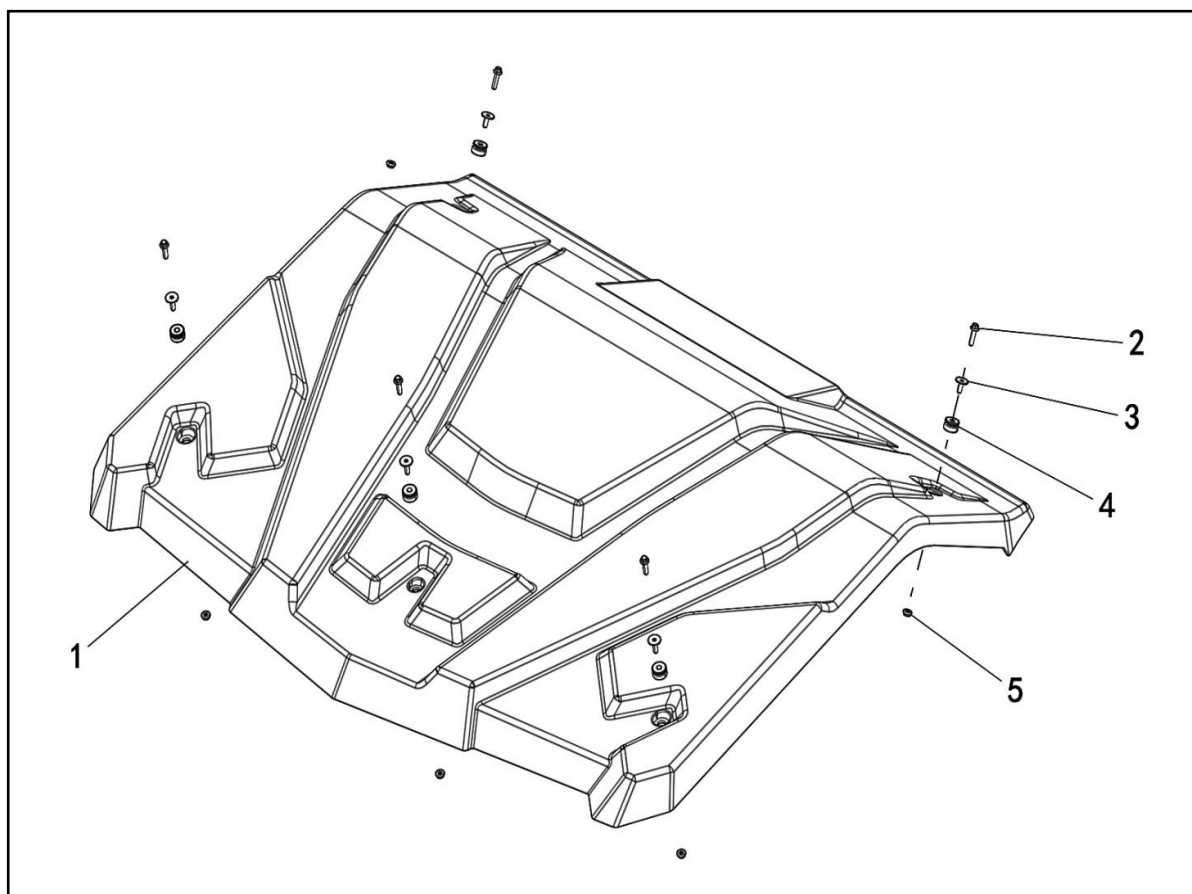
Ref. No.	Part No.	Description	Qty.
1	482306g	LH upper panel	1
2	48314	Spring nut M5	14
3	48316	Tapping screw M5×16	46
4	48249	LH upper panel, liner panel	1
5	482316g	RH upper panel	1
6	48250	RH upper panel, liner panel	1
7	48222	Side panel mounting button	2
8	482326g	LH lower panel	1
9	70960	Spring nut M6	2
10	48223	LH lower panel, liner panel	1
11	485526G	RH lower panel,	1
12	48224	RH lower panel, liner panel	1
13	48268	Hexagon flange bolt M6×25	4
14	48234	LH side fender	1
15	48270	Screw M6×20	8
16	48235	RH side fender	1
17	48236	LH panel decorative sheet	1
18	48237	RH panel decorative sheet	1
19	73054	Screw M6×16	6



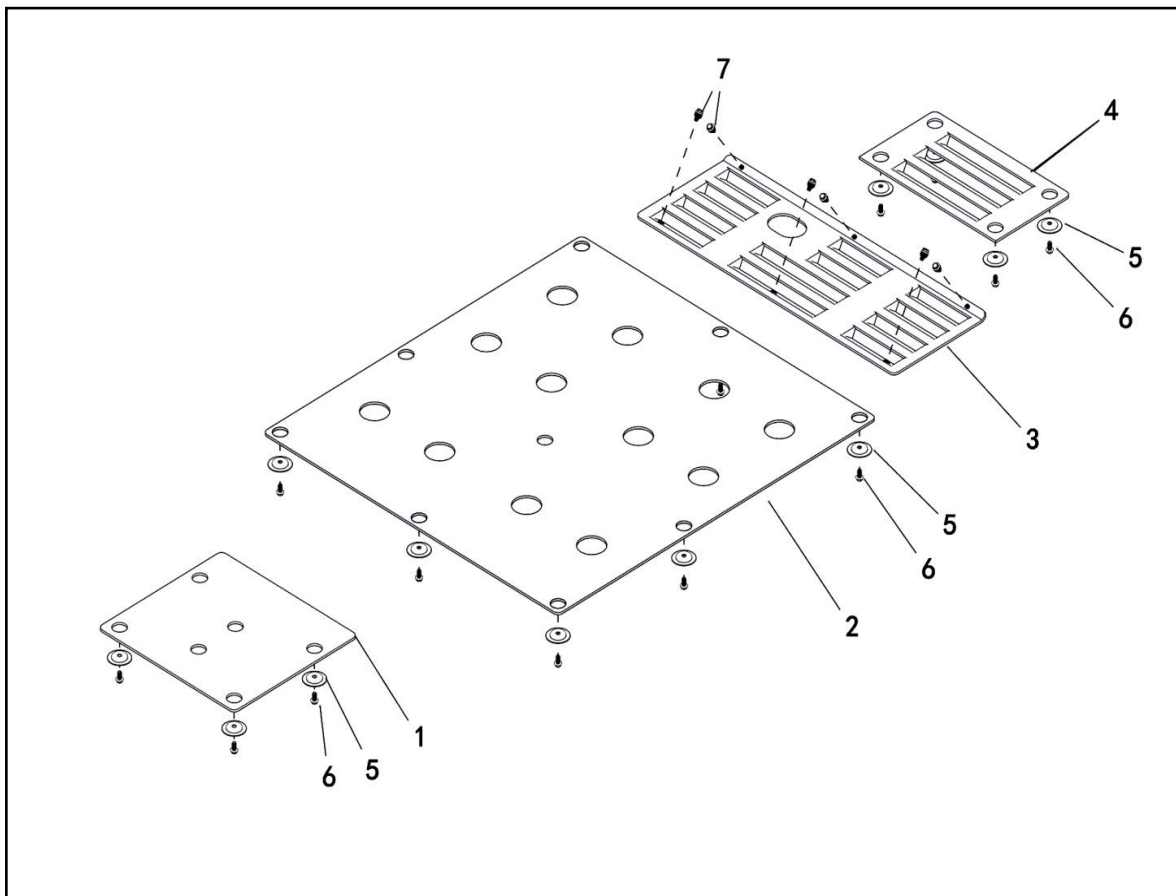
Ref. No.	Part No.	Description	Qty.
1	48242	Box floor cover	1
2	48145	Box rear panel rubber stopper	2
3	48241	Box cover, R	1
4	48240	Box cover, L	1
5	482396g	Box cover, R cover cap	1
6	482386g	Box cover, L cover cap	1
7	48316	Tapping screw M5×16	39
8	48270	Screw M6×20	8
9	70960	Spring nut M6	6
10	48244	Rear light cover, R	1
11	48243	Rear light cover, L	1
12	48146	Box thermal baffle	1
13	10239	Hexagon flange bolt M6×16	2
14	48191	Buckle	1
15	71960	Rear reflector, red	2



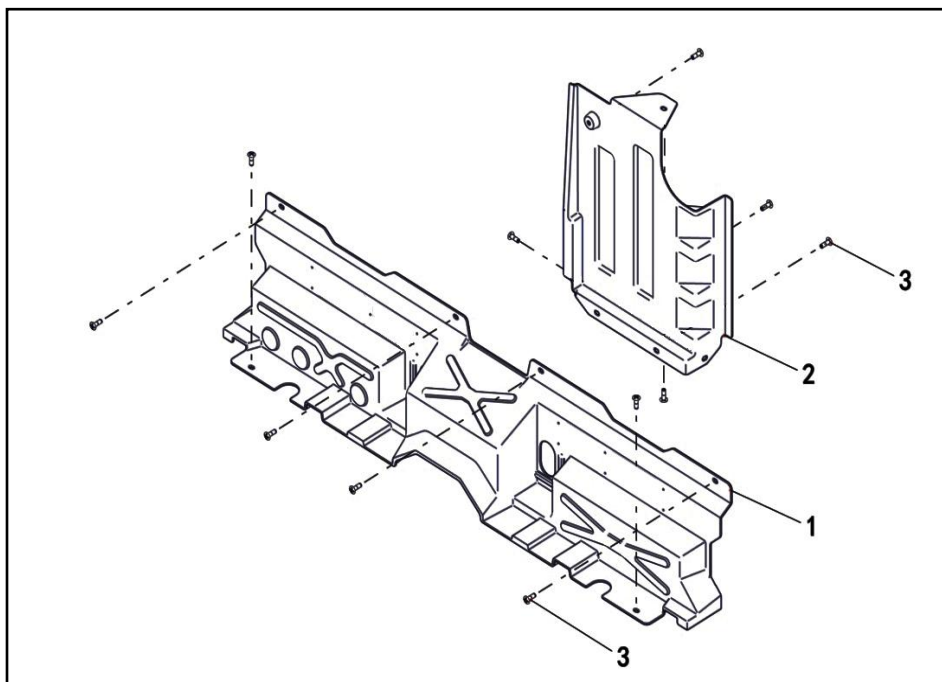
Ref. No.	Part No.	Description	Qty.
1	483349B	Box rear panel cover cap	1
2	48137	Box rear panel handle	1
3	11242	Tapping screw ST4.2x13	4
4	48140	Box rear panel lock pin, L	1
5	48141	Box rear panel lock pin, R	1
6	48150	Handle adjust washer	2
7	48149	Handle cotter pin	2
8	48246	Box rear panel	1
9	48316	Tapping screw M5x16	15
10	48138	Box rear panel mounting plate	1
11	11242	Tapping screw ST4.2x13	2
12	11019	Spring lock washer	6
13	48148	Upper retainer cable	2
14	48147	Inner hexagonal flat head step bolt M6x20	2
15	48144	Box rear panel axis	1
16	11151	Cross recessed countersunk head screw M6x12	2
17	48245	Box inner panel	1
18	11307	Bolt M6x25	12



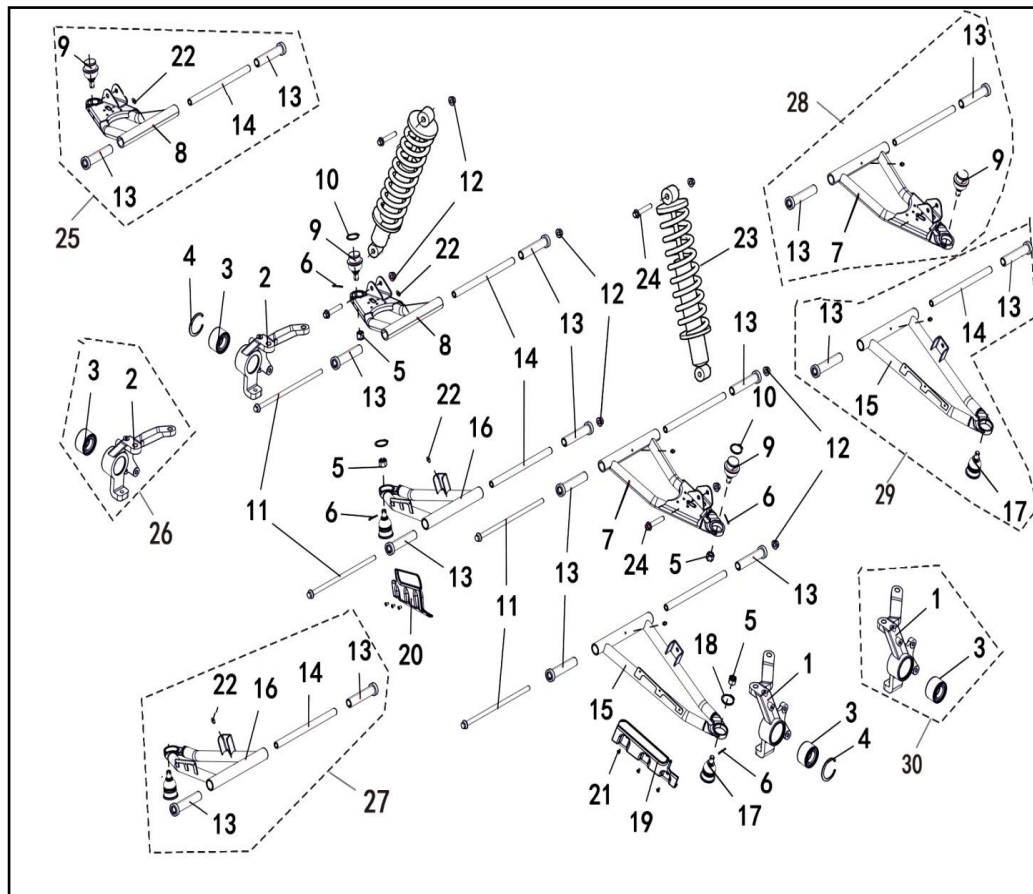
Ref. No.	Part No.	Description	Qty.
1	48248	Roof panel	1
2	48268	Hexagon flange bolt M6×25	5
3	48256	T-shaped liner bushing	5
4	48257	I-shaped rubber damper	5
5	11233	Nut M6	5



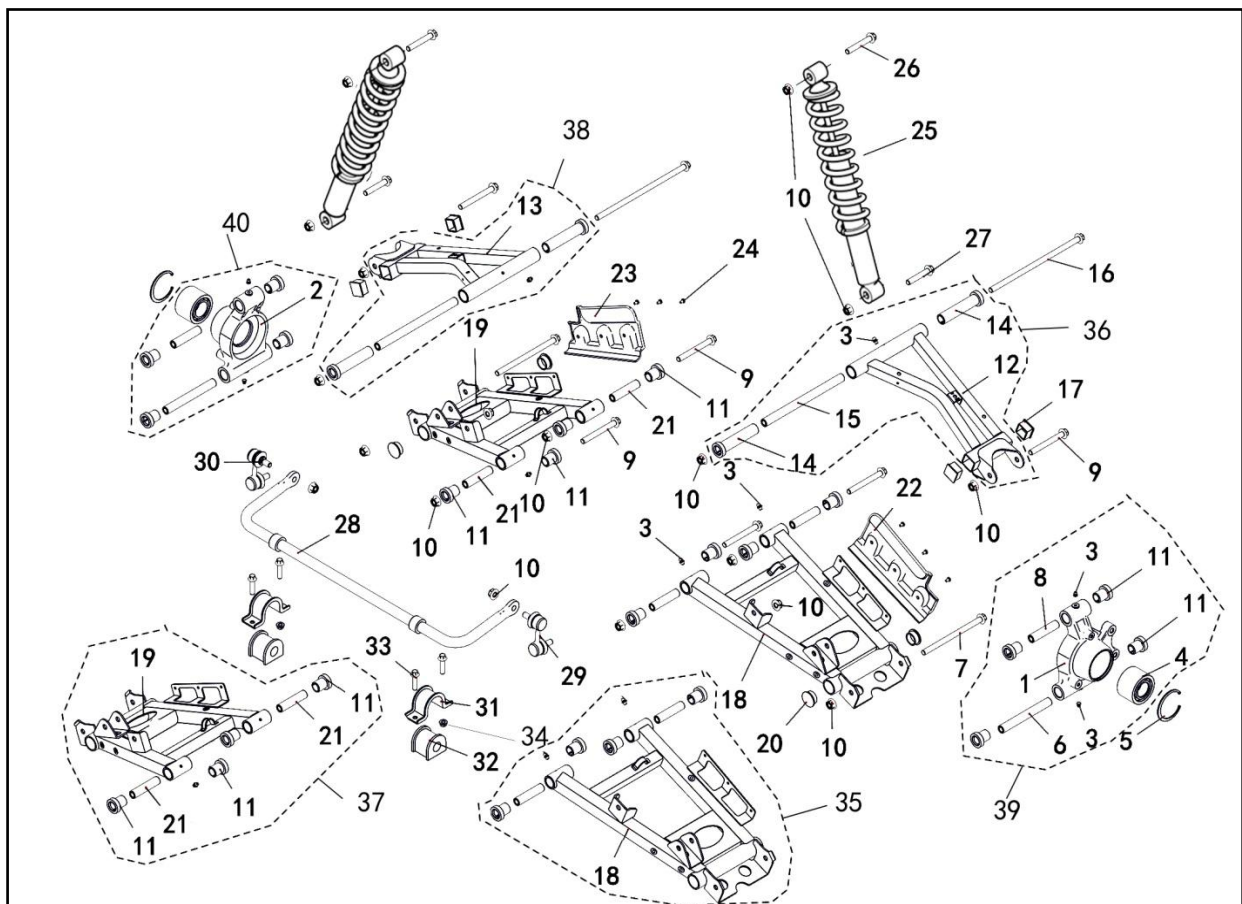
Ref. No.	Part No.	Description	Qty.
1	48277	Plate, front	1
2	48278	Plate, middle	1
3	48280	Plate, postmedian	1
4	48279	Plate, rear	1
5	20331	Washer	17
6	11495	Bolt M6×16	17
7	10140B	Bolt M6×12	6



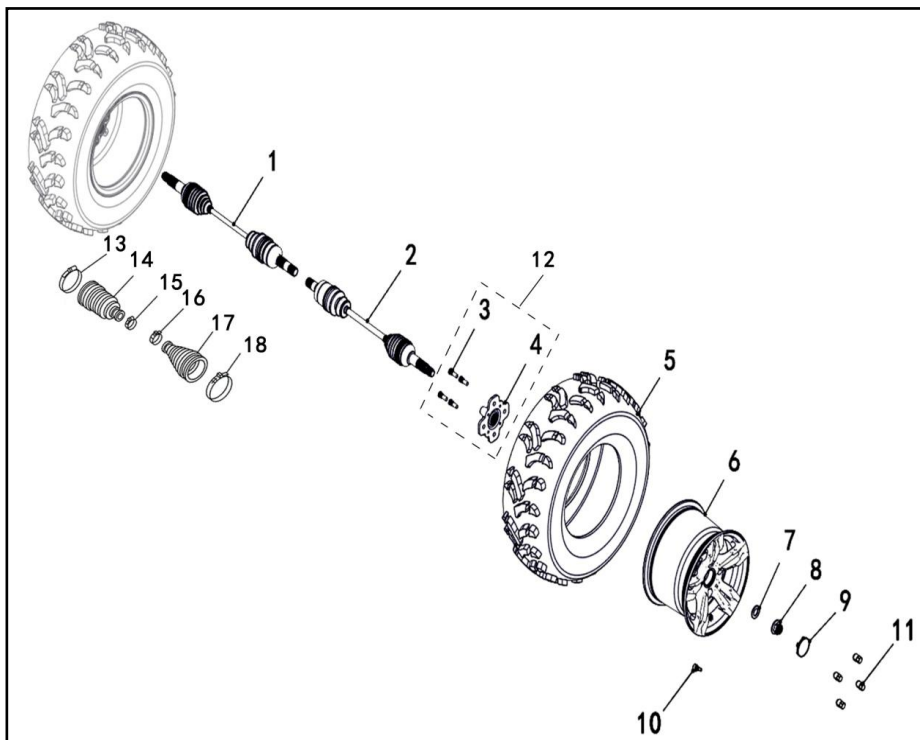
Ref. No.	Part No.	Description	Qty.
1	48254	Heat protection plate, seat	1
2	48263	Plate, fuel tank	1
3	48270	Bolt M6×20	11



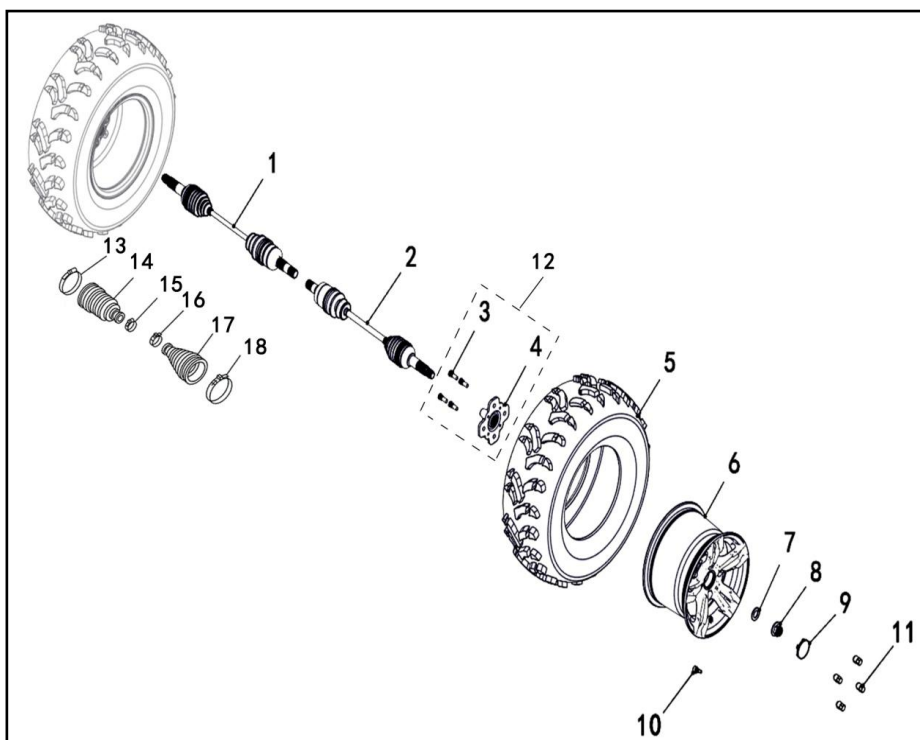
Ref. No.	Part No.	Description	Qty.
1	48091	Carrier bearing, front, LH	1
2	48094	Carrier bearing, front, RH	1
3	48092	Bearing	2
4	11852	Circlip 55	2
5	70679	Nut M12×1.25	4
6	10993	Pin 3.2×22	4
7	48109	Arm upper frt, LH	1
8	48110	Arm upper frt, RH	1
9	48090	Ball joint, upper	2
10	11383	Circlip 32	2
11	48107	Scr hxfl, frt arm	4
12	11287	Nut M10	8
13	48106	Bushing, long	8
14	48105	Shaft pivot	4
15	48108	Arm lwr frt, LH	1
16	48111	Arm lwr frt, RH	1
17	48089	Ball joint, lwr	2
18	70046	Circlip 34	2
19	84251	Cover, arm lwr frt, LH	1
20	84252	Cover, arm lwr frt, RH	1
21	11153	Screw M5×10	6
22	27074	Grease fitting M6	4
23	48093	Front shock absorber assy	2
24	11238	Bolt M10×1.25×57	4
25	48335	Arm upper frt, RH assy	1
26	48336	Carrier bearing wheel, RH assy	1
27	48337	Arm lwr frt, RH assy	1
28	48338	Arm upper frt, LH assy	1
29	48339	Arm lwr frt, LH assy	1
30	48340	Carrier bearing wheel, LH assy	1



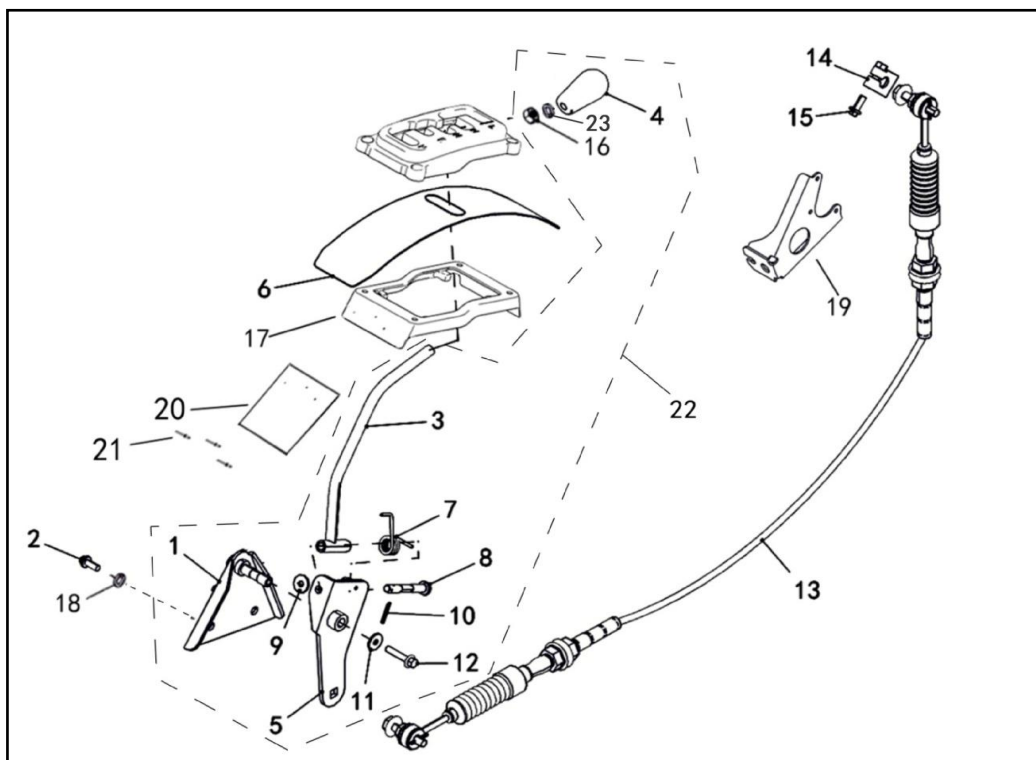
Ref. No.	Part No.	Description	Qty.
1	48164	Carrier bearing wheel, rear, LH	1
2	48165	Carrier bearing wheel, rear, RH	1
3	27074	Grease fitting M6	10
4	48077	Bearing	2
5	11155	Circlip 63	2
6	48161	Shaft pivot, lwr	2
7	48162	Scr hxfl, rear arm, lwr	2
8	48160	Shaft pivot, upper	2
9	11146	Bolt M10×1.25×90	6
10	10795	Nut M10	18
11	48070	Bushing, short	16
12	48074	Arm upper rear, LH	1
13	48075	Arm upper rear, RH	1
14	48106	Bushing, long	4
15	48068	Shaft, rear upper arm	2
16	48071	Scr hxfl, rear upper arm	2
17	70287	Square rubber plug	4
18	48072	Arm lwr rear, LH	1
19	48076	Arm lwr rear, RH	1
20	48073	Plug	4
21	48069	Shaft, rear lwr arm	4
22	84251	Cover, arm lwr rear, LH	1
23	84252	Cover, arm lwr rear, RH	1
24	11153	Screw M5×10	6
25	47804	Rear shock absorber assy	2
26	10120d	Bolt M10×1.25×62.5	2
27	11238	Bolt M10×1.25×57	2
28	48079	Stabilizer bar	1
29	48081	Ball pin, LH	1
30	48080	Ball pin, RH	1
31	27090	Bracket stabilizer	2
32	27091	Bushing stabilizer	2
33	10783	Bolt M8×20	4
34	11145	Nut M8	2
35	48341	Arm lwr rear, LH assy	1
36	48342	Arm upper rear, LH assy	1
37	48343	Arm lwr rear, RH assy	1
38	48344	Arm upper rear, RH assy	1
39	48345	Carrier bearing wheel, rear, LH assy	1
40	48346	Carrier bearing wheel, rear, RH assy	1



Ref. No.	Part No.	Description	Qty.
1	48355	Front right drive axle	1
2	48356	Front left drive axle	1
3	48155	Bolt M10×1.25	8
4	48156	Hub assy shrt	2
5	48357	Tire front	2
6	47050	Wheel sub-assy	2
7	48163	Washer 24	2
8	48157	Nut M24, wheel	2
9	36162	Cap, wheel sub-assy	2
10	20807a	Valve, rim (TR412)	2
11	48154	Nut M10×1.25, wheel	8
12	48347	Hub for steel wheel assy	2
13	48570	Clip 1	2
14	48571	Boot (Outside)	2
15	48572	Clip 2	2
16	48573	Clip 3	2
17	48574	Boot (inner side)	2
18	48575	Clip 4	2

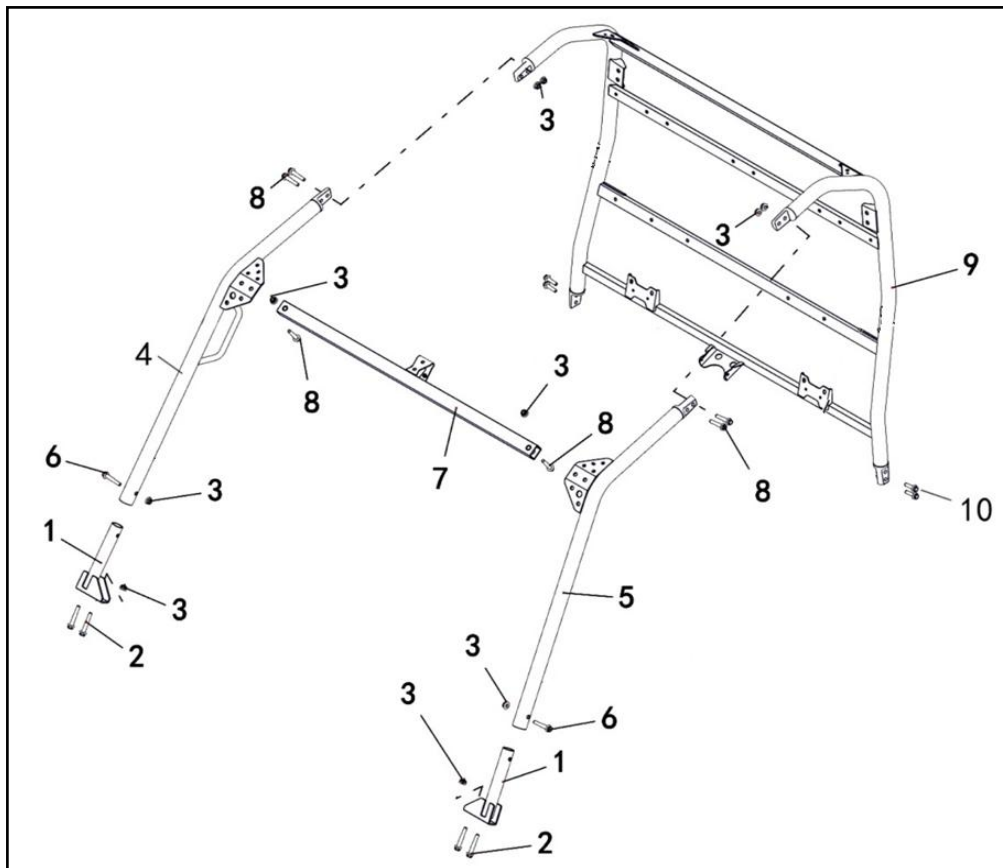


Ref. No.	Part No.	Description	Qty.
1	48167	Rear right drive axle	1
2	48166	Rear left drive axle	1
3	48155	Bolt M10×1.25	8
4	48156	Hub assy shrt	2
5	48358	Tire rear	2
6	47052	Wheel sub-assy	2
7	48163	Washer 24	2
8	48157	Nut M24, wheel	2
9	36162	Cap, wheel sub-assy	2
10	20807a	Valve, rim (TR412)	2
11	48154	Nut M10×1.25, wheel	8
12	48347	Hub for steel wheel assy	2
13	48570	Clip 1	2
14	48571	Boot (outside)	2
15	48572	Clip 2	2
16	48573	Clip 3	2
17	48574	Boot (inner side)	2
18	48575	Clip 4	2



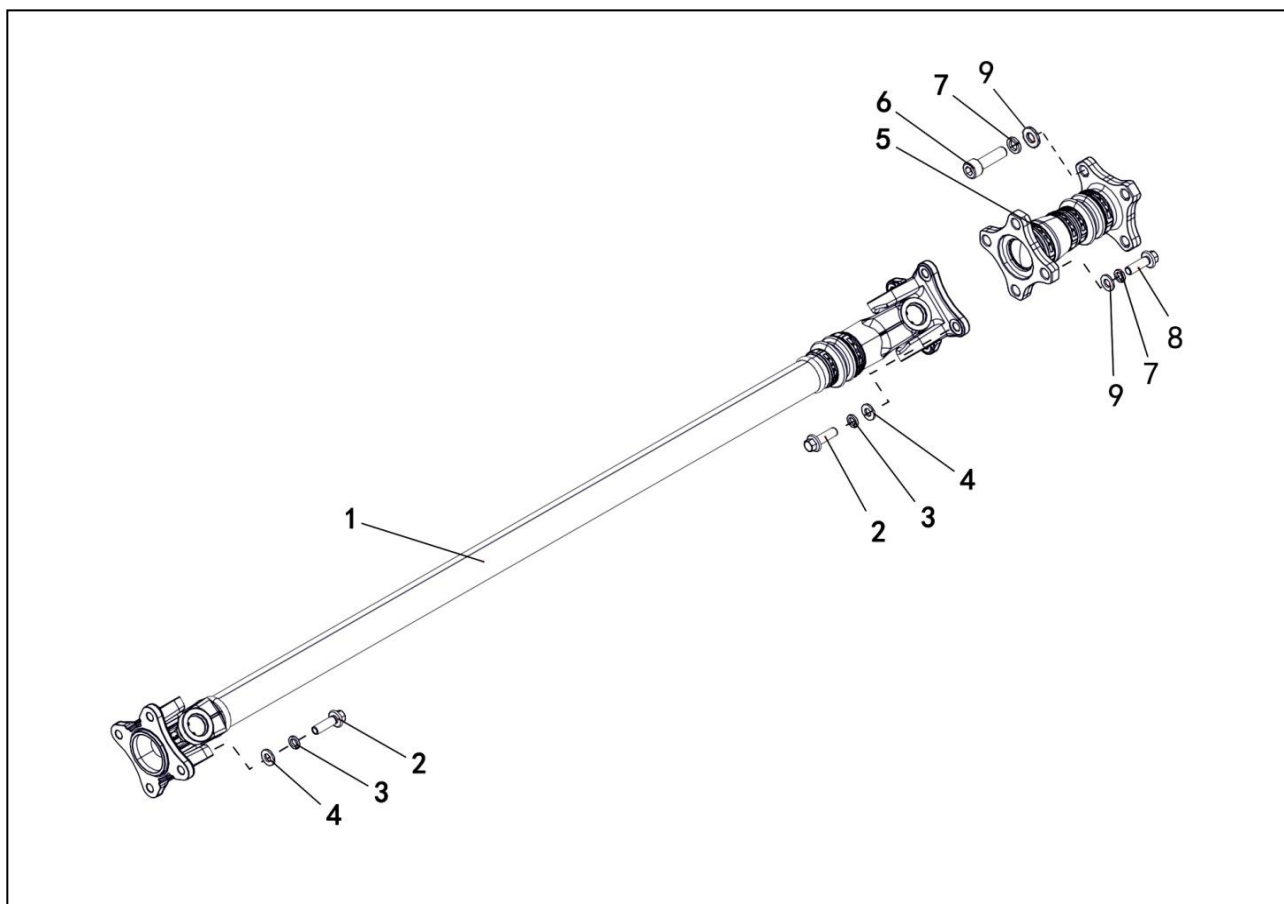
Ref. No.	Part No.	Description	Qty.
1	48442	Shift mounting plate assembly	1
2	10783	Bolt M6×25	2
3	73705	Shift board	1
4	48045	Knob shifter	1
5	73706	Front shift rocker arm	1
6	48599	Cover, dust	1
7	48047	Spring, shifting	1
8	48046	Pin, gear shifter	1
9	11390	Washer 8	1
10	10685	Cotter pin 2×16	1
11	11391	Spring retainer 6	1
12	10140B	Bolt M6×12	1
13	48443	Cable, shifter	1
14	48444	Rocker	1
15	11307	Bolt M6×25	1
16	11855	Nut M10	1
17	48601	Shift guard plate support plate	1
18	10106	Washer spring 8	2
19	48445	Bracket	1
20	48558	Cover	1
21	11856	Core pulling rivets 3.2×13	3
22	48672	Front shift gear assembly	1
23	10019	Washer 10	1

V11-Frame Roof

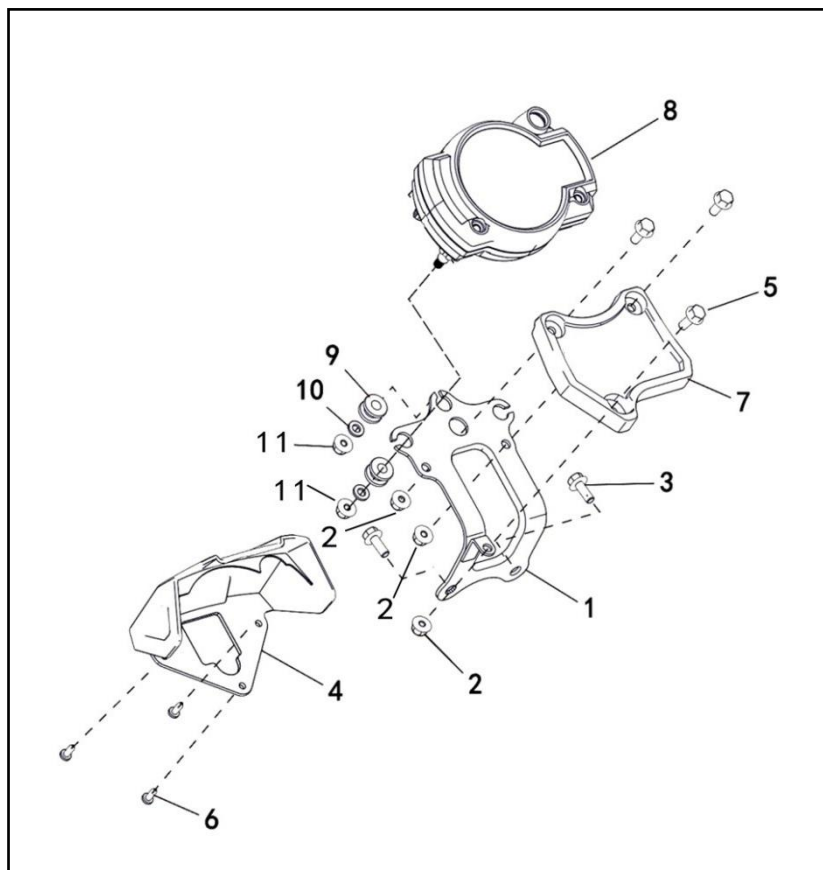


Ref. No.	Part No.	Description	Qty.
1	48329	Member, roof frame, front lower	2
2	11848	Bolt M10×1.25×62.5	4
3	11287	Nut M10×1.25	10
4	73918	Member, roof frame, front RH	1
5	73919	Member, roof frame, front LH	1
6	11846	Bolt M10×1.25×57	2
7	48332	Member, roof frame, front	1
8	11851	Bolt M10×1.25×50	6
9	48755	Member, roof frame, rear	1
10	11240	Bolt M10×1.25×35	4

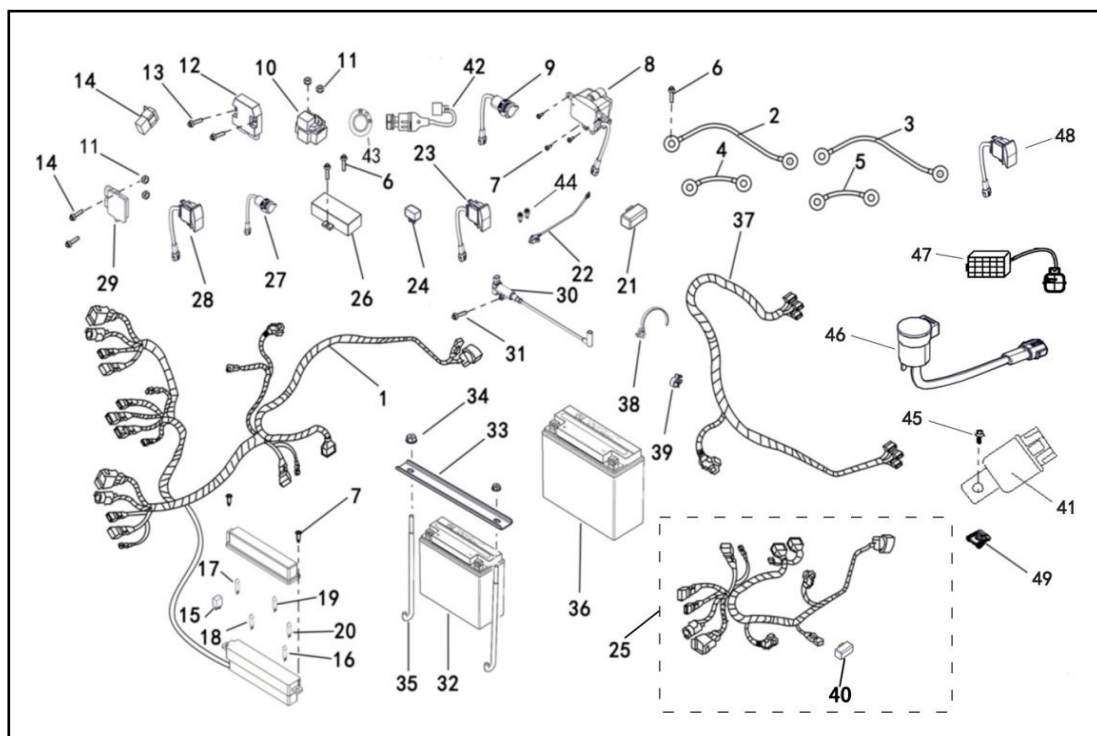
V16-Front and Rear Knuckle Assy



Ref. No.	Part No.	Description	Qty.
1	48281	Front prop shaft	1
2	11249	Bolt M8×1.0×25	8
3	10106	Washer spring 8	8
4	10068	Washer 8	8
5	48282	Rear prop shaft	1
6	11169	Bolt M10×1.25×32	4
7	11165	Washer spring 10	8
8	11257	Bolt M10×1.25×30	4
9	10089	Washer 10	8

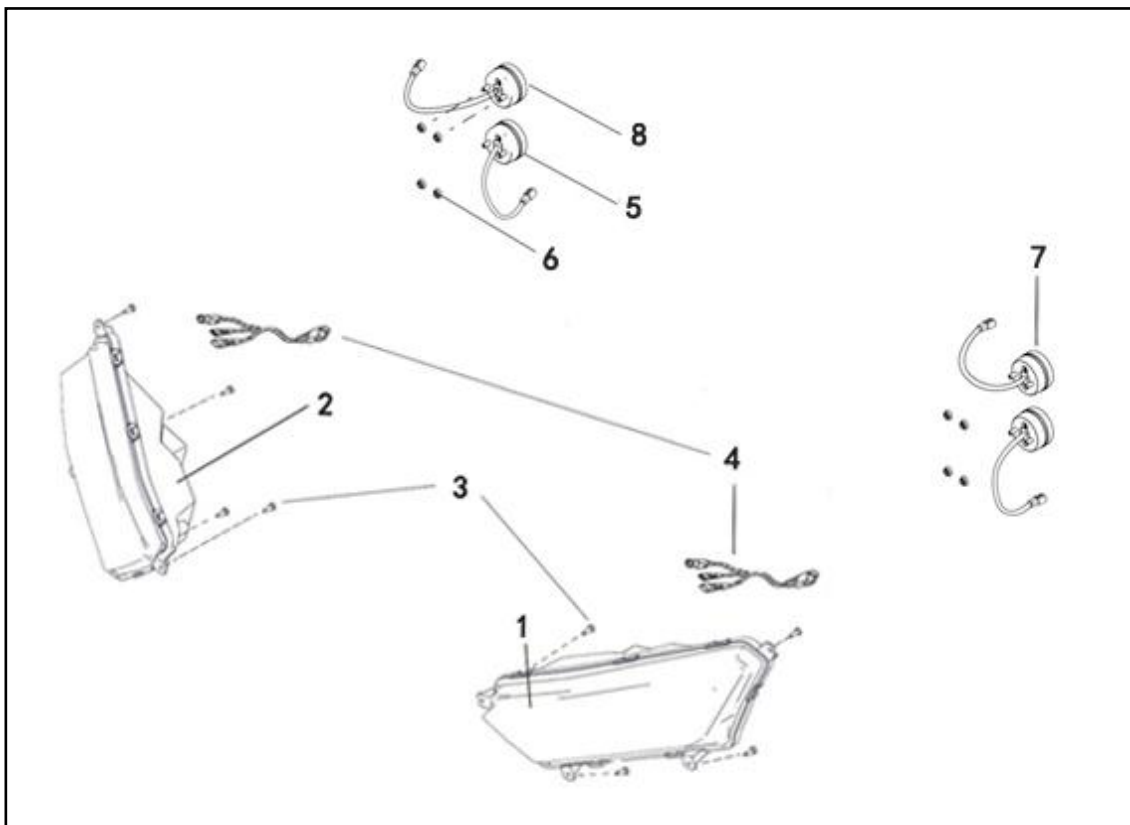


Ref. No.	Part No.	Description	Qty.
1	48058	Bracket, meter	1
2	11233	Nut M6	3
3	11495	Bolt M6×16	2
4	48214	Cover, meter	1
5	48269	Bolt M6×16, white	3
6	48316	Screw M5×16	3
7	48251	Cover, meter bracket	1
8	48308a	Lcd meter	1
9	48309	Rubber, meter	3
10	11792	Washer 6	3
11	11233	Nut M6	3

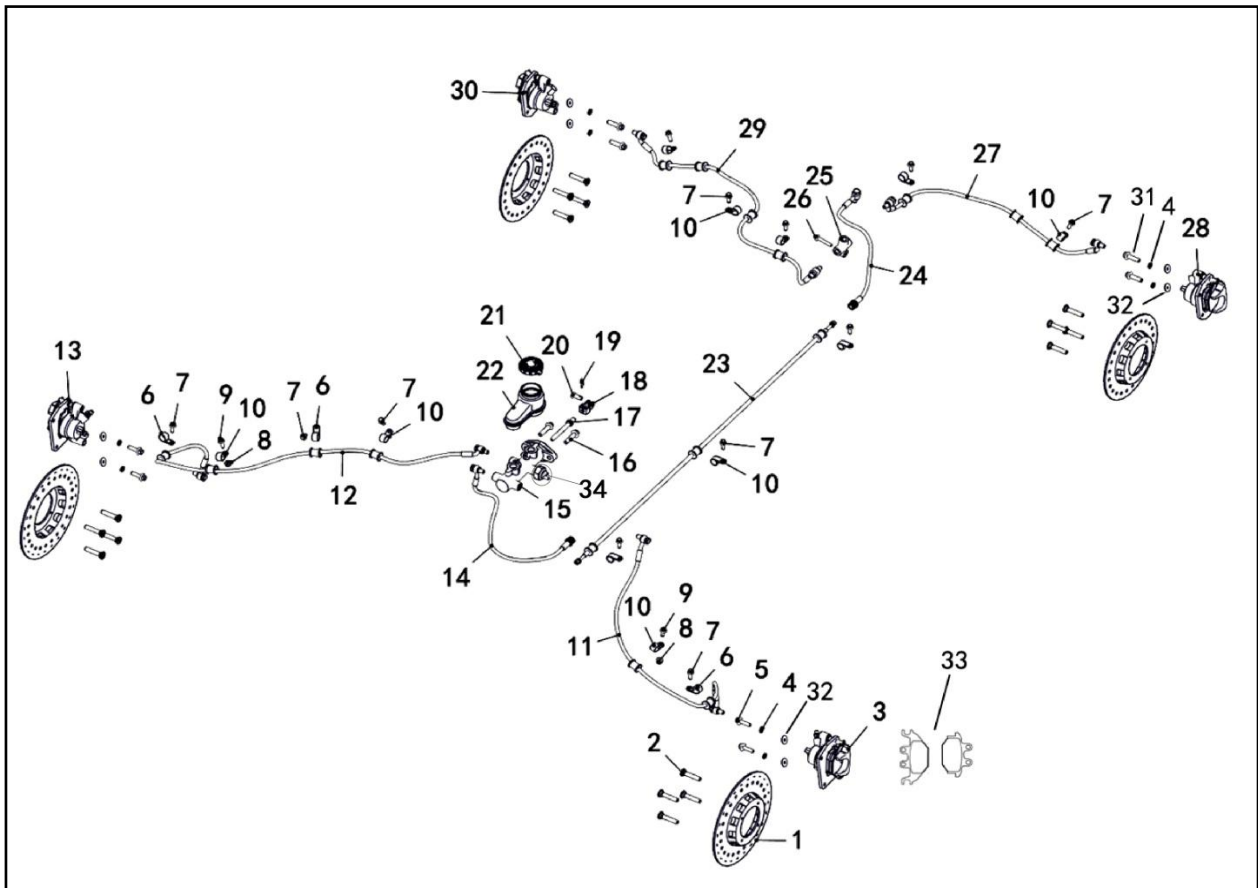


Ref. No.	Part No.	Description	Qty.
1	48299	Wiring harness	1
2	48301	Cable of starting motor	1
3	48302	Cable of battery negative	1
4	48303	Cable of battery positive	1
5	48304	Cable of frame	1
6	11495	Bolt M6×16	5
7	48316	Tapping screw M5×16	5
8	26434	2wd/4wd switch	1
9	48909	Accessory socket assy	1
10	71602	Starting relay	1
11	11233	Nut M6	4
12	71603	Rectifier regulator	1
13	11496	Bolt M6×30	4
14	35088	Reversing buzzer	1
15	35083	Auxiliary relay	7
16	48360	5 amp fuse	1
17	48361	10 amp fuse	1
18	48362	15 amp fuse	4
19	48363	20 amp fuse	1
20	84275	30 amp fuse	1
21	71474	Efi relay	1
22	48293	Parking switch	1
23	73436	High/low beam switch	1
24	26272	Protector	2
25	48711	Wiring harness for EFI	1

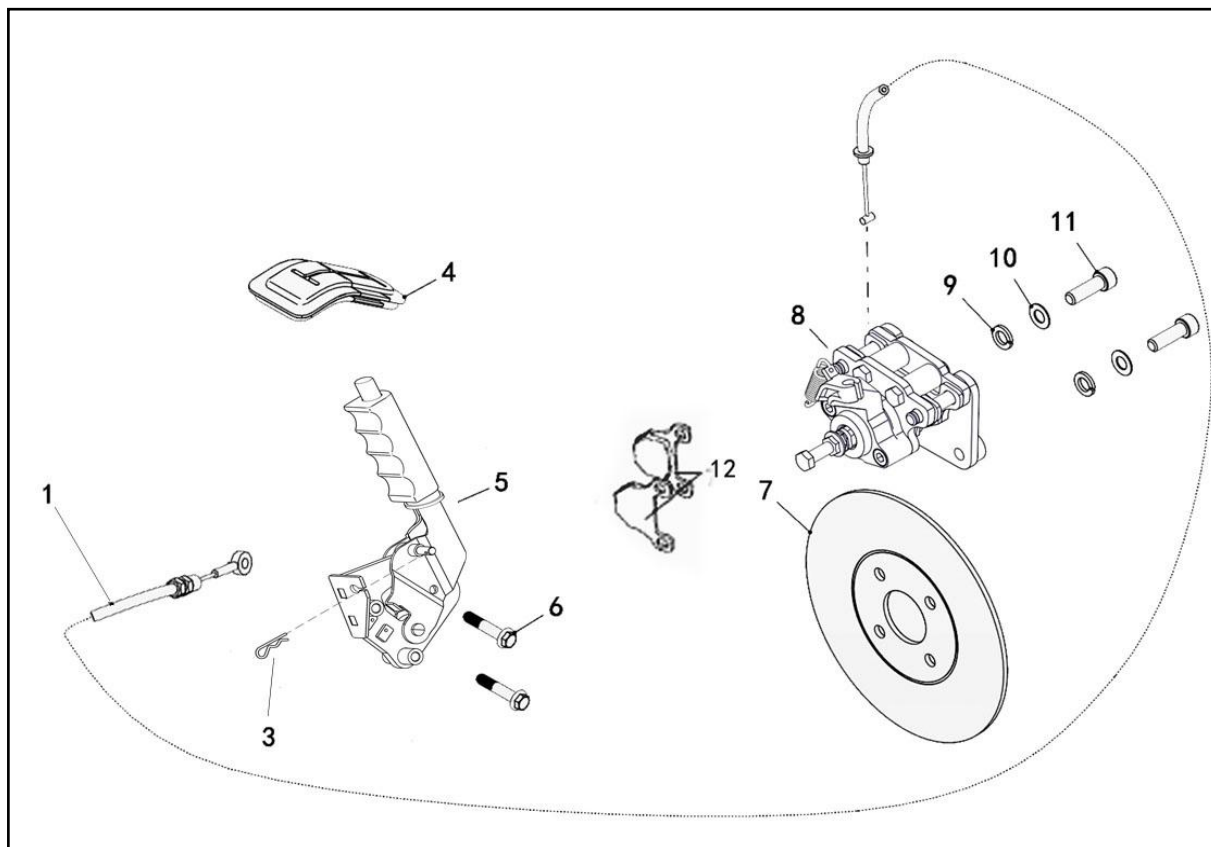
26	48305	Solenoid valve controller	1
27	36120	Accessory socket assy for USB	1
28	73306	Rear diff switch	1
29	85105	ECU	1
30	70822D	Ignition coil	1
31	11260	Bolt M6×40	1
32	48907	Battery (20ah)	1
33	48327	Plate for battery	1
34	10882	Nut M8	2
35	48067	Fastening rod of battery	2
36	48908	Battery (30ah, eps)	1
37	48311	Taillight transition line	1
38	48294	Tie	14
39	48191	Buckle	9
40	50280	Starting relay	1
41	35656	Relay	1
42	48295	Lock	1
43	48551	Lock decal	1
44	11654	Screw M3×16	2
45	10140B	Bolt M6×12	1
46	73326	Flasher relay assy	1
47	73439	Wire, turning lights switch	1
48	47072	Turning lights switch	1
49	70960	Spring nut M6	1



Ref. No.	Part No.	Description	Qty.
1	47691	Headlight, L	1
2	47690	Headlight, R	1
3	48316	Tapping screw M5×16	8
4	48745	Headlight transition line	2
5	48310	Tail light (American-standard) (match with plastic cargo box)	2
6	10797	Nut M5	8
7	48306	Turn indicate light, L, RR (match with plastic cargo box)	1
8	48307	Turn indicate light, R, RR (match with plastic cargo box)	1

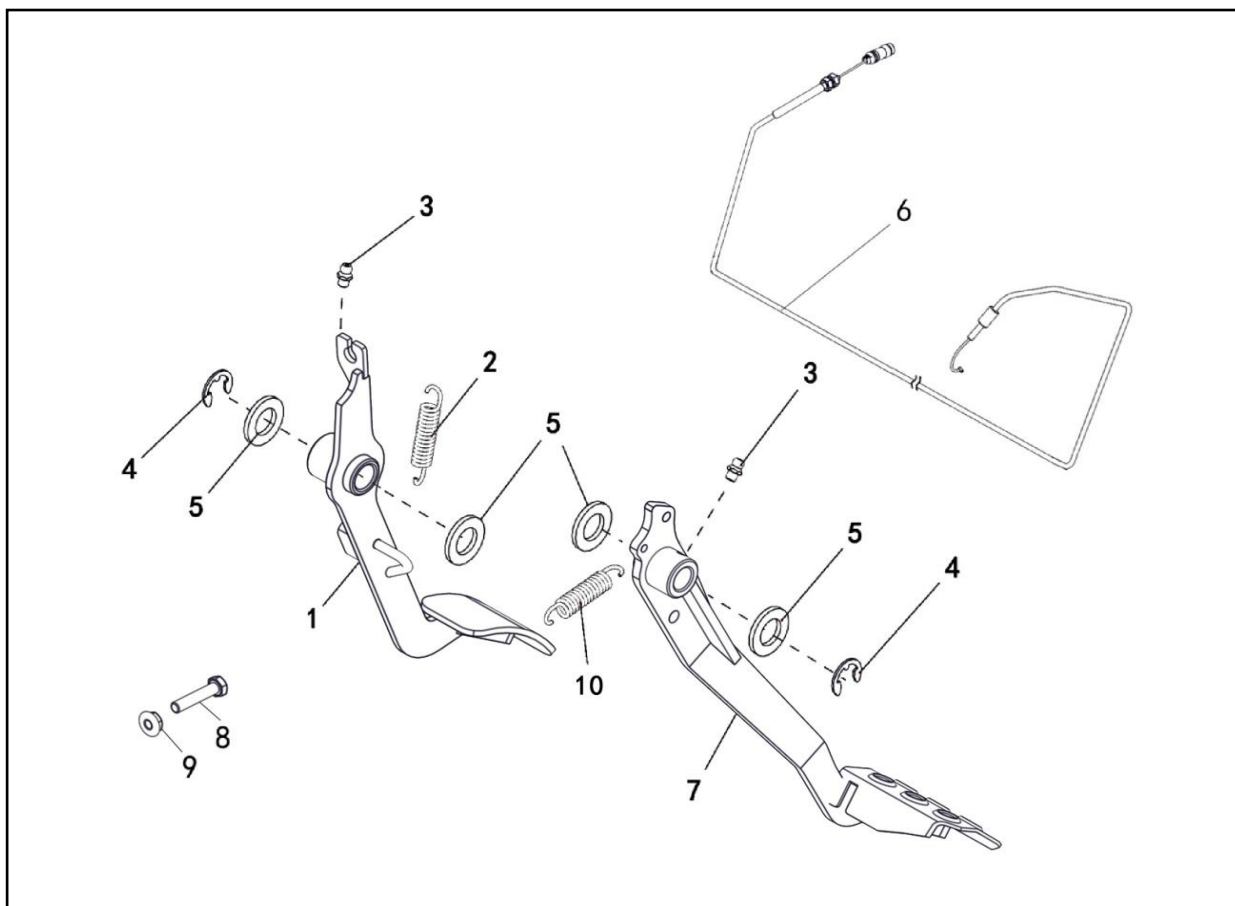


Ref. No.	Part No.	Description	Qty.
1	48770	Brake rotor, driver (YM)	4
2	48000	Bolt, brake rotor	16
3	48771	Brake caliper, left, front (YM)	1
4	10106	Spring 8	8
5	11466	Bolt M8×25(10.9)	4
6	48772	Clamp 1(YM)	3
7	11495	Bolt M6×16	12
8	11233	Nut M6	2
9	11459	Bolt M6×20	2
10	48773	Clamp 2(YM)	11
11	48774	Hose 1(YM)	1
12	48775	Hose 2(YM)	1
13	48776	Brake caliper, right, front (YM)	1
14	48777	Hose 3(YM)	1
15	48778	Master cylinder (YM)	1
16	10059	Bolt M8×25	2
17	48779	Push rod (YM)	1
18	48780	Clevis (YM)	1
19	10094	Cotter pin 2×20	1
20	48781	Clevis pin (YM)	1
21	48782	Brake reservoir, cover (YM)	1
22	48783	Brake reservoir (YM)	1
23	48784	Tube (YM)	1
24	48785	Hose 4(YM)	1
25	48786	Fitting, tee (YM)	1
26	11105	Bolt M6×35	1
27	48787	Hose 5(YM)	1
28	48788	Brake caliper, left, rear (YM)	1
29	48789	Hose 6(YM)	1
30	48790	Brake caliper, right, rear (YM)	1
31	10060	Bolt M8×28	4
32	10068	Washer 8	8
33	48791	Brake pads (YM)	4
34	48792	Sensor, brake (YM)	1

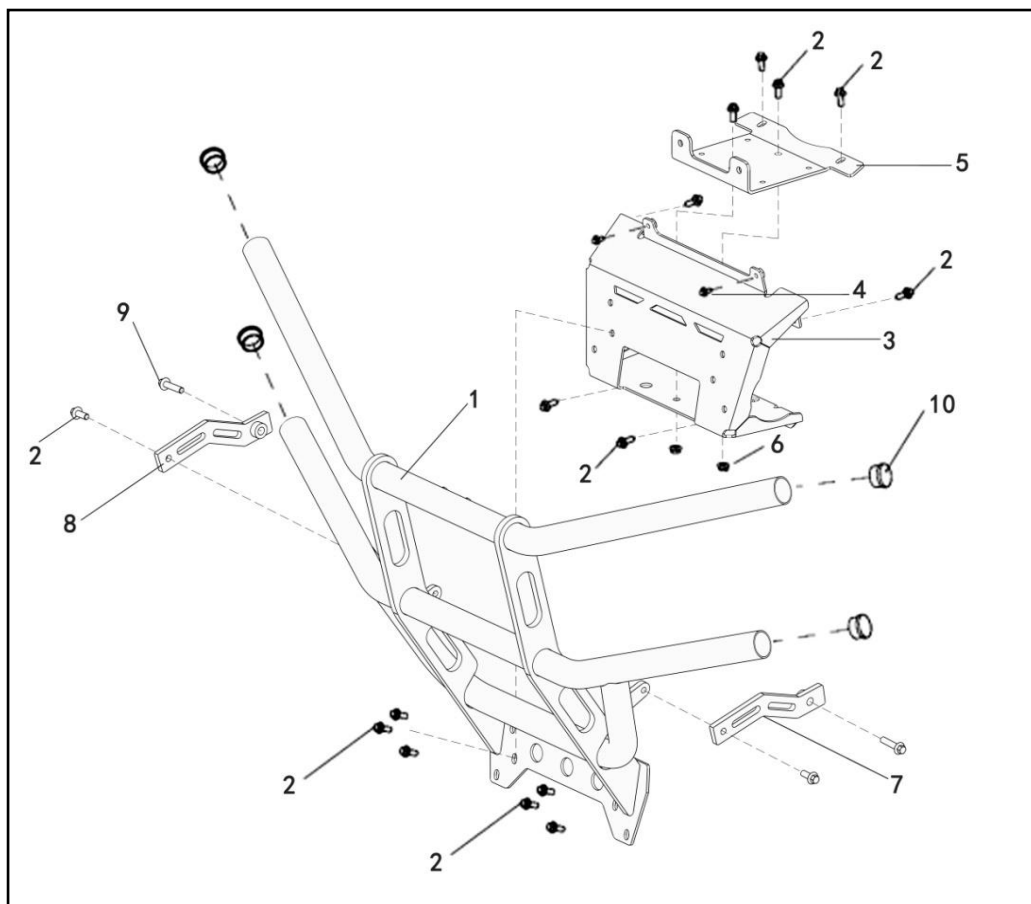


Ref. No.	Part No.	Description	Qty.
1	48197	Park brake cable	1
3	48172	Pin, R	1
4	48170	Rubber, park brake	1
5	48749	Park brake lever	1
6	12179	Bolt M8×38	2
6	11045	Bolt M8×40	2
7	48168	Park brake disc	1
8	48328	Brake (caliper)	1
9	10027	Spring washer 10	2
10	10089	Washer 10	2
11	11169	Bolt M10×1.25×32	2
12	26292	Parking pads (included in 4CZ-26220-00)	2

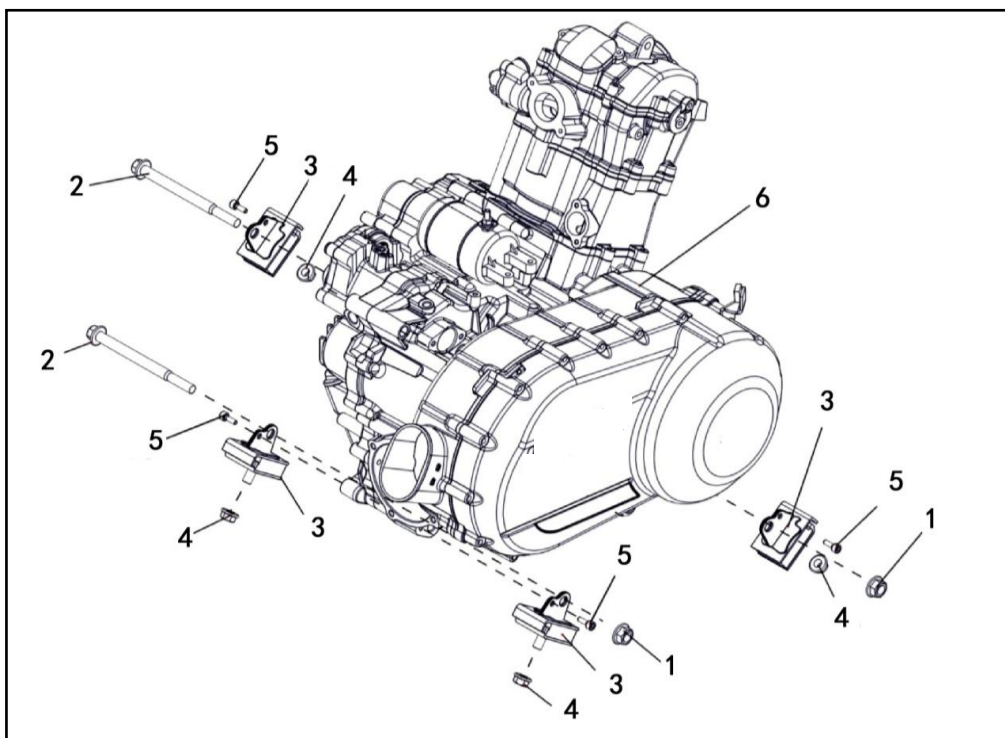
V21-Pedal Wire



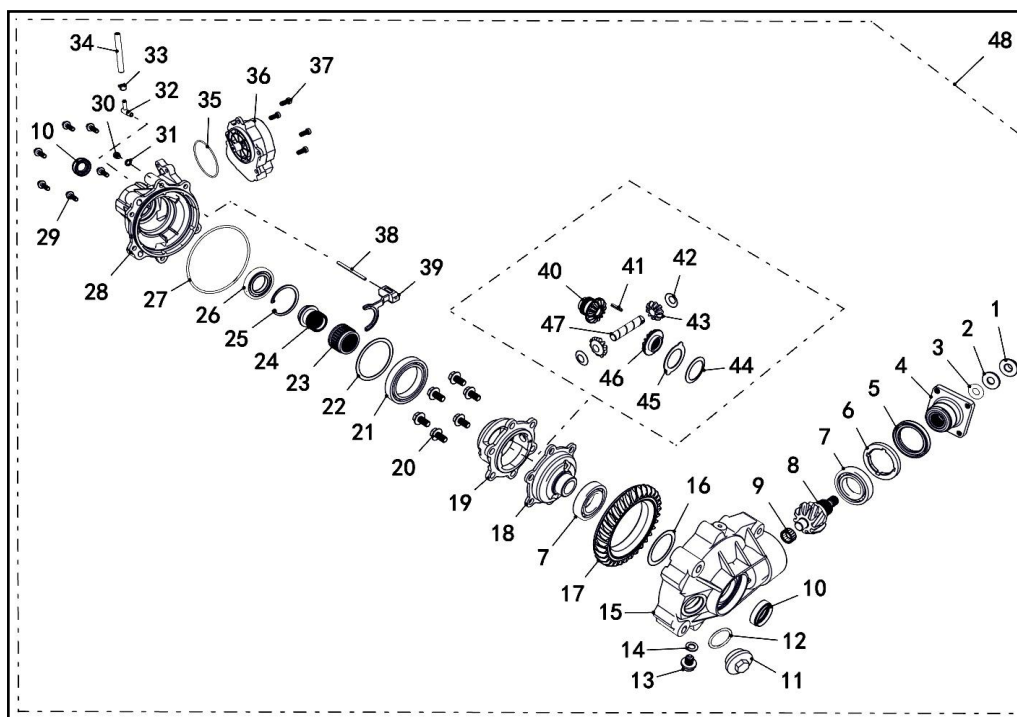
Ref. No.	Part No.	Description	Qty.
1	48199	Accelerate pedal assy	1
2	73204	Pedal spring, accelerate	1
3	27074	Grease fitting M6	2
4	10811	Lock washer 12 for shafts	2
5	11247	Washer 16	6
6	48196	Throttle cable	1
7	48198	Brake pedal assy	1
8	11248	Bolt M6×30	1
9	11192	Nut M6	1
10	47712	Pedal spring, brake	1



Ref. No.	Part No.	Description	Qty.
1	48759	Front bumper	1
2	10783	Bolt M8×20	18
3	48760	Bracket, front bumper	1
4	10140B	Bolt M6×12	2
5	48761	Lower bracket, tractor	1
6	10882	Nut M8	2
7	48762	Bracket, front bumper, L	1
8	48763	Bracket, front bumper, R	1
9	11030	Bolt M8×35	2
10	48737	Plug (38)	4

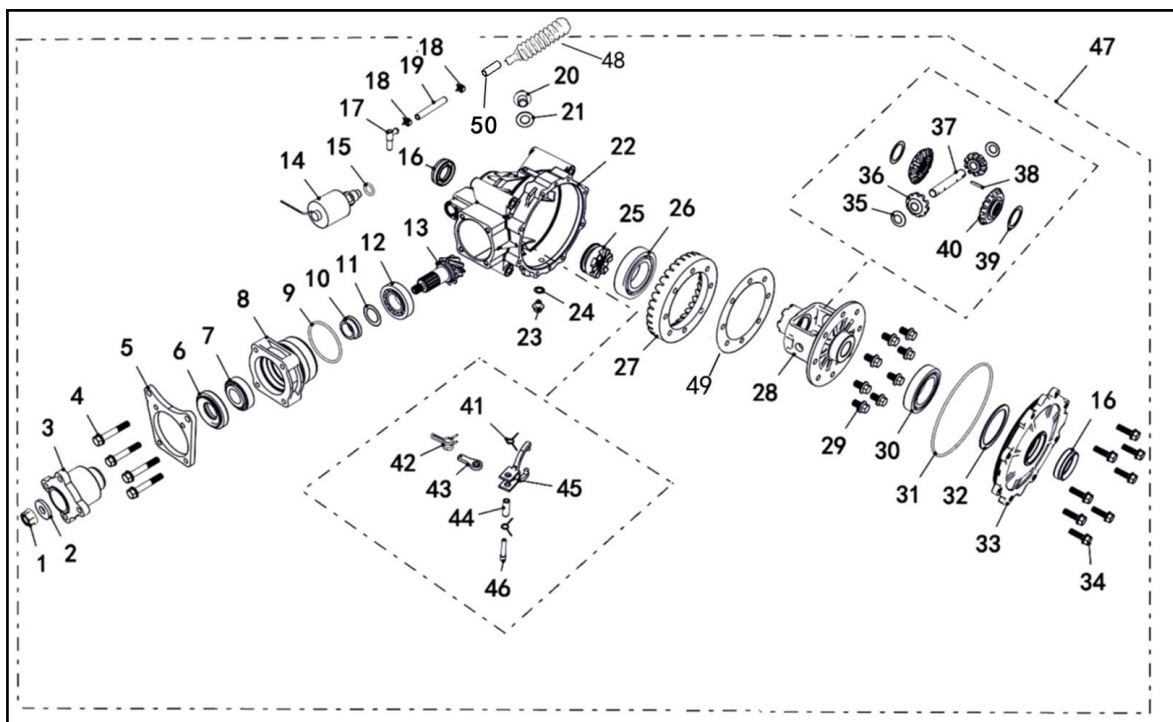


Ref. No.	Part No.	Description	Qty.
1	48059	Front engine mount bracket	1
2	35505	Rubber bushing	2
3	35506	Spacer 1	1
4	35507	Spacer 2	1
5	11250	Bolt M12×1.25×170	1
6	10031	Nut M12	2
7	10783	Bolt M8×20	2
8	11145	Nut M8	2
9	10106	Washer spring 8	2
10	11251	Bolt M12×1.25×150	2
11	35503	Damper, rubber	4
12	10795	Nut M10	4
13	10183	Bolt M6×16	4
14	10140B	Bolt M6×12	1
15	47013	Engine	1



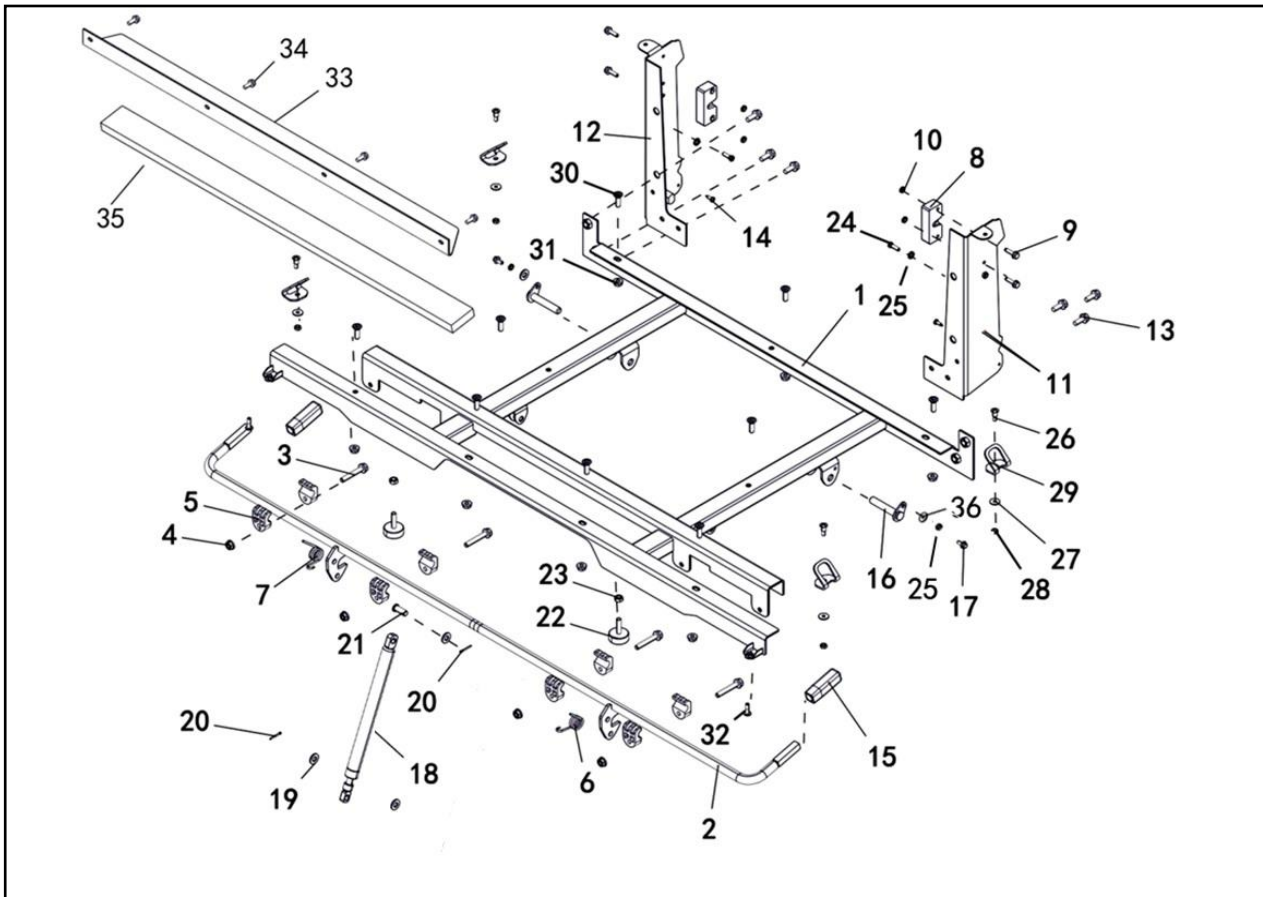
Ref. No.	Part No.	Description	Qty.
1	26318	Nut, front output shaft	1
2	26324	Washer, front output shaft nut	1
3	35428	O-ring	1
4	26330	Coupler, front axle	1
5	35423	Oil seal 48×65×9	1
6	26317	Bearing retainer	1
7	35424	Bearing 6007	2
8	48286	Bevel gear-driving	1
9	35429	Needle bearing	1
10	35410	Oil seal 24×38×8	2
11	24305	Fill plug	1
12	50082	O-ring 30.5×3	1
13	73020	Drain bolt	1
14	73021	Washer 10	1
15	48285	Front axle box cover	1
16	26323	Adjusting shim(61×48)	as needed
17	48287	Bevel gear-driven	1
18	26334	Top bracket, differential gear	1
19	26332	Bracket, differential	1
20	26331	Bolt M10×1.25×20	6
21	10959	Bearing 61912	1
22	26322	Adjusting shim(83×71)	as needed
23	26315	Drive clutch	1
24	26316	Drive clutch cover	1
25	35412	Circlip 62	1
26	10960	Bearing 16007	1
27	35401	O-ring 141×2.4	1

28	48284	Gear case, front axle	1
29	10059	Bolt M8×25	6
30	11075	Screw M8×8	1
31	35493	Washer 8	1
32	21112	Vent nozzle	1
33	25107	Clip	1
34	48288	Vent pipe	1
35	35389	O-ring 81.2×1.9	1
36	35388	Gear motor	1
37	35391	Screw M8×20	4
38	10957	Pin shaft	1
39	26314	Shift fork	1
40	35434	Drive gear	1
41	11076	Pin 5×25	1
42	26327	Wearing ring	2
43	35437	Gear(center), differential	2
44	26325	Washer	1
45	26326	Shim	1
46	35440	Driven gear	1
47	26333	Gear shaft	1
48	48283	Front axle	1



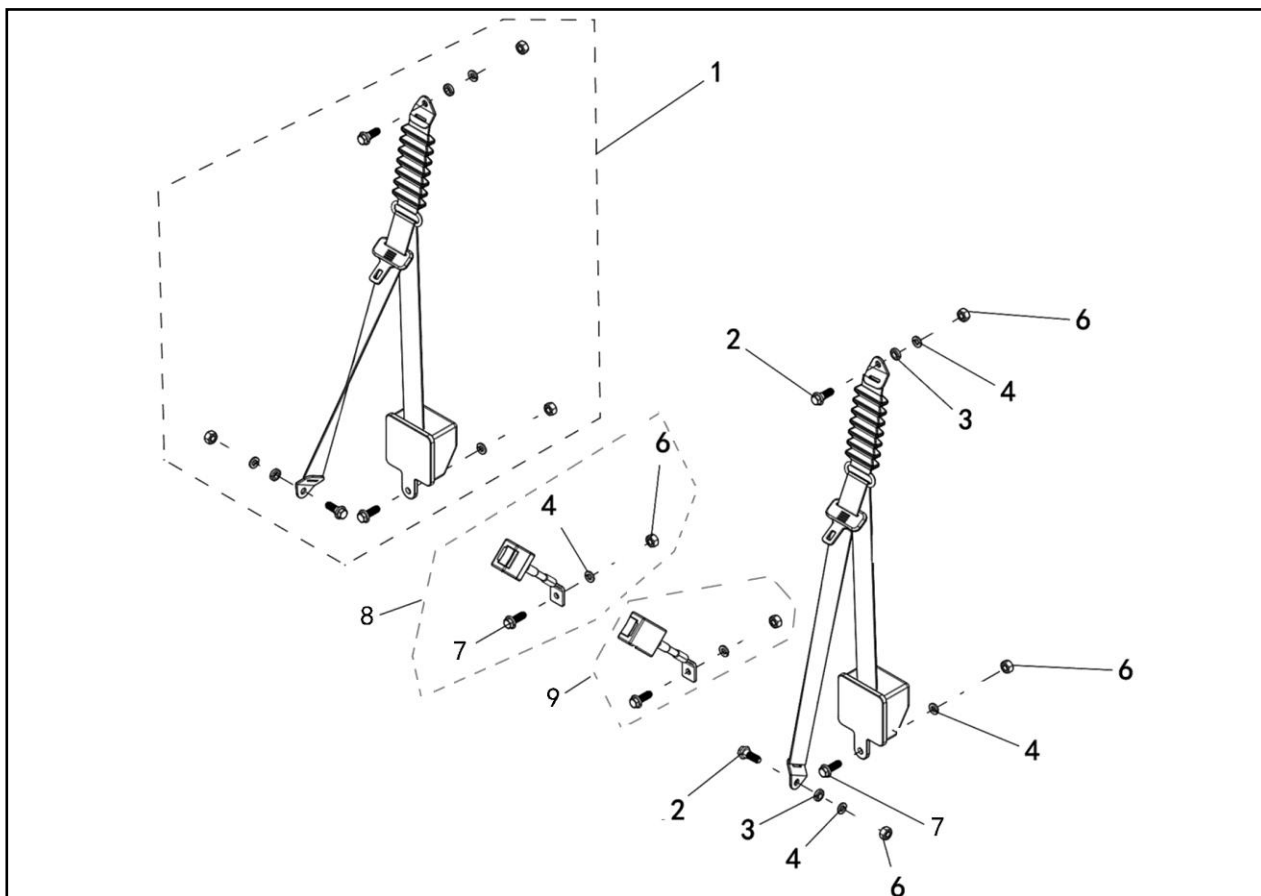
Ref. No.	Part No.	Description	Qty.
1	70296	Nut M16×1.5	1
2	35284	Washer M16	1
3	48115	Coupler, rear axle	1
4	11022	Bolt M8×50	4
5	48119	Mount bracket-parking braking	1
6	35471	Oil seal 35×61×9	1
7	11012	Bearing 30205	1
8	27583	Bevel gear bearing housing	1
9	26311	O-ring 69×3	1
10	27581	Bearing sleeve	1
11	35277	Adjusting shim, bevel gear-driving	as needed
12	11013	Bearing 30206	1
13	48116	Bevel gear-driving	1
14	48112	Diff solenoid	1
15	73013	O-ring 17×3	1
16	26302	Oil seal 30×50×13.5	2
17	21112	Vent nozzle	1
18	25107	Clip	2
19	48376	Vent pipe	1
20	83179	Bolt M18×1.25	1
21	83180	Washer 18	1
22	48114	Gear case, rear axle	1
23	73020	Drain bolt	1
24	73021	Washer 1	2
25	73030	Clutch gear	1
26	11023	Bearing 6210	1
27	48117	Bevel gear-driven	1

28	47866	Diff case	1
29	27588	Hexagon flange bolt M10×1.25×16	8
30	10056	Bearing 110	1
31	35493	O-ring 151×3	1
32	21106	Adjusting shim	as needed
33	27589	Rear axle box cover	1
34	10059	Bolt M8×25	8
35	73036	Wearing ring	2
36	73035	Planetary gear	2
37	73032	Gear shaft	1
38	11024	Pin 4×30	1
39	73034	Side gear thrust-washer	2
40	73031	Diff side gear	2
41	73040	Shift return spring	2
42	47879	Shift lever spring	1
43	27592	Shift lever	1
44	27591	Shift bar	1
45	73041	Shift yoke	1
46	27590	Shift pin	1
47	48113	Rear axle	1
48	48377	Breathing air	1
49	48434	Gasket, bevel gear-driven	as needed
50	35918	Link, breathing air	1

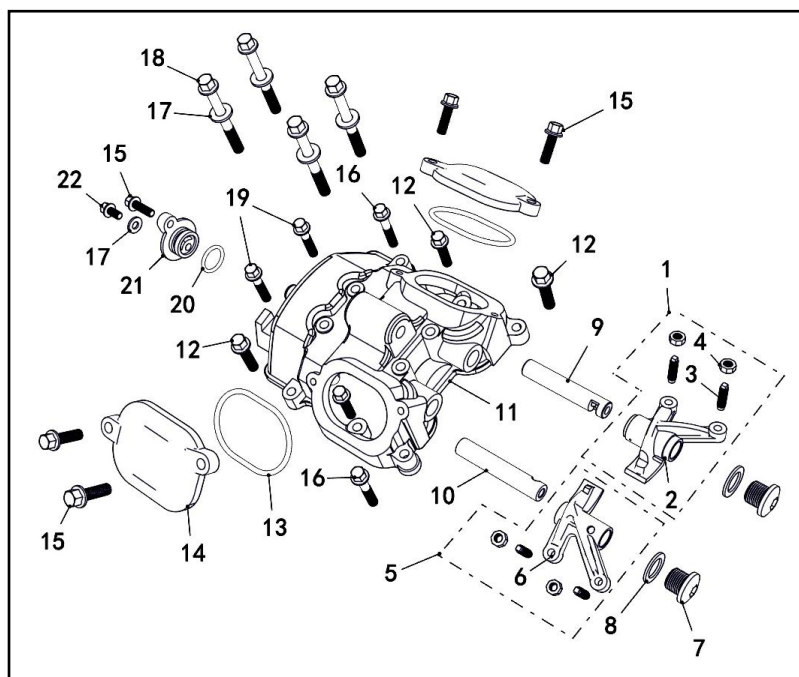


Ref. No.	Part No.	Description	Qty.
1	48132	Box floor cover	1
2	48133	Cargo handle assy	1
3	11101	Bolt M8×45	4
4	11145	Nut M8	4
5	48134	Rubber sheath	8
6	48135	Pedal spring, L	1
7	48136	Pedal spring, R	1
8	48139	Lock seat, rear trunk	2
9	10278	Bolt M6×22	4
10	10104	Nut M6	4
11	48142	Rear side protecting plate, LH	1
12	48143	Rear side protecting plate, RH	1
13	10783	Bolt M8×20	6
14	48316	Tapping screw M5×16	2
15	26786	Cap, protector end	2
16	48313	Pin shaft, rotation	2
17	10140B	Bolt M6×12	2
18	26784	Damper 1	1
19	10089	Washer 10	3
20	10021	Pin 2.5×25	2
21	73161	Pin axle	1
22	48151	Damper, cargo box adjusting	2
23	11176	Nut M8	2
24	48147	Bolt	2
25	11019	Washer spring 6	4
26	48270	Bolt M6×20	4
27	11246	Washer 6	4
28	11233	Nut M6	4
29	48153	Hook	4
30	48359	Bolt, brake rotor	9
31	11145	Nut M8	9
32	48270	Screw M6×20	2
33	48351	Plate, box	1
34	48270	Bolt M6×20	4
35	48352	Sponge	1
36	11245	Washer 6	2

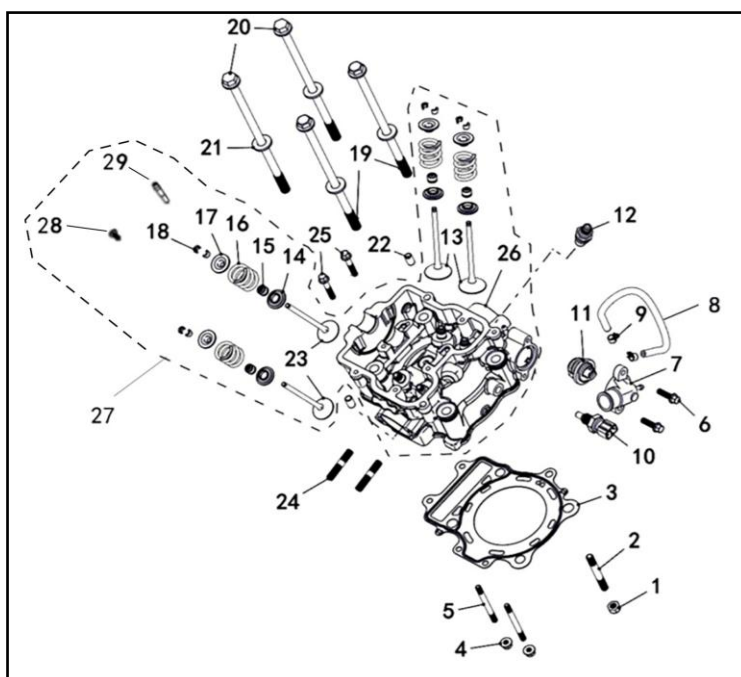
V30-Body, Seat Belt Mounting



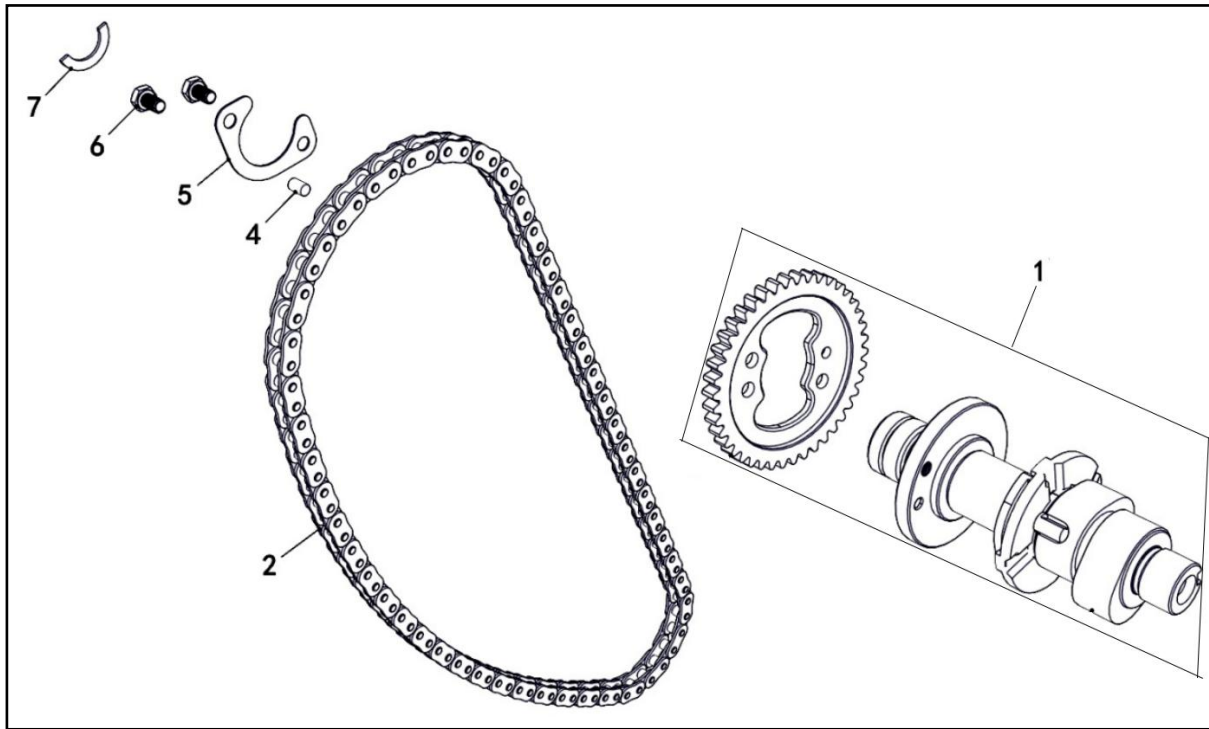
Ref. No.	Part No.	Description	Qty.
1	48380	Seat belt assy	2
2	48381	Bolt 1	4
3	48382	Washer 1	4
4	48383	Spring washer 12	8
5	48385	Nut 8	7
6	48386	Bolt 2	4
7	48387	Belt receiver assy, R	1
8	48388	Belt receiver assy, L	1



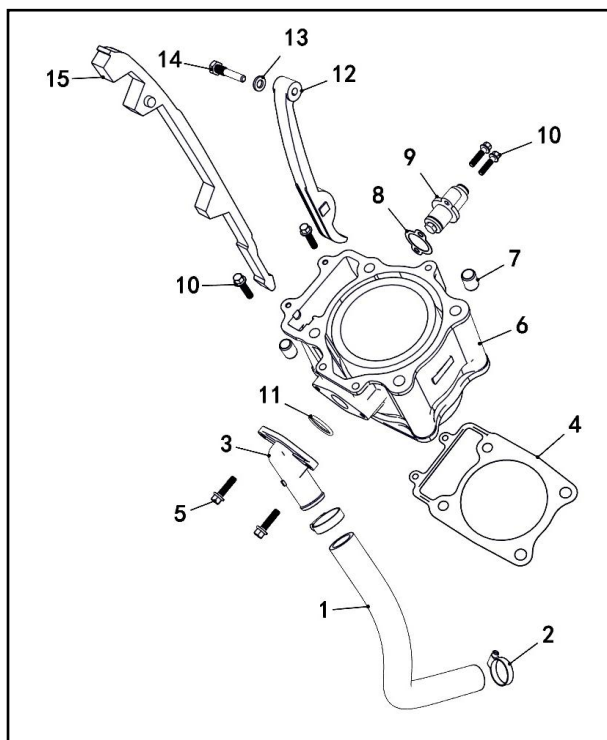
Ref. No.	Part No.	Description	Qty.
1	35143	Intake rocker arm comp	1
2	35144	Intake rocker arm valve	1
3	35146	Adjusting nut valve	4
4	35147	Adjusting screw valve	4
5	35148	Exhaust rocker arm comp	1
6	35149	Exhaust rocker arm valve	1
7	35150	Bolt M14×1.25×12	2
8	35215	Washer 14	2
9	35142	Intake rocker shaft	1
10	35145	Exhaust rocker shaft	1
11	35110	Cylinder head cover	1
12	10187	Bolt M6×25	4
13	35111	Gasket	2
14	35107	Valve adjust cover	2
15	10110	Bolt M6×20	5
16	10186	Bolt M6×35	2
17	35108	Washer 6	5
18	10530	Bolt M6×55	4
19	10182	Bolt M6×30	2
20	35113	O-ring 18×2.4	1
21	35112	Seal cover	1
22	10140	Bolt M6×12	1



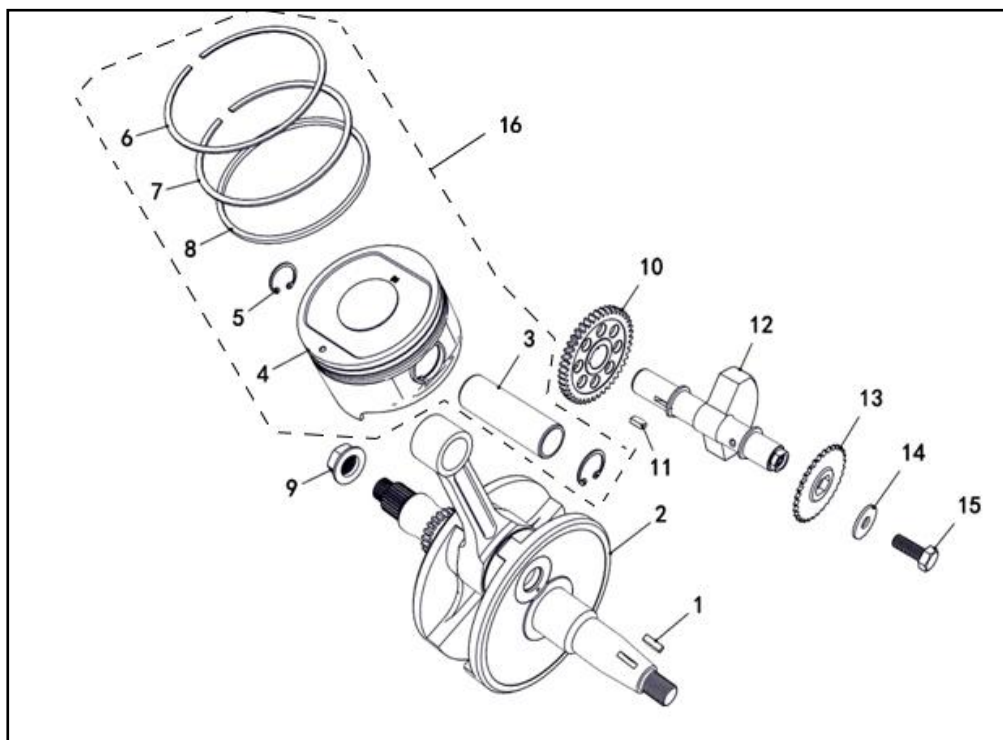
Ref. No.	Part No.	Description	Qty.
1	10067	Thrust nut M8	1
2	35097	Stud M8×68	1
3	35106	Gasket, cylinder head	1
4	10004	Thrust nut M6	2
5	35098	Stud M6×72	2
6	10278	Bolt M6×22	2
7	35103	Water outlet joint, cylinder head	1
8	35104	Pipe, cylinder head	1
9	35109	Clip 7.5	2
10	35095e	Water temperature sensor	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 M10×1.25×190	2
20	35101	Cylinder bolt M10×1.25×200	2
21	35102	Washer, cylinder bolt	4
22	50076	Dowel pin 8×14	2
23	35141	Exhaust valve	2
24	35099	Stud M8×42	2
25	10186	Bolt M6×35	2
26	35096e	Cylinder head	1
27	48429	Cylinder head assy	1
28	48925	Waterway screw	1
29	35851	Water pipe connector	1



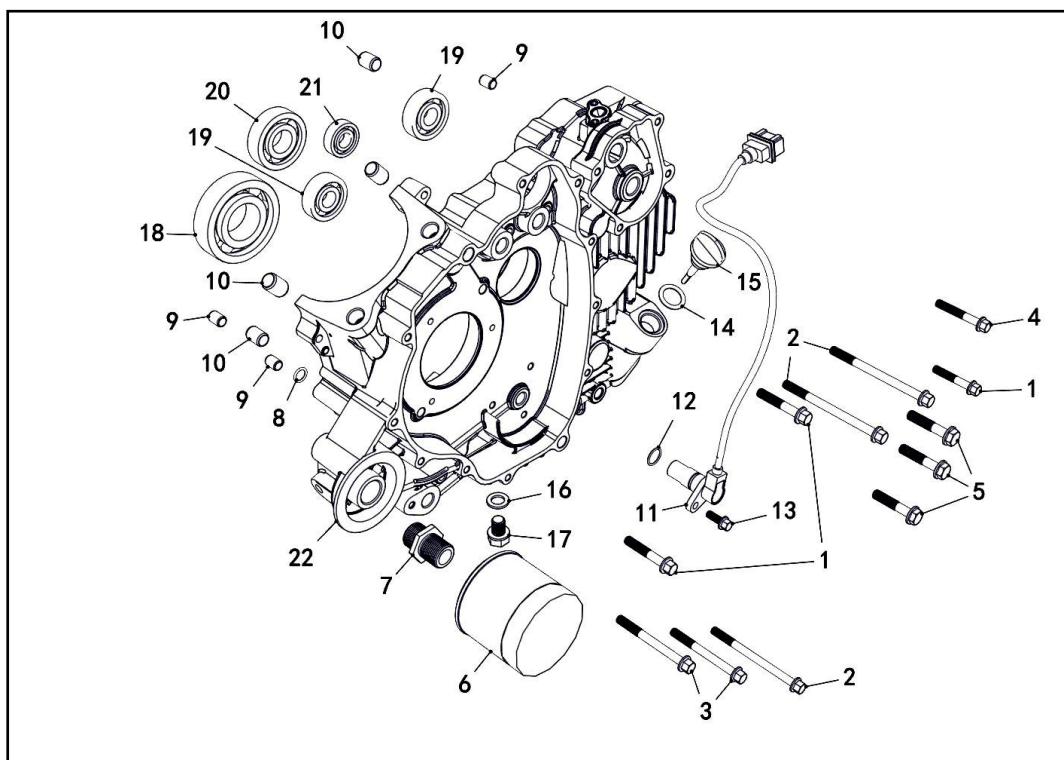
Ref. No.	Part No.	Description	Qty.
1	35970	Camshaft & timing sprocket assembly	1
2	35163	Timing chain	1
4	10835	Dowel pin, timing sprocket	1
5	35153	Retainer	1
6	10828	Bolt M6×10	2
7	35152	Camshaft spacer	1



Ref. No.	Part No.	Description	Qty.
1	35116	Water inlet hose	1
2	35117	Sleeve, water hose	1
3	35343	Clamp 20/32	2
4	35114	Joint, water inlet	1
5	35120	Gasket, cylinder	1
6	10278	Bolt M6×22	2
7	35976	Cylinder	1
8	35118	Dowel pin 13×18	2
9	35158	Gasket, tensioner	1
10	35157	Tensioner	1
11	11436	Bolt M6×25	4
12	35115	O-ring 24×2.5	1
13	35160	Tensioner plate	1
14	35162	Washer 8	1
15	35161	Bolt, tensioner plate	1
16	35159	Timing chain guide	1

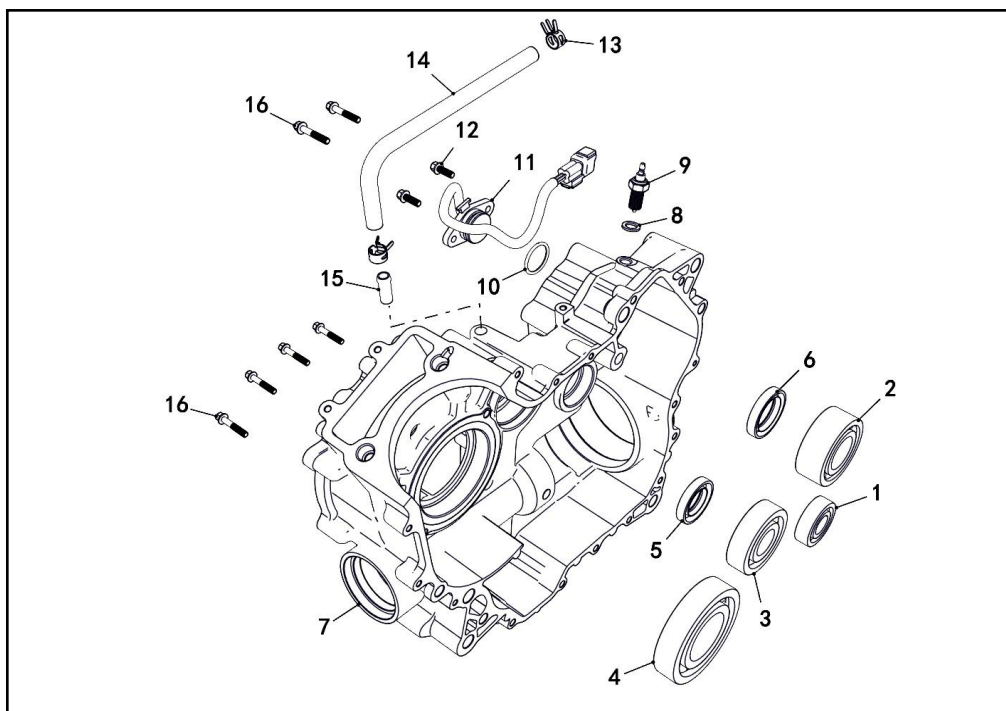


Ref. No.	Part No.	Description	Qty.
1	35133	Key	1
2	35121a	Crankshaft	1
3	35128	Piston pin	1
4	35127	Piston	1
5	35129	Clip, piston pin	2
6	35124	Top ring	1
7	35124	2nd ring	1
8	35124	Oil ring	1
9	35122	Nut M18×1.5 (L)	1
10	35131	Gear, balancer shaft	1
11	35123	Key	1
12	35130	Balancer shaft	1
13	35132	Sprocket, balance shaft	1
14	35134	Washer 10.2×28×2	1
15	10028	Bolt M10×25	1
16	35859	Piston assembly	1

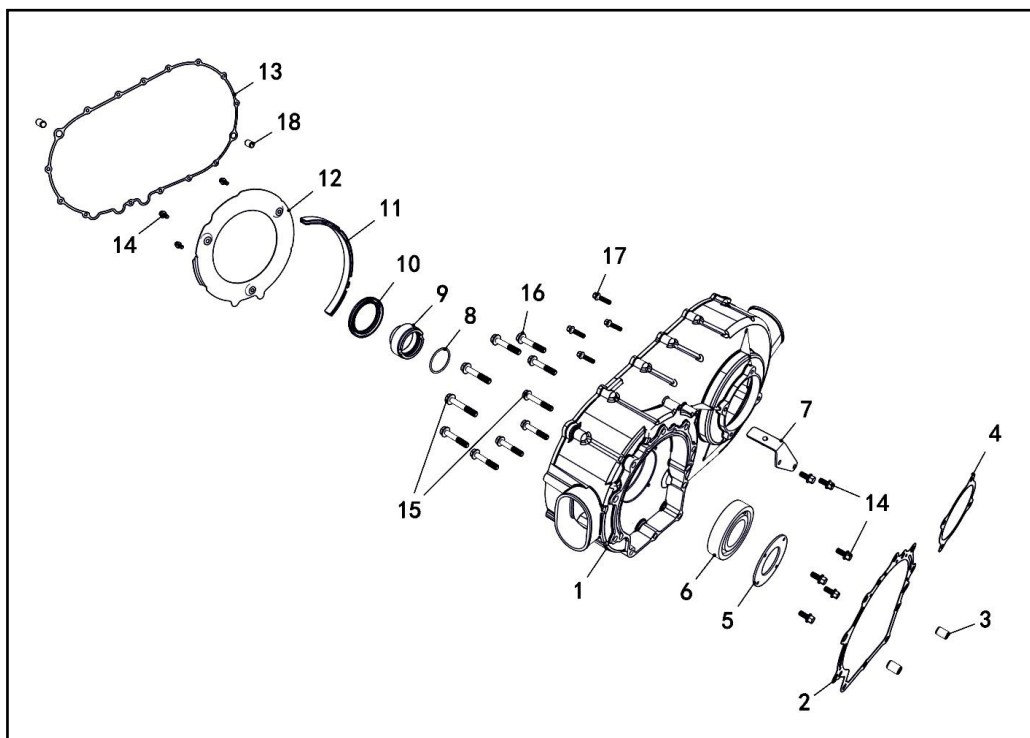


Ref. No.	Part No.	Description	Qty.
1	10186	Bolt M6×35	3
2	10827	Bolt M6×80	3
3	10005	Bolt M6×60	2
4	10177	Bolt M6×40	1
5	35221	Bolt M8×38	3
6	35223	Oil filter	1
7	35213	Bolt, oil filter	1
8	10843	O-ring 10×1.8	1
9	35094	Dowel pin 10×14	3
10	35118	Dowel pin 13×18	4
11	35337	Speed sensor	1
12	35225	O-ring 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

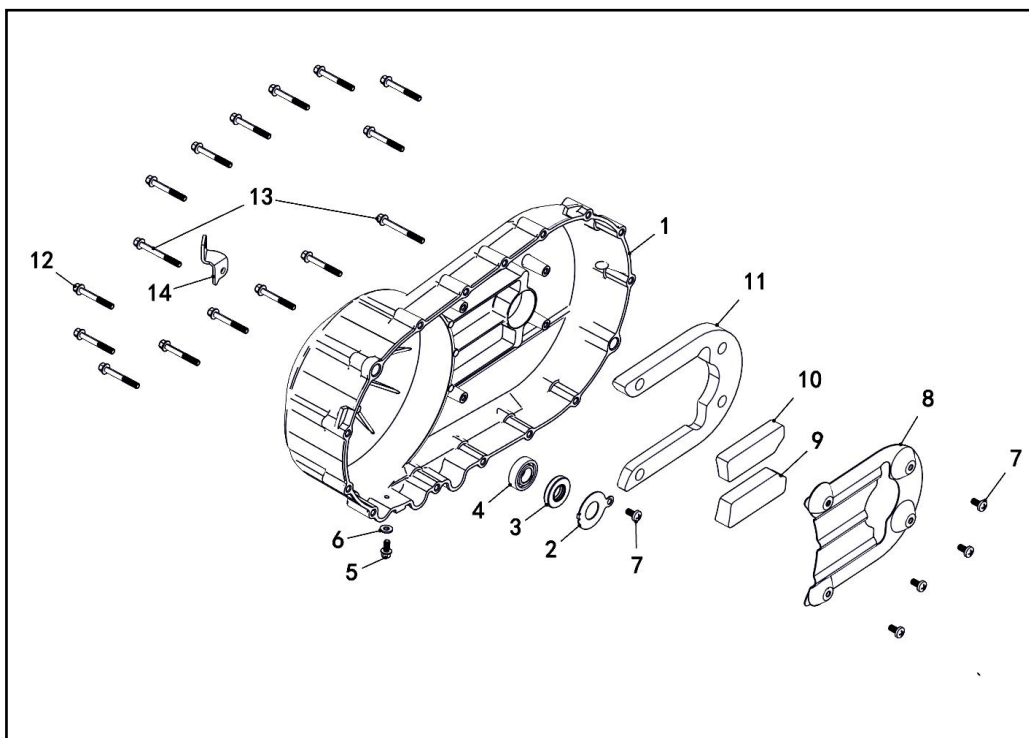
E07-Right Crankcase



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 30×45×8	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	2
14	35220a	Breather hose	1
15	35219	Joint, breather hose	1
16	10186	Bolt M6×35	6

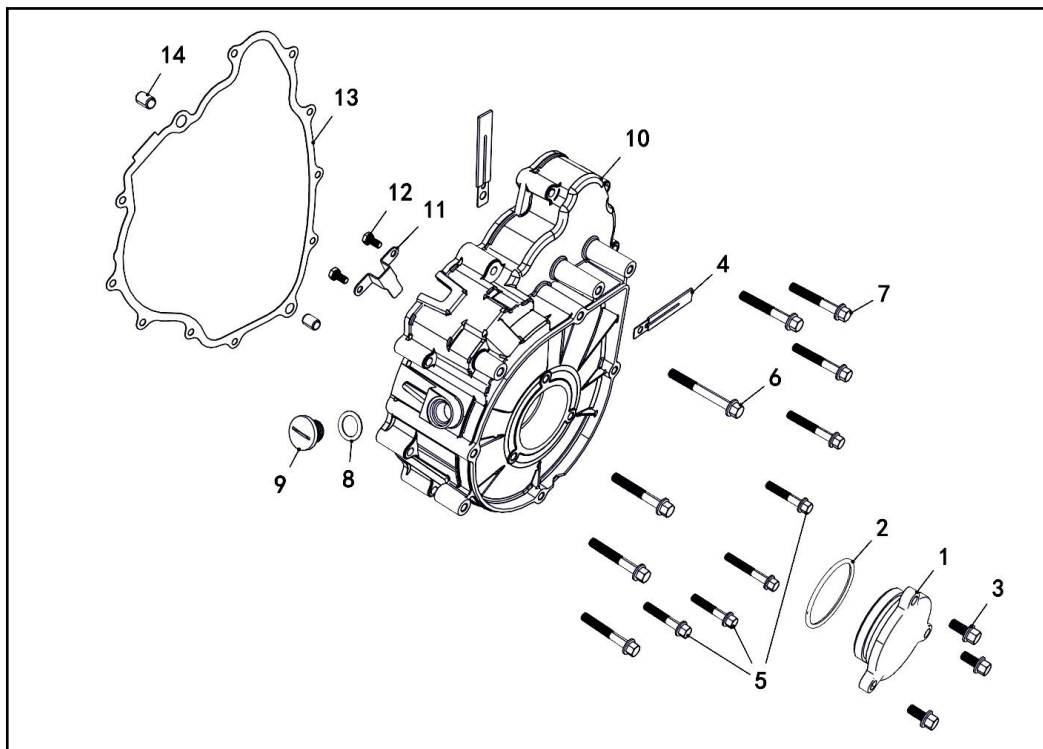


Ref. No.	Part No.	Description	Qty.
1	35235	CVT housing	1
2	35238	Gasket 1, CVT housing	1
3	35094	Dowel pin 10×14	2
4	35239	Gasket 2, CVT housing	1
5	35236	Bearing retainer, CVT	1
6	10852	Bearing 6208RS	1
7	48028	Plate, pipe	1
8	35229	O-ring 39×2.3	1
9	35228	Spacer, drive shaft	1
10	35251	Oil seal 54×70×8	1
11	35533	Rubber strip	1
12	35237	Plate, air intake	1
13	35231	Gasket, CVT cover	1
14	10140	Bolt M6×12	9
15	35232	Bolt M8×50	2
16	35233	Bolt M8×45	8
17	10187	Bolt M6×25	4
18	35118	Dowel pin 13×18	2

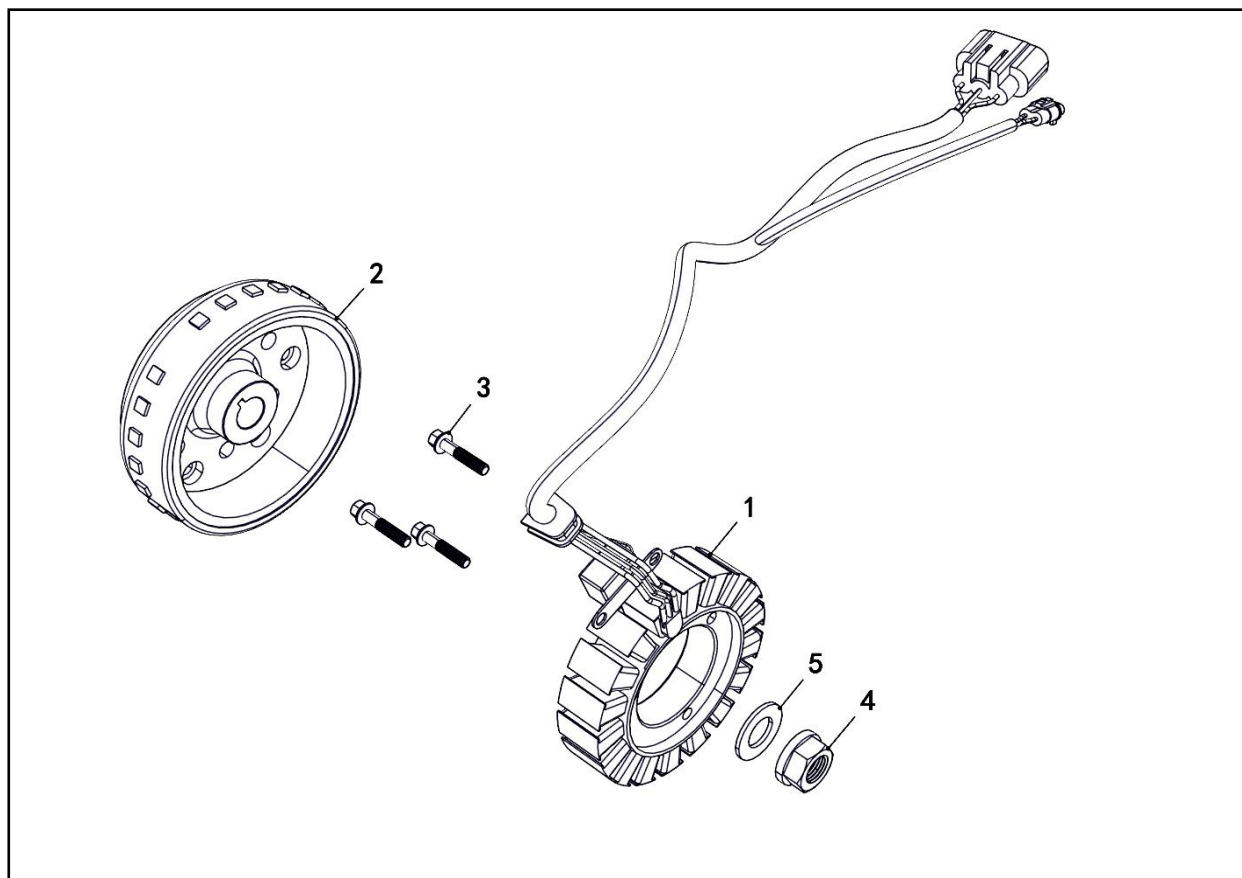


Ref. No.	Part No.	Description	Qty.
1	35230	CVT cover	1
2	35253	Limitator, oil seal	1
3	35252	Oil seal 17×35×5	1
4	10853	Bearing 6003/P6	1
5	10826	Bolt M6×10	1
6	35108	Washer 6	1
7	26262	Screw M6×12	5
8	35254	Damper plate	1
9	35257	Rubber damper 3	1
10	35255	Rubber damper 1	1
11	35256	Rubber damper 2	1
12	29503	Bolt M6×45	14
13	10530	Bolt M6×55	2
14	48012	Connecting plate, air shroud	1

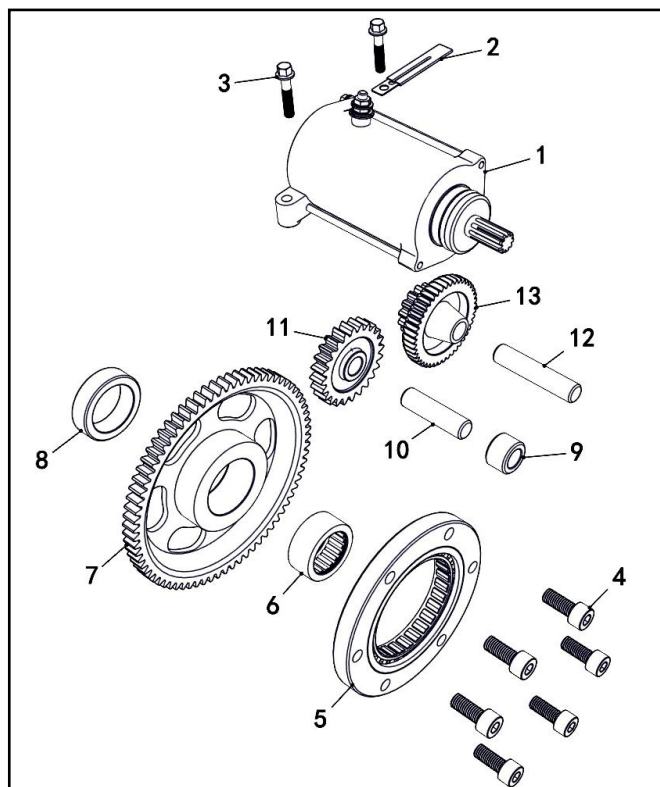
E10-Left Crankcase Cover



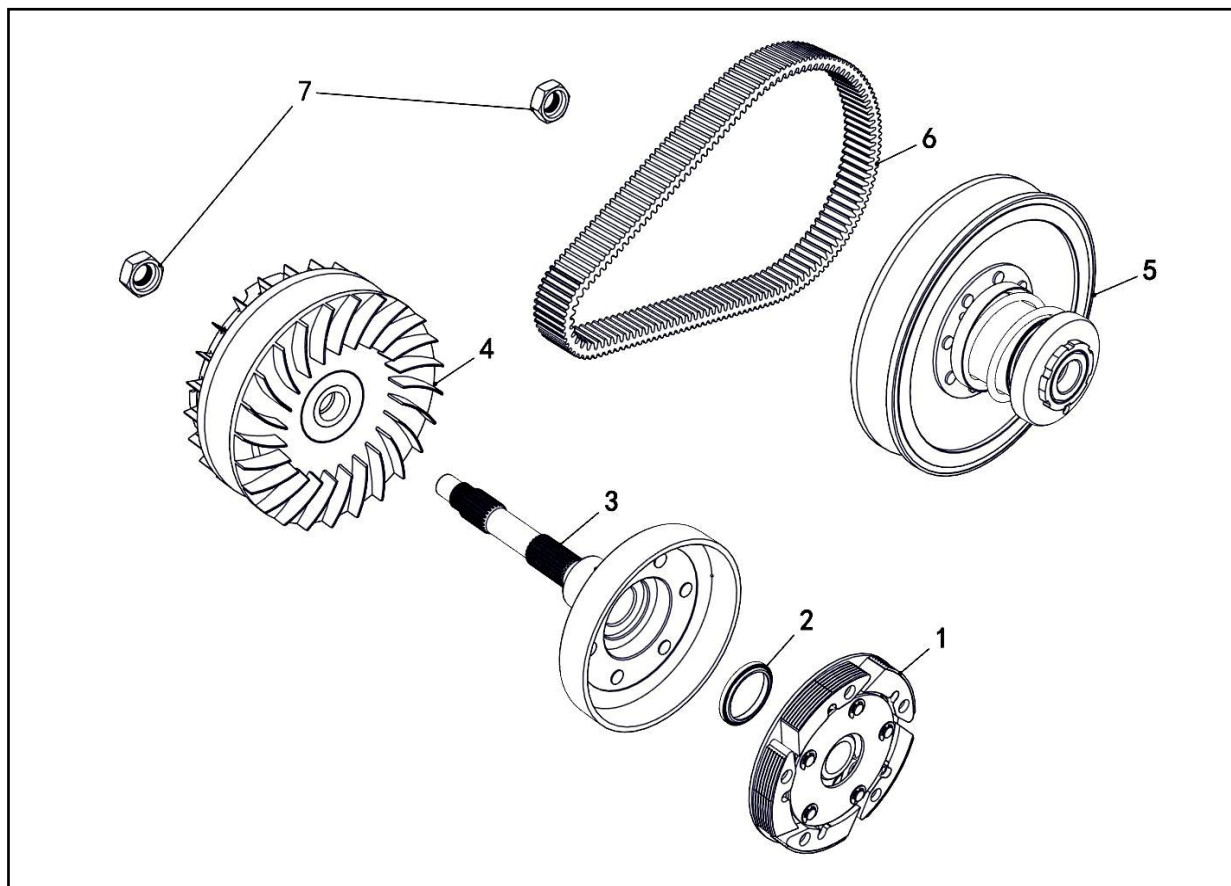
Ref. No.	Part No.	Description	Qty.
1	35537	End cap	1
2	10039	O-ring 46.5×2.65	1
3	10140	Bolt M6×12	3
4	35247	Cable clamp	2
5	10329	Bolt M6×32	3
6	10349	Bolt M6×50	1
7	10177	Bolt M6×40	8
8	35250	O-ring 12×2.8	1
9	35249	Plug, inspection	1
10	35234	Left crankcase cover	1
11	35246	Lead holder	1
12	10829	Bolt M5×10	2
13	35244	Gasket, left crankcase cover	1
14	35094	Dowel pin 10×14	2



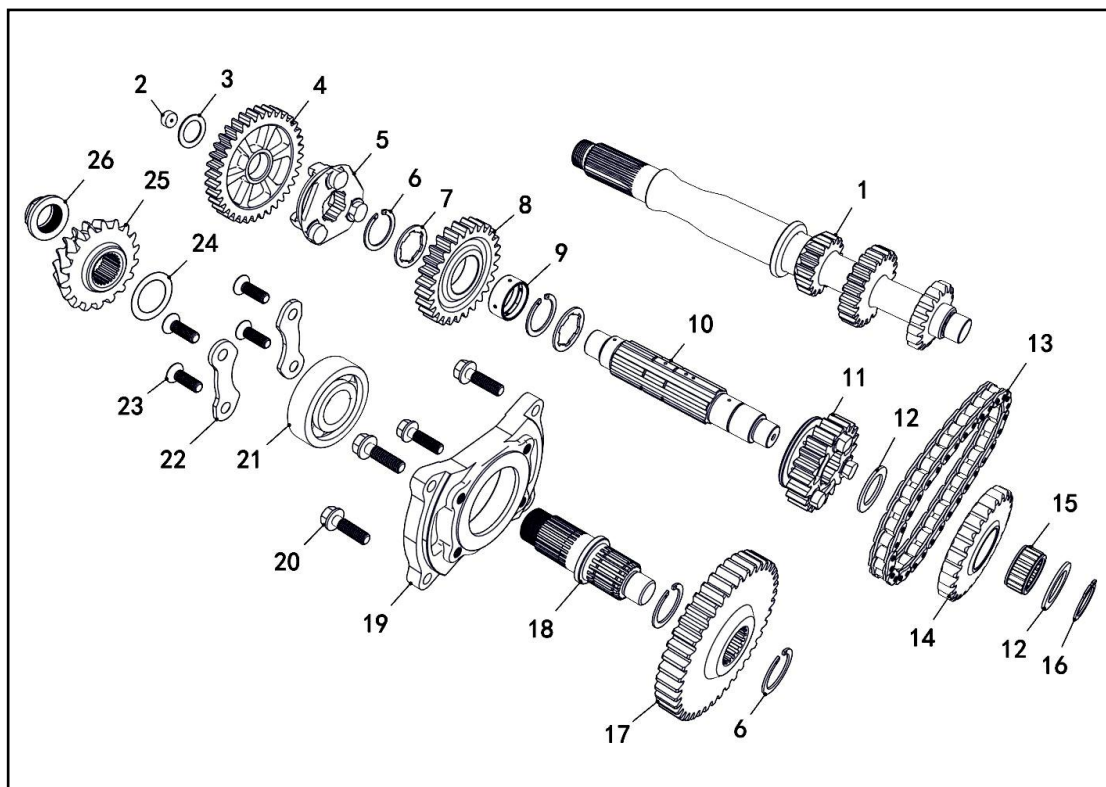
Ref. No.	Part No.	Description	Qty.
1	35334	Stator assy	1
2	35335e	Rotor assy	1
3	10182	Bolt M6×30	3
4	71688	Nut M16×1.5	1
5	71689	Washer 16.5	1



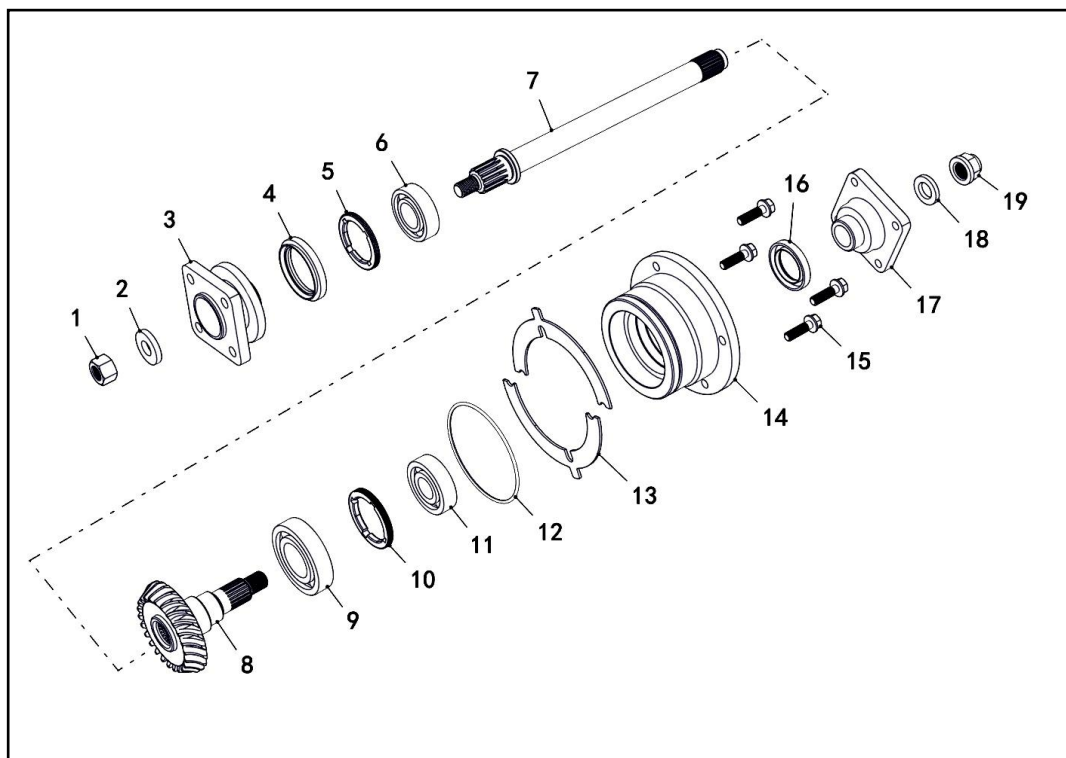
Ref. No.	Part No.	Description	Qty.
1	35336	Starting motor	1
2	35247	Cable clamp	1
3	10182	Bolt M6×30	2
4	10830	Screw M8×20	6
5	35265	Stator clutch	1
6	10859	Needle bearing RNA49/22	1
7	35260	Output gear assy	1
8	35259	Spacer	1
9	35264	Idle gear bushing	1
10	35262	Idle gear shaft	1
11	35263	Idle gear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



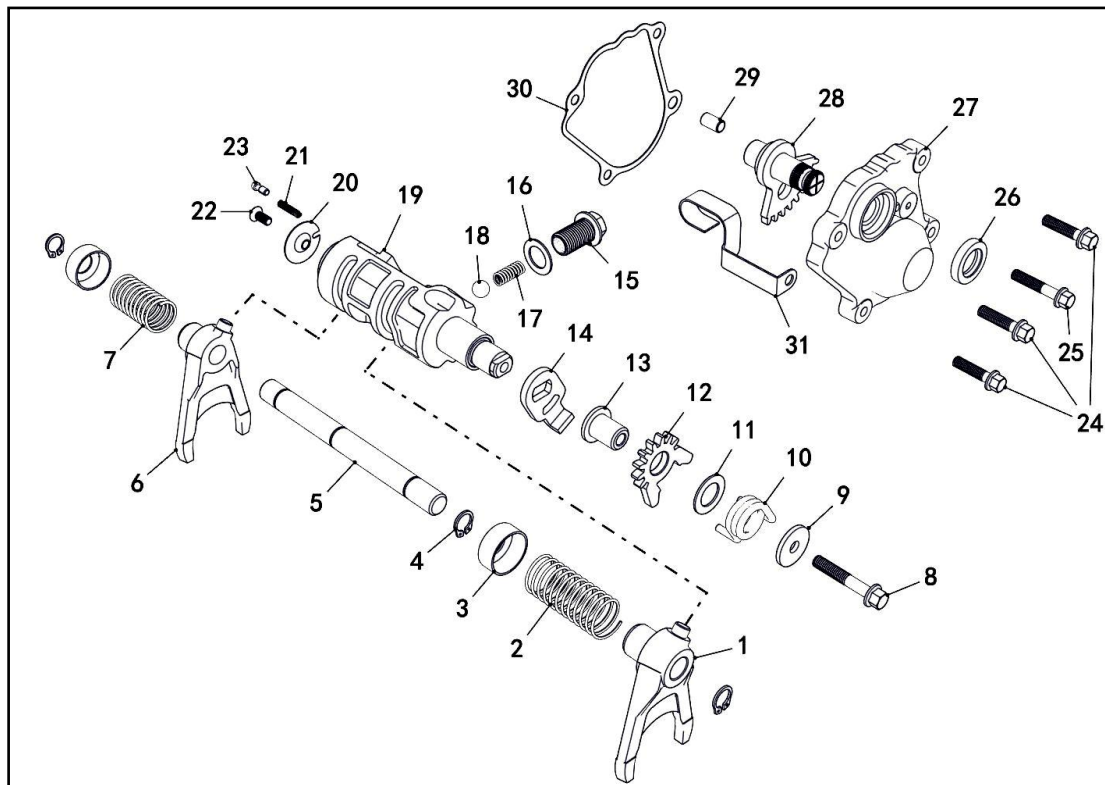
Ref. No.	Part No.	Description	Qty.
1	35296	Clutch carrier assy	1
2	35293	Oil seal 38×46×4/6, end face	1
3	35295	Clutch housing assy	1
4	35298	Drive assy comp	1
5	35299	Driven assy comp	1
6	35297	V-belt	1
7	35294	Nut M20×1.5	2



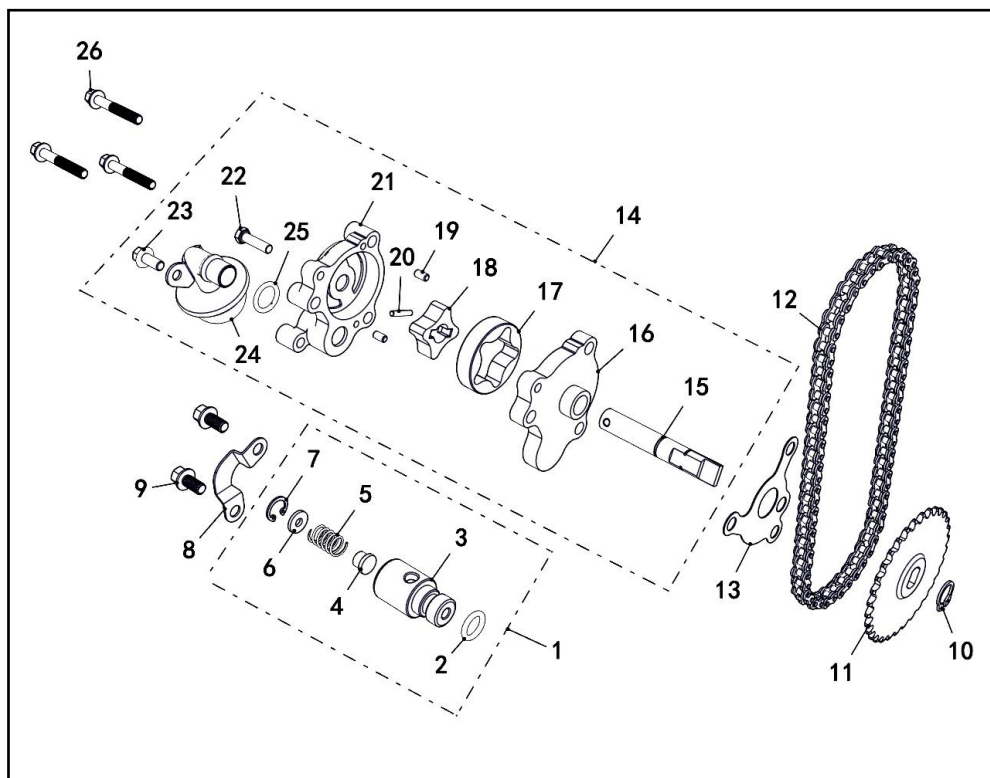
Ref. No.	Part No.	Description	Qty.
1	35320	Main shaft, gearshift	1
2	35309	Bell plug 12	1
3	35307	Washer 17.5×26×1	1
4	35318	Driven gear, low range	1
5	35314	Sliding bush, gearshift	1
6	35311	Circlip 25	4
7	35310	Spline washer	2
8	35316	Driven gear, high range	1
9	35317	Bushing, driven high range gear	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	10276	Screw M8×25	4
24	35277	Adjust washer, drive bevel gear	1
25	35272	Drive bevel gear	1
26	35275	Locknut, bevel gear	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	48430	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

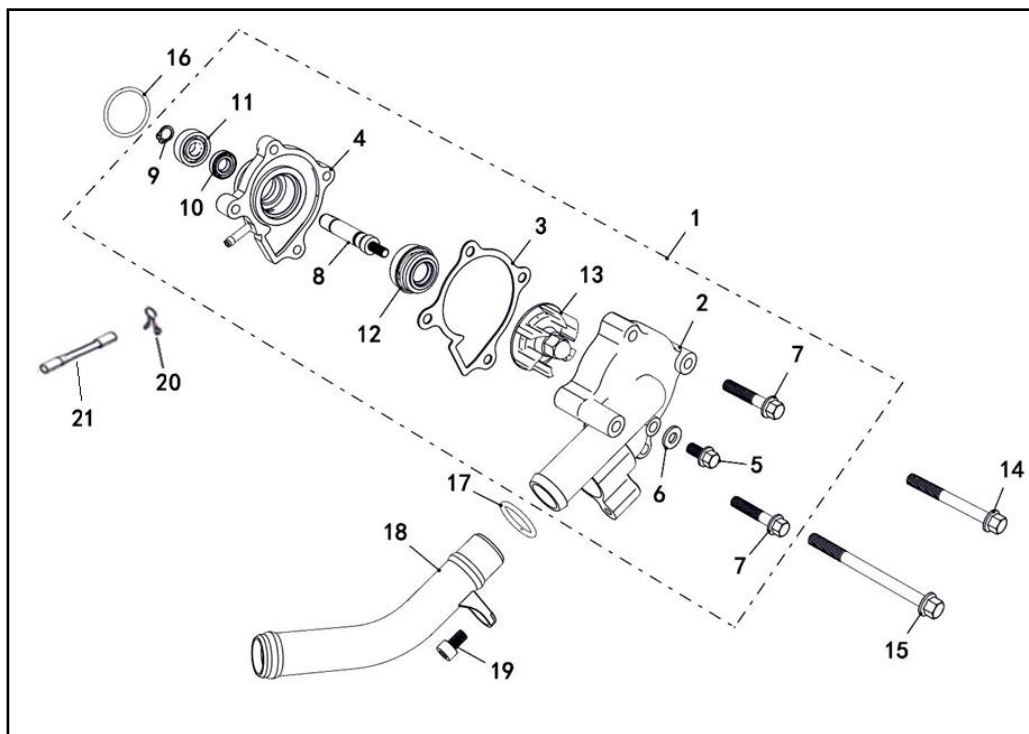


Ref. No.	Part No.	Description	Qty.
1	35330	Left shift fork	1
2	35327	Spring 1, shift fork	1
3	35326	Spring seat	2
4	10129	Circlip 12	3
5	35333	Guide bar	1
6	35329	Right shift fork	1
7	35328	Spring 2, shift fork	1
8	10186	Bolt M6×35	1
9	35306	Washer 6.6×22×2	1
10	35305	Torsion spring, driven sector gear	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

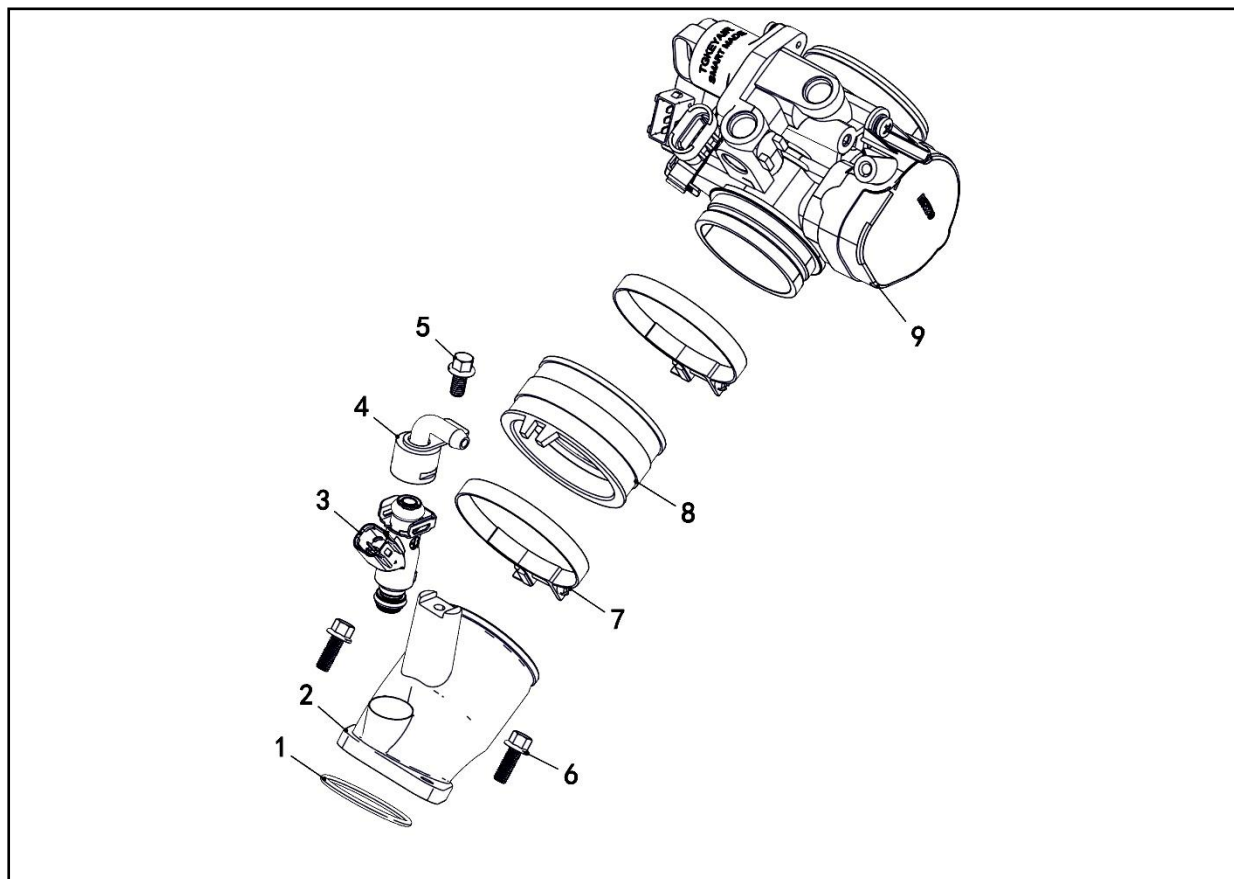


Ref. No.	Part No.	Description	Qty.
1	35197	Relief valve	1
2	35200	O-ring 10×2.3	1
3	35198	Relief valve body	1
4	35199	Oil plug, relief valve	1
5	35201	Spring relief valve	1
6	35202	Spring washer	1
7	10838	Circlip 12	1
8	35203	Pressure strip, relief valve	1
9	10140	Bolt M6×12	2
10	10840	Circlip 11	1
11	35191	Sprocket, oil pump	1
12	35196	Chain, oil pump	1
13	35206	Gasket, oil pump	1
14	35195	Oil pump	1

E18-Water Pump

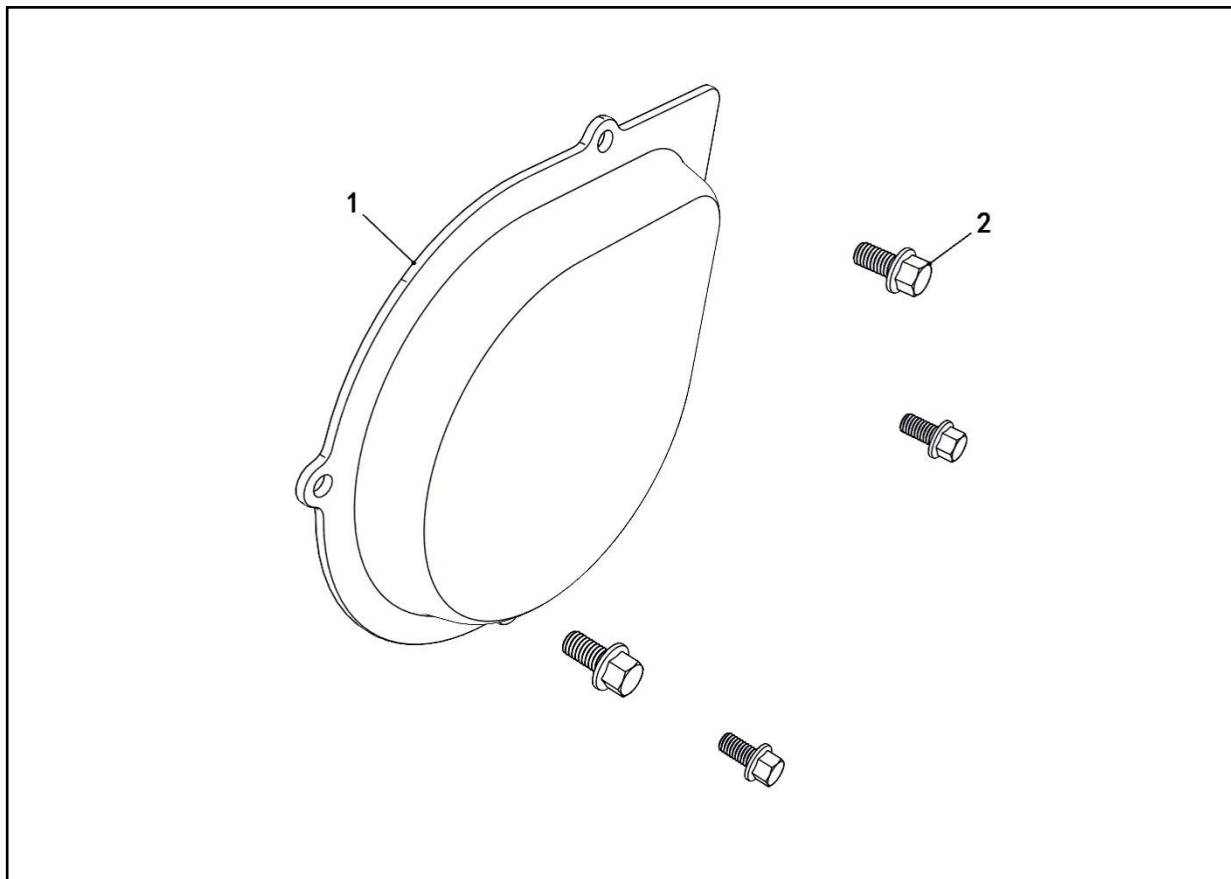


Ref. No.	Part No.	Description	Qty.
1	35179	Water pump assy	1
14	11440	Bolt M6×50	1
15	10160	Bolt M6×70	1
16	35174	O-ring 34×2.5	1
17	35182	O-ring 21×2.5	1
18	35181	Water outlet pipe	1
19	10831	Screw M6×10	1
20	48547	Hoop	1
21	48548	Pipe	1

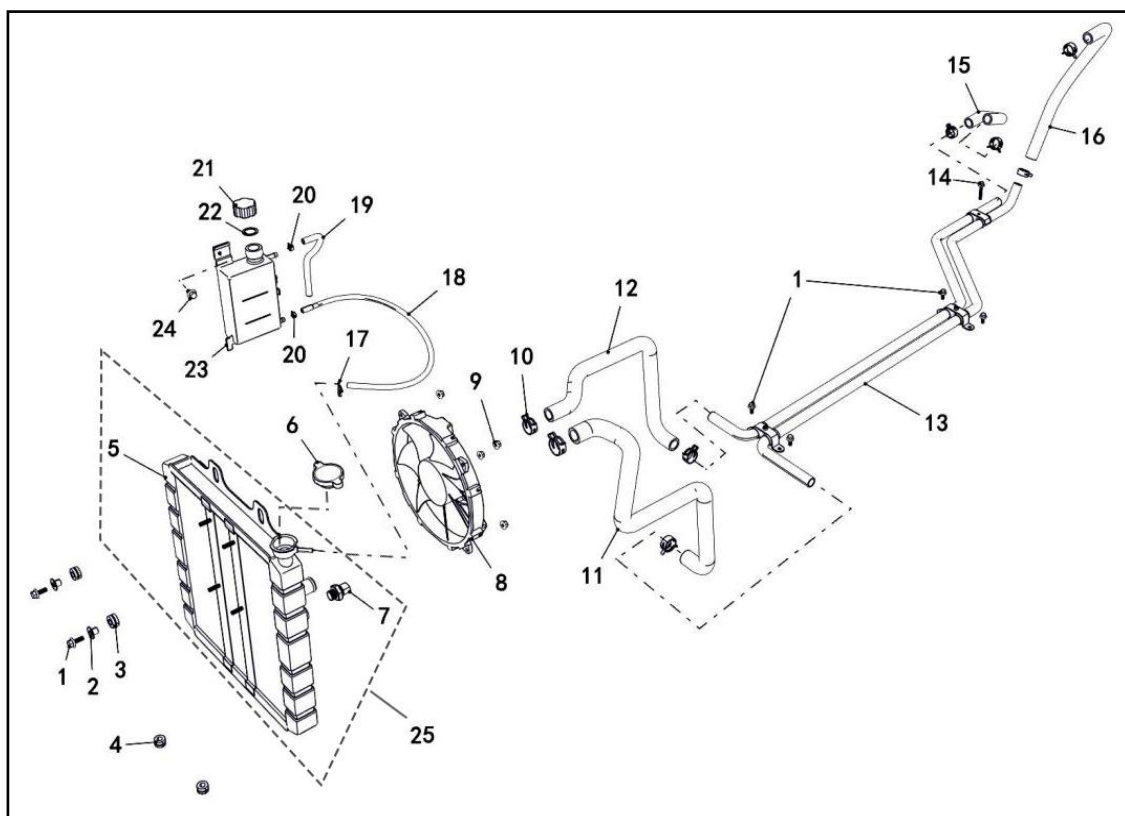


Ref. No.	Part No.	Description	Qty.
1	35207	O-ring 40×2.4	1
2	35744	Joint, carburetor	1
3	35745	Injector	1
4	71850	Injector cap	1
5	10716W	Bolt M6×10	1
6	10183B	Bolt M6×16	2
7	71844	Clip 64	2
8	71849	Joint, feed hose	1
9	36201	Throttle body assembly	1

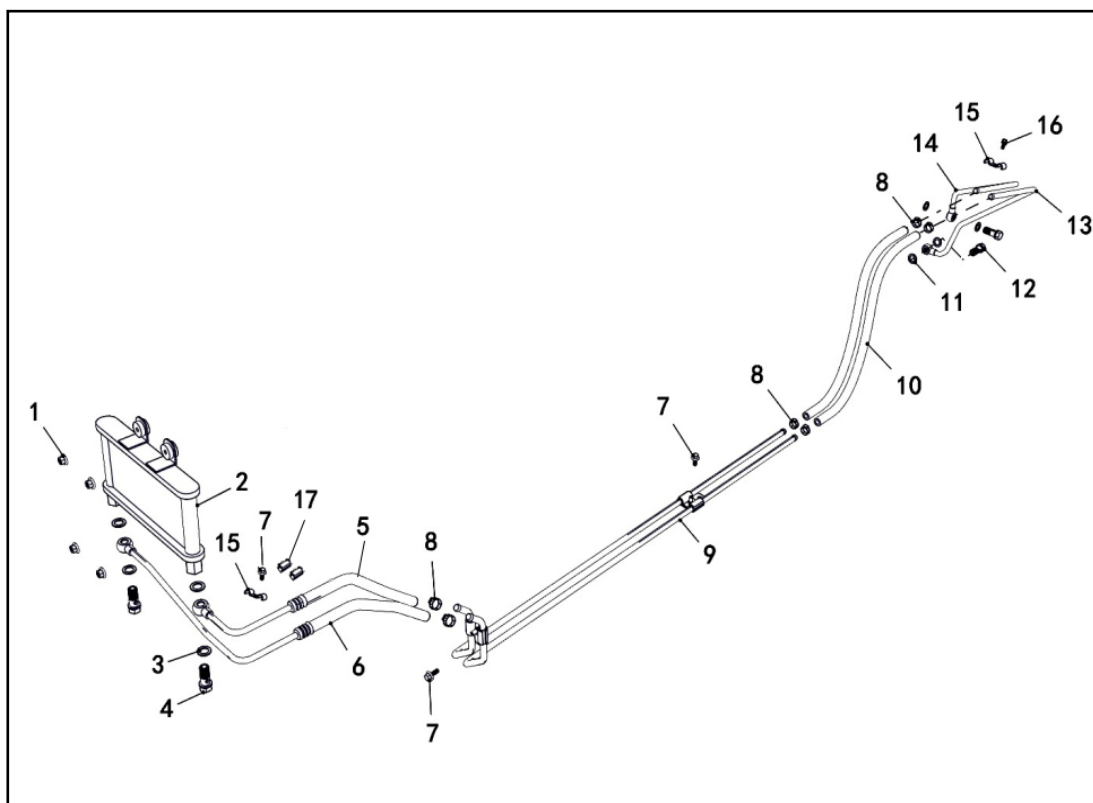
E20-Left Side Cover



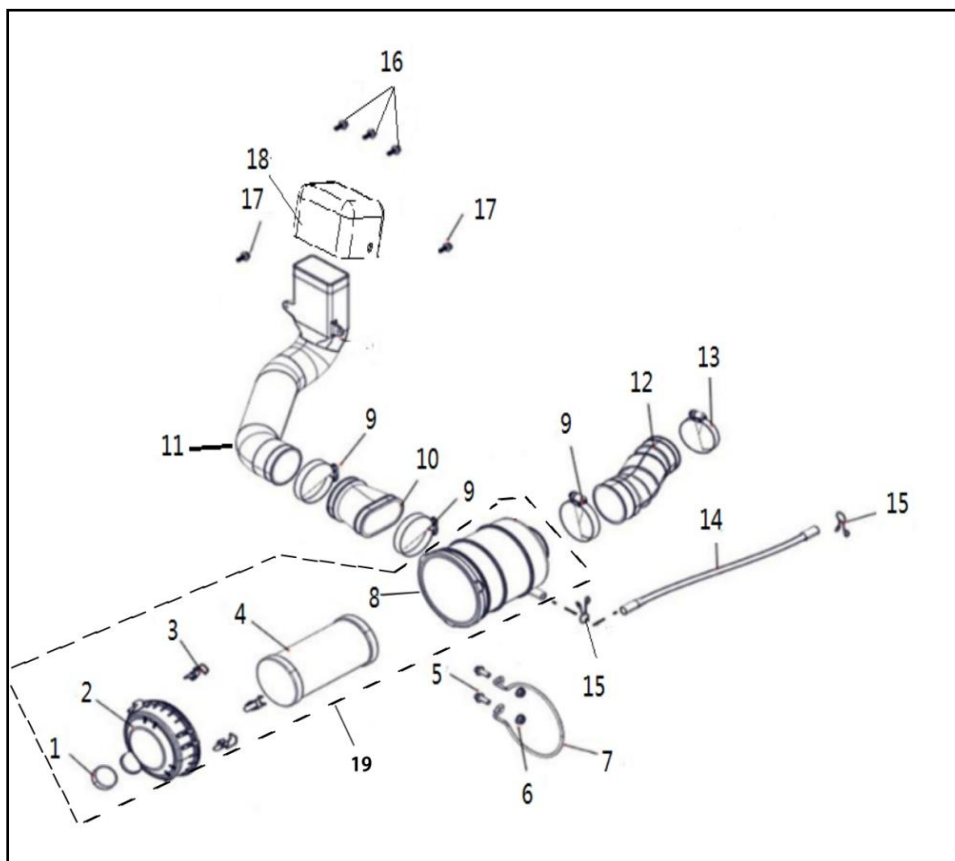
Ref. No.	Part No.	Description	Qty.
1	35270	Left side cover	1
2	10140	Bolt M6×12	4



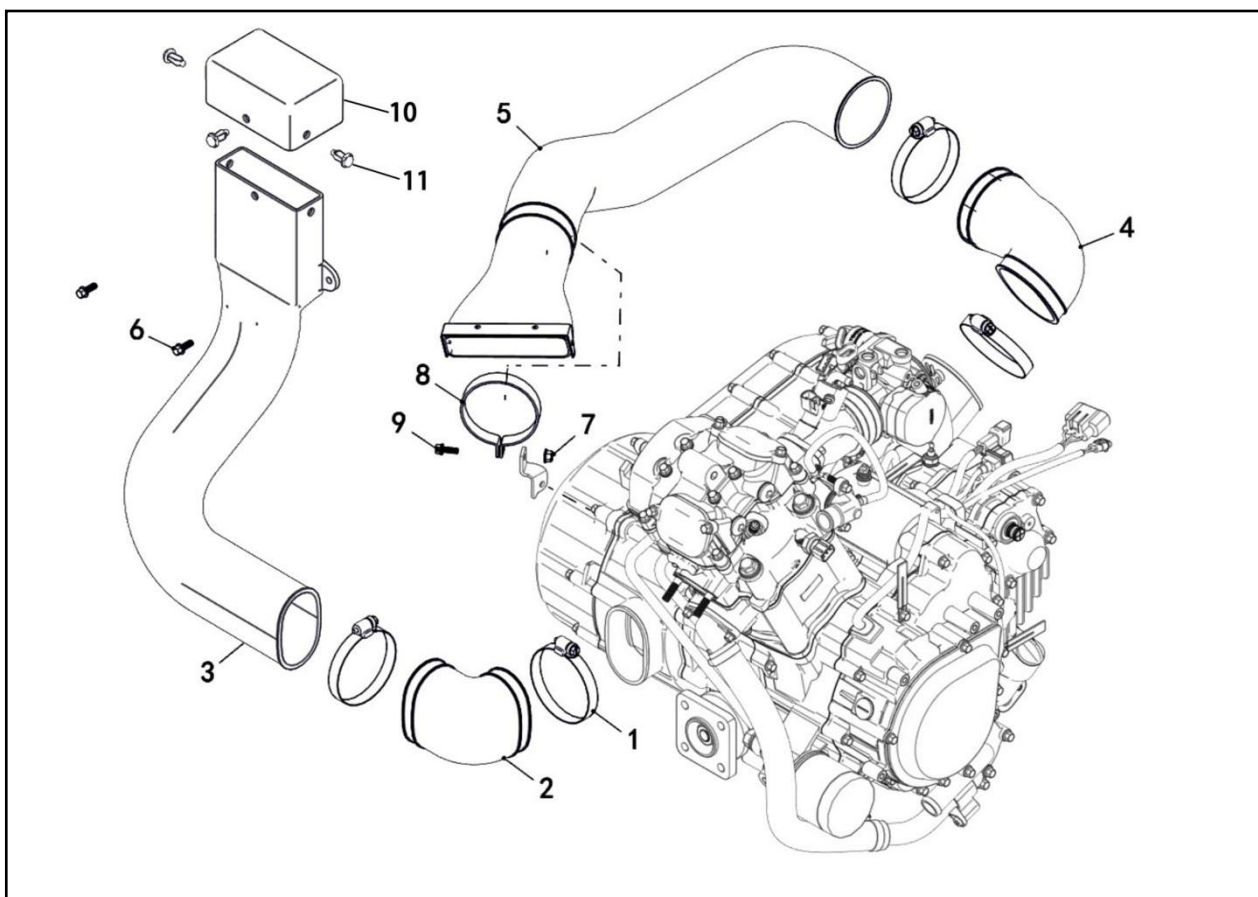
Ref. No.	Part No.	Description	Qty.
1	10183B	Bolt M6×16	6
2	36052	Collar	2
3	36053	Radiator side grommet, up	2
4	36054	Radiator side grommet, down	2
5	48836	Radiator	1
6	22907a	Safety valve	1
7	48020	Thermostat switch assy	1
8	35354	Blower assy	1
9	11475	Nut M6	4
10	11203	Clip 28	8
11	48017	Hose, feed	1
12	48016	Hose, return	1
13	48015	Bracket	1
14	10177B	Bolt M6×40	1
15	48018	Feed hose, valve	1
16	48019	Return hose, cylinder	1
17	72283	Clip 7.7	1
18	48066	Pipe, safety valve	1
19	48325	Pipe, tank recovery	1
20	43521	Clip 9	2
21	70338	Cover, tank recovery	1
22	70339	Washer, tank recovery	1
23	83456	Tank recovery	1
24	10140B	Bolt M6×12	1
25	48795	Radiator and thermostat switch assy	1



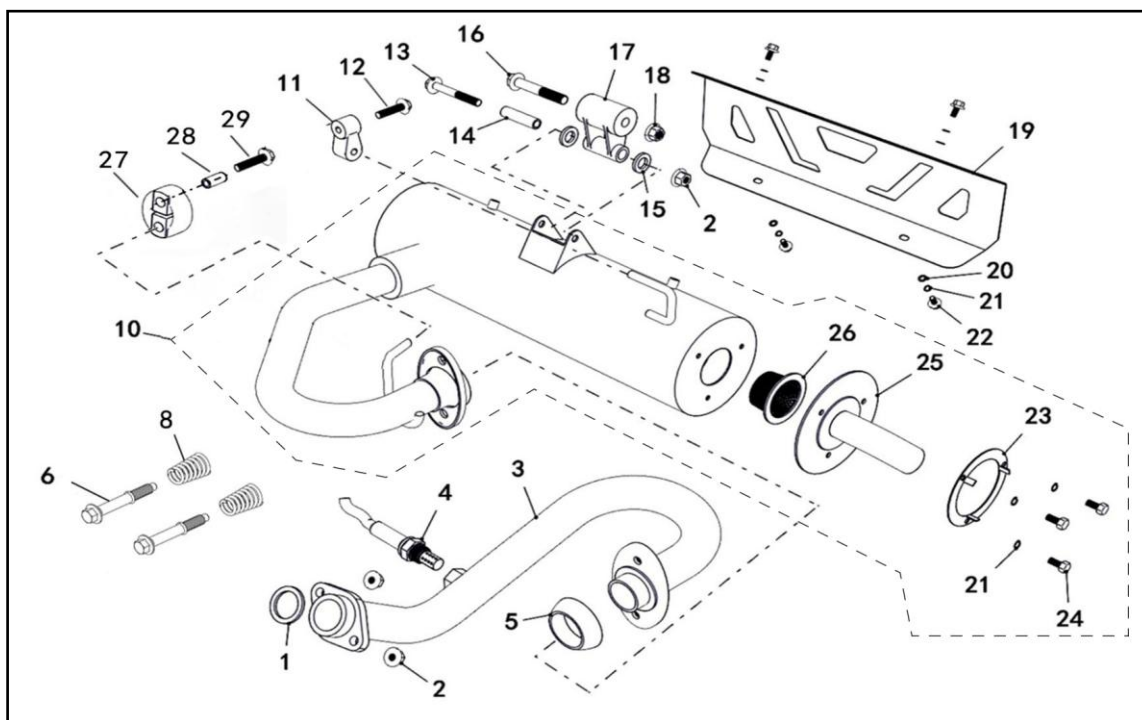
Ref. No.	Part No.	Description	Qty.
1	11475	Nut 6	4
2	29850	Oil radiator	1
3	35341	Washer 4	4
4	35379	Drain plug	2
5	48022	Pipe b	1
6	48021	Pipe a	1
7	10183B	Bolt M6×16	3
8	48027	Clamp 17.8	6
9	48026	Bracket	1
10	48024	Pipe 1	2
11	35215	Washer 14	4
12	35214	Hinge bolt M14×1.5	2
13	48023	Joint b	1
14	48025	Joint a	1
15	36014	Plate	1
16	11448	Bolt M6×12	1
17	36015	Rubber damper	1



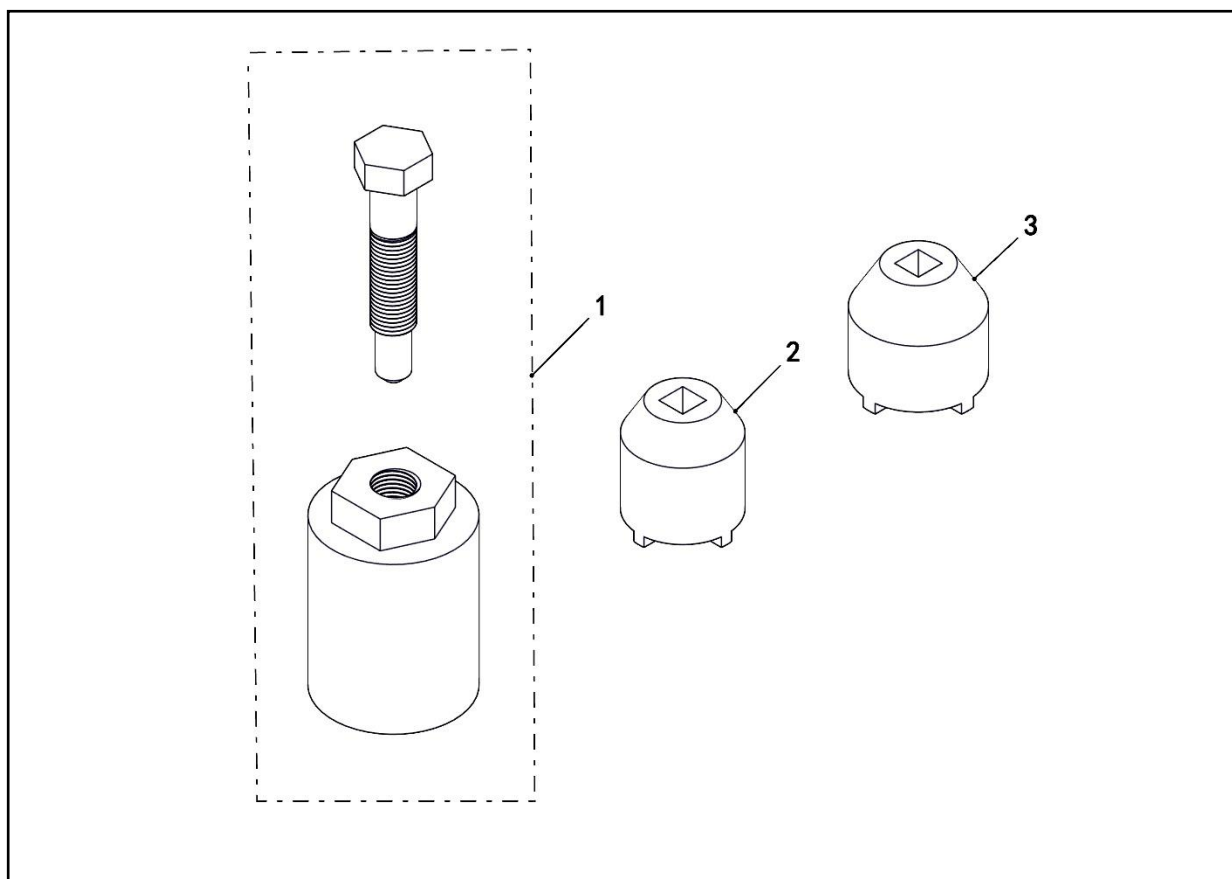
Ref. No.	Part No.	Description	Qty.
1	73835	Oil cap	1
2	73823	Cover, air cleaner	1
3	73825	Wire spring fastener	3
4	73824	Element comp air cleaner	1
5	11492	Bolt M8×20	2
6	11455	Nut M8	2
7	73842	Air cleaner mounting clamp	1
8	73826	Case, air cleaner	1
9	35670	Clip 70-90	3
10	73834	Air cleaner inlet connection pipe	1
11	73829	Air cleaner intake pipe	1
12	48646	Air cleaner connecting pipe	1
13	35747	Clip 52/76	1
14	47756	Pipe breather1	1
15	73752	Hoop 2	2
16	48252	Plastic screw	3
17	10183B	Bolt M6×16	2
18	48647	Intake hose cover	1



Ref. No.	Part No.	Description	Qty.
1	35670	Clamp 80	4
2	48007	Rubber joint air shroud 1, CVT	1
3	48648	Air shroud 1, CVT	1
4	26339	Rubber joint air shroud 2, CVT	1
5	48009	Air shroud 2, CVT	1
6	11495	Bolt M6×16	2
7	11233	Nut M6	1
8	48011	Clamp air shroud 2, CVT	1
9	11241	Bolt M6×30	1
10	48650	Intake hose cover	1
11	26760	Plastic screw	3



Ref. No.	Part No.	Description	Qty.
1	48037	Gasket, exhaust pipe	1
2	10882	Nut M8	3
3	48036	Pipe, exhaust	1
4	47555	Oxygen sensor	1
5	35370	Joint	1
6	62368	Spring bolt	2
8	62369	Spring	2
10	48038	Muffler	1
11	48040	Soft rubber connection	2
12	11030	Bolt M8×35	2
13	11261	Bolt M8×68	1
14	48042	Spacer 11.7×46	1
15	48043	Wire washer	2
16	11647	Bolt M10×1.25×70	1
17	48041	Connection block	1
18	11287	Nut M10	1
19	48039	Cover, muffler	1
20	11792	Washer 6	4
21	11019	Washer 6	7
22	11858	Bolt M6×16	4
23	26364	Washer, muffler	1
24	11320	Bolt M6×16	3
25	26458	Tail pipe	1
26	26363	Fire protection network	1
27	73838	Pipe hanger	1
28	73839	Septum, pipe hanger	1
29	11045	Bolt M8×40	1



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