

352cc UTV Camo/Sand/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

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

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

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

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

Important Safety Notice

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

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

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



CAUTION

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

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

A UTV can be hazardous to operate.

A UTV handles differently from other vehicles including motorcycles and cars. A collision rollover can occur quickly, even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.



WARNING

This indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

1. Read this manual and all labels carefully and follow the operating procedures described.
2. Never operate a UTV without proper instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized UTV dealer to find out about the training courses nearest you.
3. Never allow anyone who is not an adult to operate this UTV.
4. Never permit a guest to operate this UTV unless the guest has read this manual and all product labels, and has completed a certified training course.
5. Never operate a UTV without wearing an approved helmet that fits properly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
6. Never consume alcohol or drugs before or while operating this UTV.

7. Never operate at excessive speeds. Always travel at a speed which is proper for the terrain, visibility and operating conditions, and your experience.
8. Never attempt wheelies, jumps or other stunts.
9. Always inspect your UTV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
10. Always keep both hands on the handlebars and both feet on the footrests of the UTV during operation.
11. Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the UTV.
12. Never operate on excessively rough, slippery or loose terrain.
13. Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
14. Always have the UTV checked by an authorized dealer if it has been involved in an accident.
15. Never operate a UTV on hills too steep for the UTV or for your abilities. Practice on smaller hills before attempting larger hills.
16. Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
17. Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle which would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
18. Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the UTV. Never attempt to turn the UTV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.
19. Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to either side if pointed straight uphill. Turn the UTV around and remount, following the procedure described in this manual.
20. Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
21. Always be careful of skidding or sliding. On slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
22. Avoid operating the UTV through deep or fast flowing water. Avoid water which exceeds the recommended maximum depth. Go slowly, balance your weight carefully avoiding sudden movements, maintain a slow and steady forward motion, do not make sudden turns or stops, and do not make sudden throttle changes.

23. Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary apply them lightly several times to let friction dry out the pads.
24. Always be sure there are no obstacles or people behind you when you operate in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
25. Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
26. Never modify a UTV through improper installation or use of accessories
27. Never exceed the stated load capacity for a UTV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

2. Understanding Warnings



WARNING

This is an ADULT VEHICLE ONLY: not a toy. READ AND UNDERSTAND WARNINGS AND OWNER'S MANUAL BEFORE OPERATION.



CAUTION

KNOW YOUR VEHICLE BEFORE YOU BEGINNING RIDING!

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



NOTICE

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

Safety alert

Warnings identify special instructions or procedures which, if not correctly followed, could result in personal injury or loss of life. Read all warnings in this manual carefully. Follow their instructions to remain safe.

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

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Your safety is involved!



WARNING

Indicates a potential hazard which could result in severe injury or death.



CAUTION

Indicates a potential hazard which may result in minor personal injury or damage to the UTV.

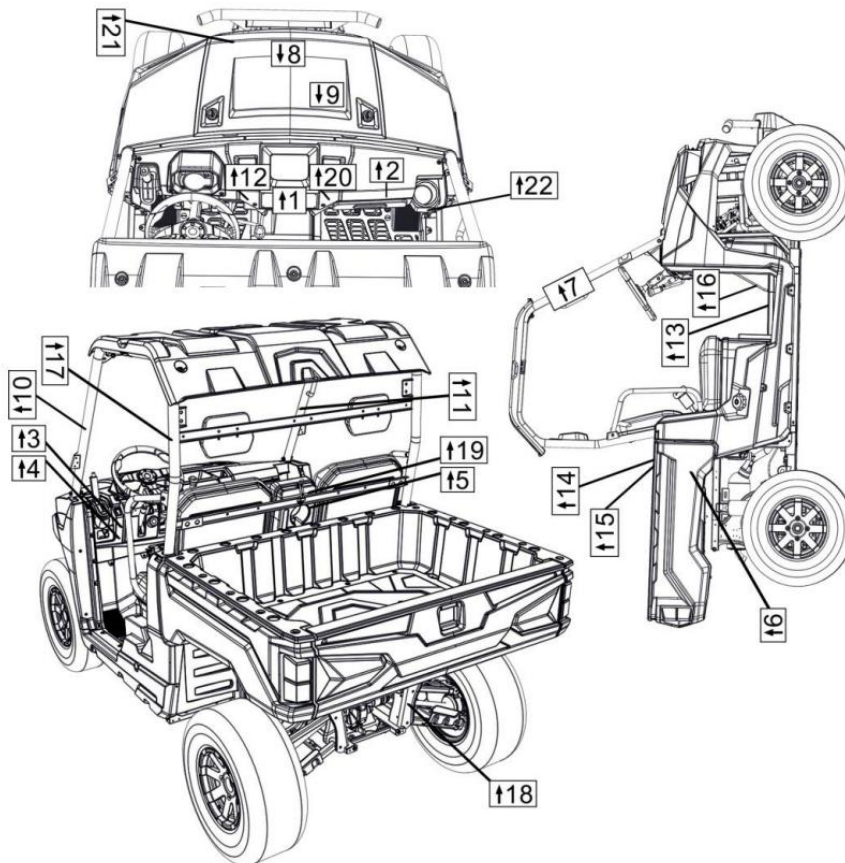


CAUTION

Indicates a situation that can result in damage to the machine.

The word "NOTE" in this manual will alert you to key information or instructions.

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.

⚠ 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 wheel or handhold where equipped. Stay completely inside the vehicle.

Drive Responsibly

Avoid loss of control and rollovers.

- Avoid abrupt maneuvers, sideways sliding, 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).

off-highway vehicle access) -collision with cars and trucks can occur.

- Do not exceed seating capacity one passenger.

LOCATE AND READ THE OWNER'S MANUAL FOLLOW ALL INSTRUCTION AND WARNINGS. RESERVED FOR REFERENCE TO OTHER SOURCE OF SAFETY INFORMATION



T02882

WARNING

Heebper 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)

T02883

NOTE: Maximum tire pressure: Front :12psi(83kPa) Rear :12psi(83kPa)

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

NOTE

Check engine oil every 500 kilometers (310 miles)

T02744

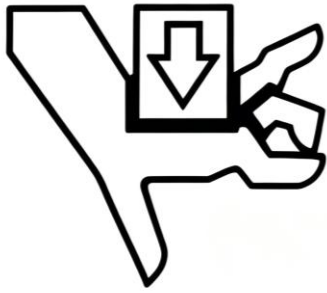
NOTE

Do not use cup holders while riding in rough conditions.

T02745



WARNING



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

T02051



WARNING

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

T02049



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.

T02885



CAUTION

Engine/Radiator Coolant Only Ethylene Glycol and Water Mix.

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

T02022



WARNING



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



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



WARNING

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

T02057

NO STEP

NOTE



Be care of side punch.

T02793

⚠ WARNING



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

T02056

⚠ 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 far forward as possible. Top-heavy loads increase the risk of overturn.



⚠ WARNING

Always dismount the canopies while the vehicles are transported in a trailer on the expressway so as to avoid personal injury or causing serious traffic accident.

T02628

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 spinning. 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.

T0887

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

WARNING

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

T02886

WARNING

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

T02884

NOTE

Locate and read the owner's manual (VEHICLE RECOVERY ELECTRIC WINCH) follow all instruction and warnings .

T02799

NOTE

Do not use cup holders while riding in rough conditions.

T02893

4. Daily Pre-ride Inspection



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.

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

Item/Inspection procedure

1. Tire-check condition and pressures.
2. Fuel tank-fill the fuel tank to its proper level.
3. All brakes-check operation, adjustment and fluid level (includes auxiliary brake).
 - Brake pedal
Check for correct brake pedal free play. If the brake pedal free play is incorrect, have an authorized dealer adjust it. 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. Apply the brakes firmly for one minute. If there is any leakage, have the vehicle inspected by an authorized dealer.
 - Brake fluid level
 - Check the brake fluid level.

Add fluid if necessary.
 - Brake operation
4. 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.
5. Throttle/ Accelerator pedal-check for free operation, closing and free play. Check to see that the accelerator pedal operates correctly. It must operate smoothly and fully spring back to the idle position when released. Have an authorized dealer repair as necessary for proper operation.
6. Headlight / Taillight / Brake light— check operation of all indicator lights and switches.

7. **Wheels**— check for tightness of wheel nuts and axle nuts; Verify all axle nuts are fully tightened by cotter pins. Check balance/ damage/ run out. Have an authorized dealer repair/ replace if necessary. Check bearing assemblies for looseness/damage. Have an authorized dealer replace if damaged.
8. **Air cleaner element**— check for dirt; clean or replace.
9. **Steering**— check for free operation noting any unusual looseness in any area. 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.
10. **Loose parts** — visually inspect vehicle for any damaged components or loose nuts/bolts or fasteners. Always check the tightness of chassis fittings and fasteners before a ride. Take the vehicle to your dealer for correct tightening torque.
11. **Operator's and passenger's helmets, goggles and clothing.**
12. **Engine coolant**— check for proper level at the recovery bottle.
13. **Seat belts**— Check for proper operation and belt wear. 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. Clean off any dirt or mud which could affect operation. Have an authorized dealer repair as necessary for proper operation.

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 on the engine or exhaust pipe/muffler when refueling. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of 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 while moving may cause the vehicle to unexpectedly handle differently. This could distract the operator and increase the risk of losing control and an accident.

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 can't find or solve the problem yourself.



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

Attempting to brace a tipping vehicle with your arms or legs creates crushing hazards.

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 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.

 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 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.

 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.



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.



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.



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.



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.



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

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

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

A headlight bulb is hot when it is on and immediately after it is turned off.

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.



WARNING

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.



WARNING

Potential hazard

Operating/ riding this UTV without wearing an approved 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.



WARNING

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.



WARNING

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.



WARNING

Potential hazard

Attempting wheelies, jumps and other stunts.

What can happen

Increases the chance of an accident, including an overturn.

How to avoid the hazard

Never attempt stunts, such as wheelies or jumps.



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 the UTV on hills steeper than 15%.

 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 when turning on any hill. Avoid crossing the side of a steep hill if possible. When crossing the side of a hill: Always follow proper procedures as described in the owner's manual. Avoid hills with excessively slippery or loose surfaces.



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 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.

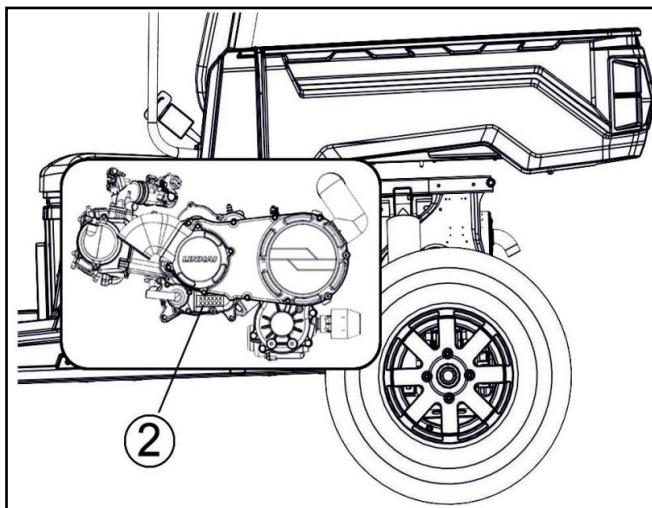
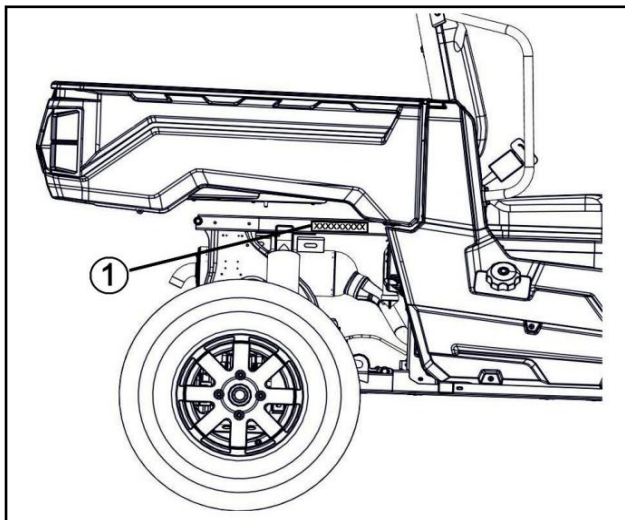
 WARNING

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)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

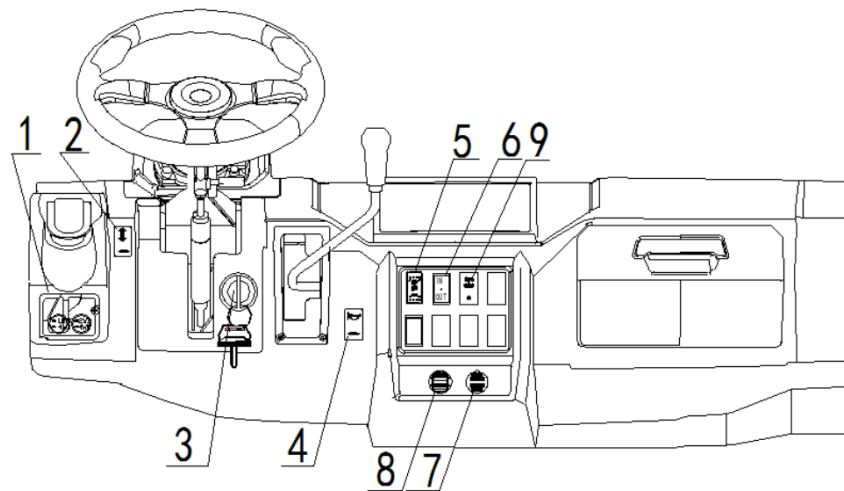
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The vehicle frame and engine serial numbers are important for model identification when registering your vehicle, obtaining insurance or whenever replacement parts are required. In the event your vehicle were stolen these numbers are essential to the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

7. Control Panel Functions

Electrical switches

Switch on panel



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

2.Turn Signal Lamp Switch

3.Main Switch

4.Horn Switch

5.Hi/ Lo Beam Switch

6.Tractor Switch

7.Accessory Socket (Optional)

8.USB Charger

9.Rear Diff Lock Switch

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 when the vehicle has stopped.

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



CAUTION

Do not switch on 4WD if the rear wheels are spinning. This may cause severe machine damage. When you switch on 4WD, the button will stay in 4WD position but 4WD mechanism may maybe still disengaged. Always apply 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 "START" position with the engine running, or damage to the electric starter can result.

4. Horn Switch

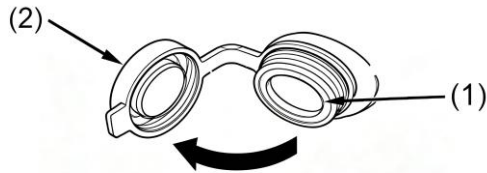
5. Hi/ Lo Beam Switch



WARNING

Turn on the high-beam headlight. Use caution and drive at reduced speeds in conditions of reduced visibility such as fog, rain and darkness.

6. Accessory Socket (Optional)



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 rated capacity is DC 12V, 120 Watts (10A) 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.

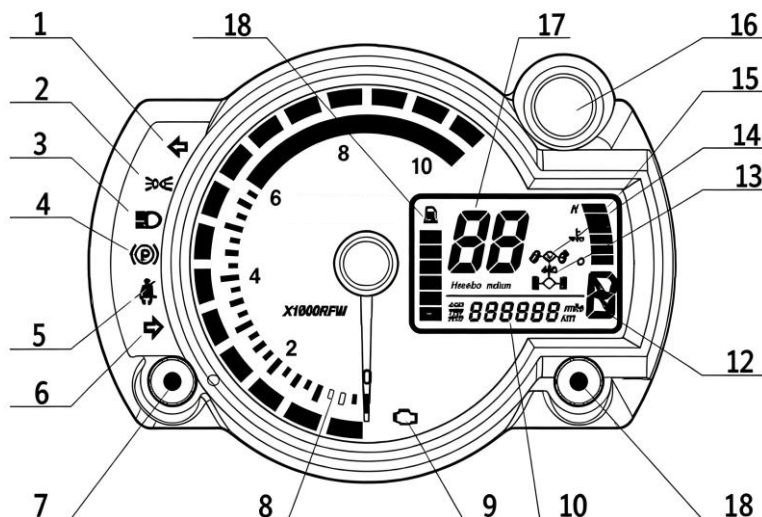
7. USB Charger



CAUTION

USB socket can output: 5V 600mA, it can charge devices such as mobile phones. The device must not be charged until the engine is working properly, otherwise it may damage the device. When you are done using an accessory, unplug it, and cover the socket with the cap. When cleaning the UTV, be careful not to clean the accessory.

LCD METER



1	Turn Left Indicator Light	10	The Odometer and Engine Working Hour Counter
2	Position Lamp Indicator	11	Km/ Mile Selector
3	High Beam Indicator Light	12	Gear Position Indicator
4	Parking Brake Indicate Lamp	13	2WD/4WD Indicator
5	Safety Belt Lamp	14	Front Differential Lock Indicator
6	Turn Right Indicator Light	15	Coolant Temperature Meter
7	ODO/TRIP/ Engine Working Hour Selector	16	Dome Lamp Indicator
8	Engine RPM Meter	17	Speedometer
9	MIL Indicator	18	Fuel gauge Indicator

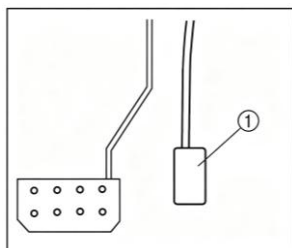
WARNING

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

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.



1. Accelerator pedal

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.

! WARNING

Potential hazard

Malfunction of the accelerator pedal.

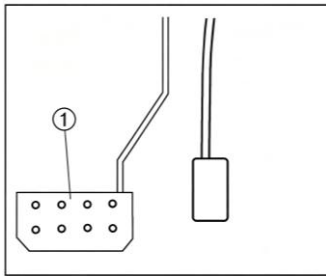
What can happen

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



1. Brake pedal

Press the brake pedal to slow or stop the vehicle.

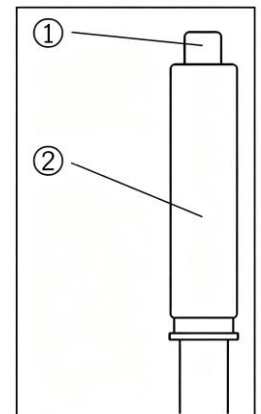
! WARNING

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.

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



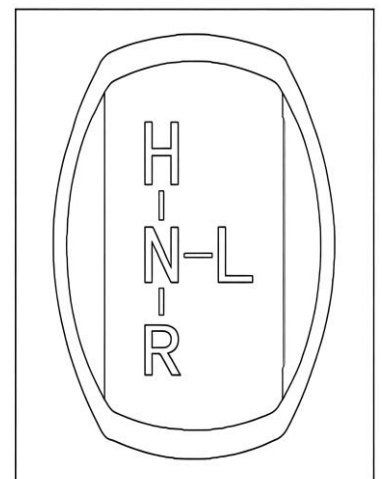
Automatic transmission gear selector operation

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.

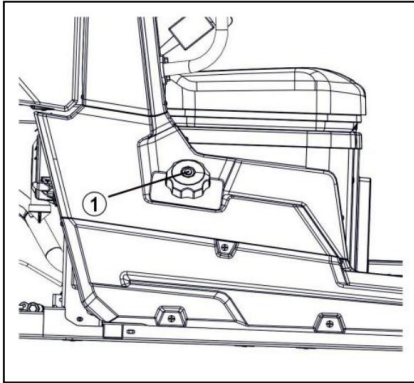
What can happen

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

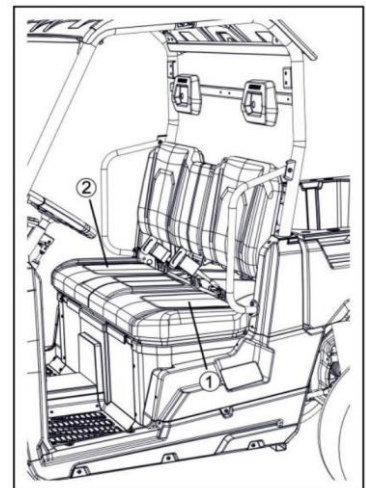
Remove the fuel tank cap by turning it counterclockwise.

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

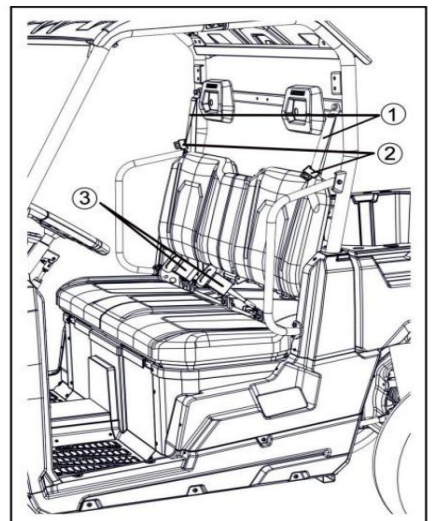
A loose seat.

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.

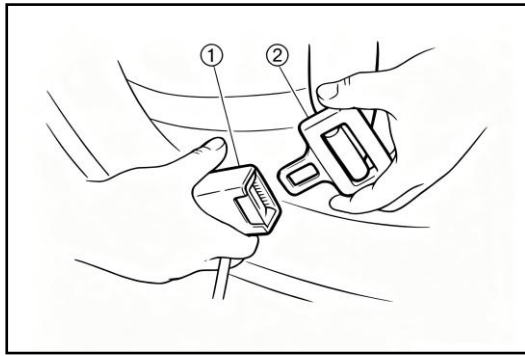


Seat belts

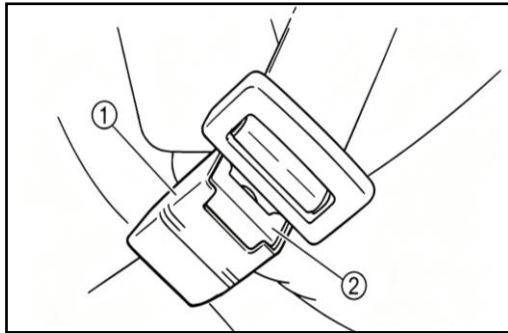
1. Seat belt (X2)
2. Latch plate (X2)
3. Buckle (X2)

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

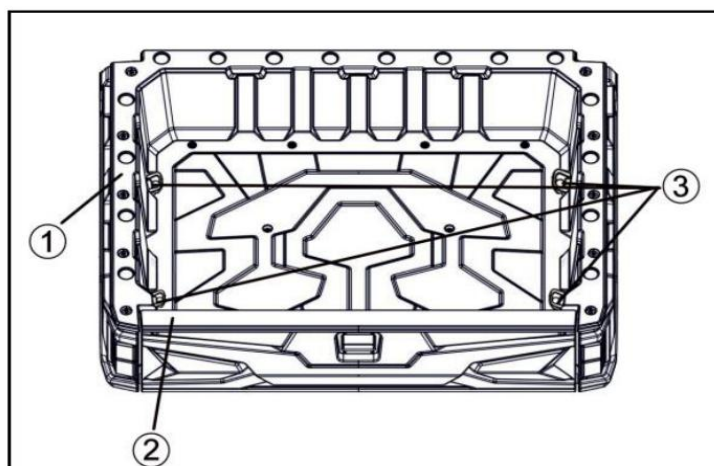
Always wear your seat belt when riding in the vehicle. Be sure the seat belt is close-fitting across your hips and chest and is latched securely.



CAUTION

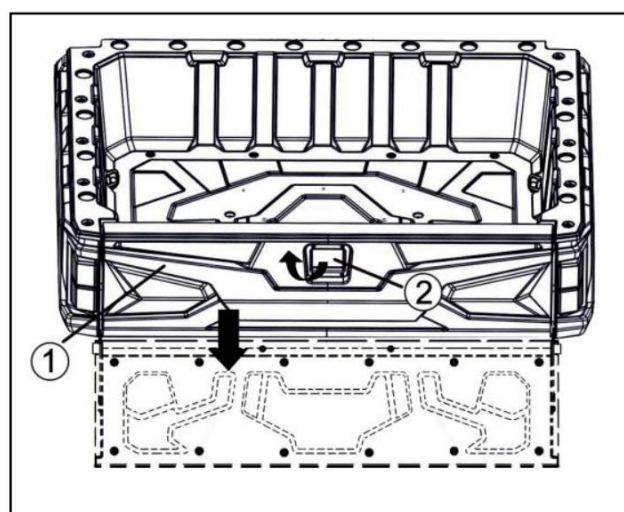
To protect from damage, do not put metal products, like tools or sharply edged products directly in the glove compartment. If they must be stored, wrap them in appropriate cushion material.

Cargo bed



- 1. Cargo bed
- 2. Tailgate
- 3. Cargo hook (X4)

Opening and closing the tailgate



- 1. Tailgate
- 2. handle

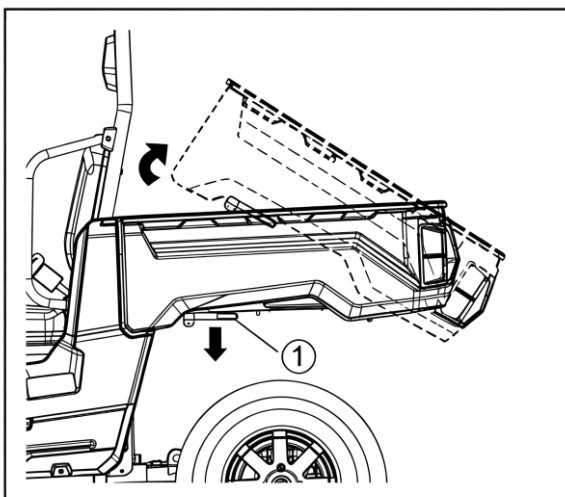
To open

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.

! 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 (330 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

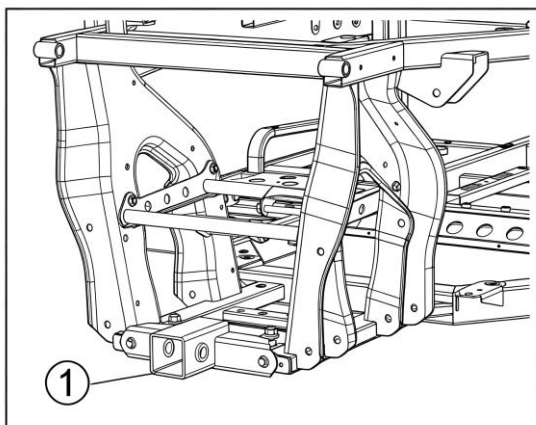
What can happen

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.

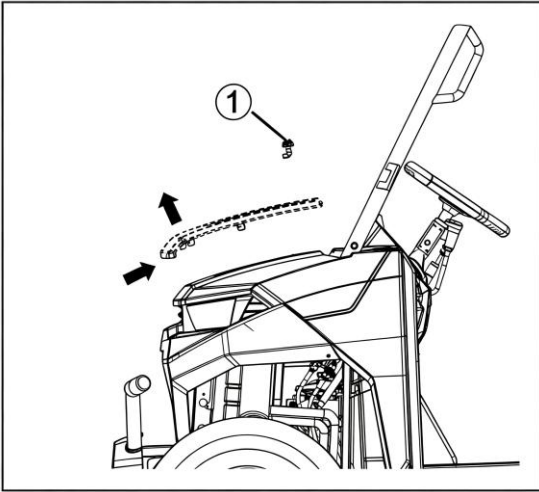
Trailer hitch bracket



1.Trailer hitch bracket

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

Hood



1. latch (X2)

To open

Unhook the hood latches, pull down the hood and then take it out.

To close

Put the hood in place, push it up and then lock the latch.

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.

Engine cooling system

Coolant Level

The recovery bottle, located to 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.

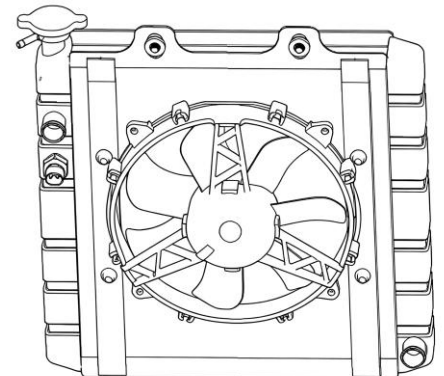
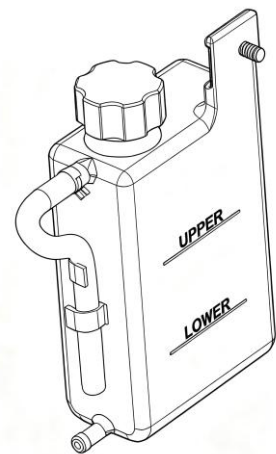
NOTE: Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

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 the tank neck.
- If you get gasoline on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Gasoline powered engine exhaust fumes are poisonous and can cause loss of consciousness and death in a short time.

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

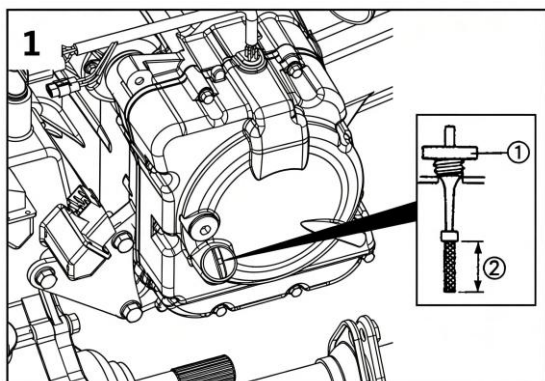
Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

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:

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

CAUTION

Use only SAE 15W/40 SG OIL. 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 display "N". If the Gear Position Indicator does not display "N", ask a dealer to inspect the electric circuit. The engine can be started in any gear if the brake is applied. However, it is recommended to shift into neutral before starting the engine.

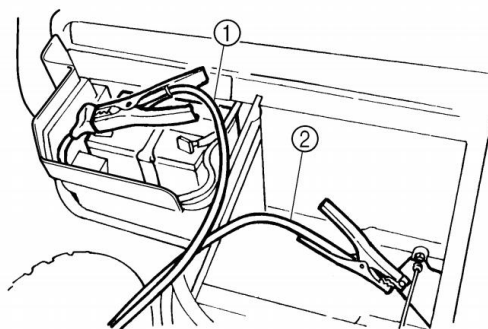
3. With your foot off the accelerator pedal, start the engine by turning the key to "⊗".

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. After the engine starts, 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

Break-in Period Instruction

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, 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:

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

MAXIMUM LOADING LIMIT

Cargo bed: 150 kg (330 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)

- Choose a trailer hitch drawbar designed for use with a 5 cm (2 in) receiver.
- 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.
- 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.
- Tie down cargo securely in the trailer. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- 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.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and handling of the vehicle.

Use a safety chain

- A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
- Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- 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

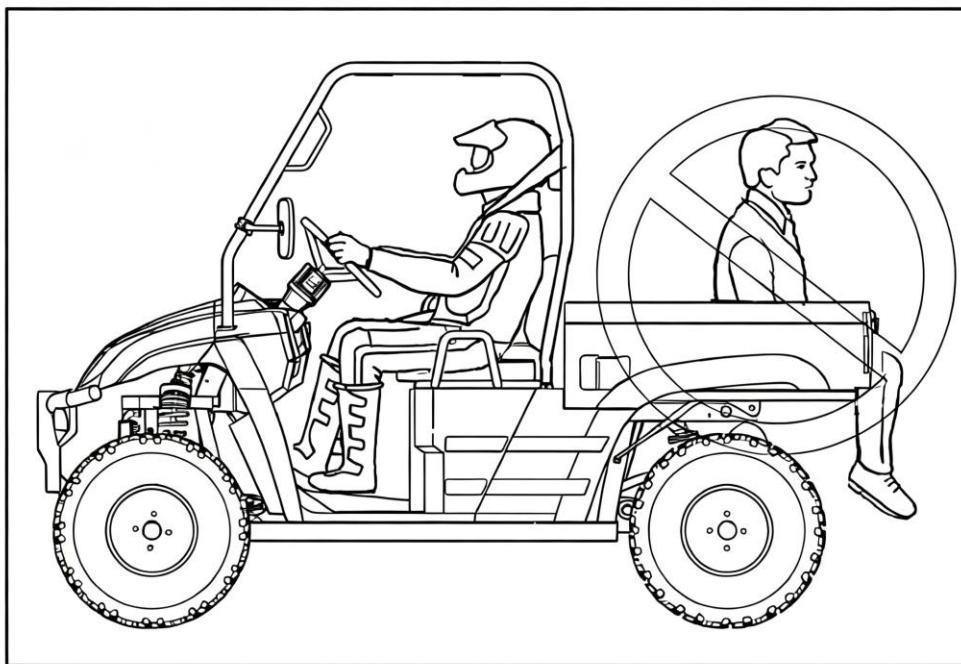
Carrying a passenger in the cargo bed.

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 activates at 7000 rpm. This may cause excessive fuel to build up in the exhaust, which can then be ignited by the catalyst in the muffler, and MAY RESULT IN THE 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

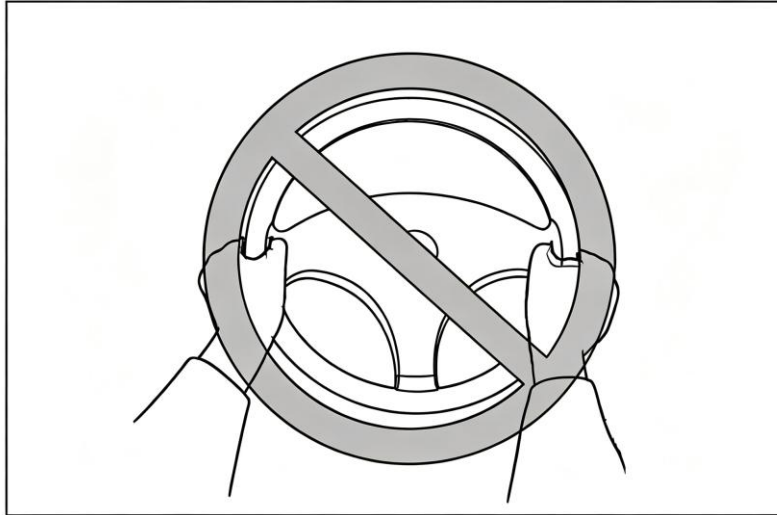
You should become familiar with the performance characteristics of the vehicle in a large, flat area that is free of obstacles and other vehicles. Practice control of the accelerator pedal, brakes, steering, and drive select lever. Drive first at slow speed and become comfortable at that speed before 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.

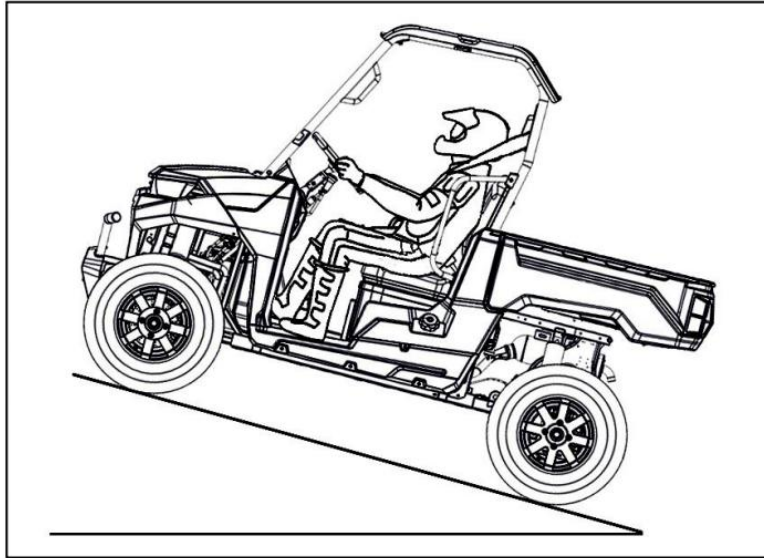
What can happen

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 the vehicle on hills steeper than 15%. Do not drive across the face of a hill. Go straight up the hill. Practice on smaller hills before attempting large hills.



15% Maximum

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 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 your machine is serviced as outlined in the maintenance chart see "16.maintenance". The following areas need special attention: Engine oil, transmission oil, rear gear case, 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

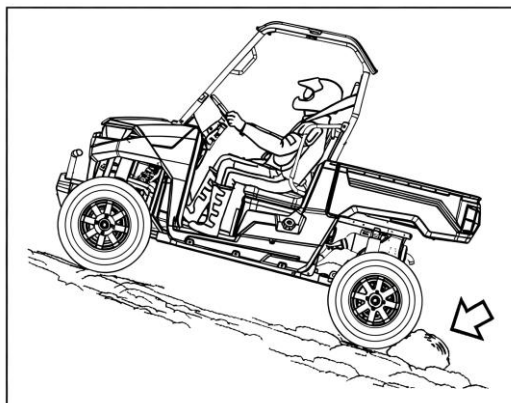
Parking on a hill or other incline.

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; cause the system 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 UTV, the approximate gear ratio difference between high and low range is 1:2.05. 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 15 minutes 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. Loosen the nuts and remove the bracket.
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.

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 bracket and tighten the nut.
5. Verify that cables are properly routed.

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 18Ah 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 Noise Control System Prohibited!

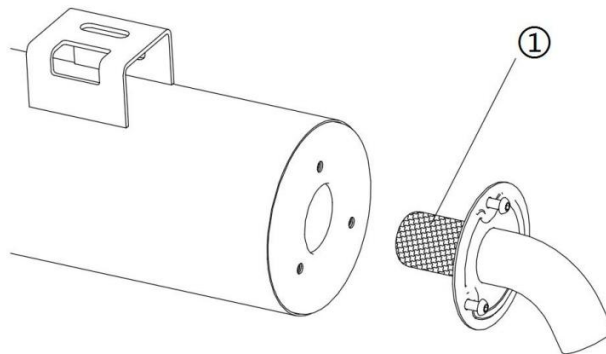
Caution: Exhaust System Components are Very Hot During and After Use of UTV.

- Do Not Touch Exhaust System Components. Serious Burns Can Result.
- Be Especially Careful When Traveling Through Tall Grass. The Potential for Fire Exists.

Spark Arrestor

The Exhaust Pipe Must Be Periodically Purged of Accumulated Carbon as Follows:

1. Remove The 3 Bolts And Remove The Arrestor ① From The End Of The Muffler.
2. Use a Non-Synthetic Brush to Clean the Arrestor Screen. A Synthetic Brush May Melt If Components Are Warm. If Necessary, Blow Debris from The Screen with Compressed Air.
3. Inspect The Screen for Wear and Damage. Replace The Arrestor If Damage Is Found.
4. Reinstall The Arrestor.



WARNING

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

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

Catalyst

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

WARNING

The engine rpm limiter activates at 7000 rpm. This may cause excessive fuel to build up in the exhaust, which can then be ignited by the catalyst in the muffler, and MAY RESULT IN THE MUFFLER OVERHEATING AND A FIRE RISK. Always reduce the throttle when the engine reaches top rpm to avoid engine popping.

WARNING

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

16. Maintenance



WARNING

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 month 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.

Mark	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
Ⓓ	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

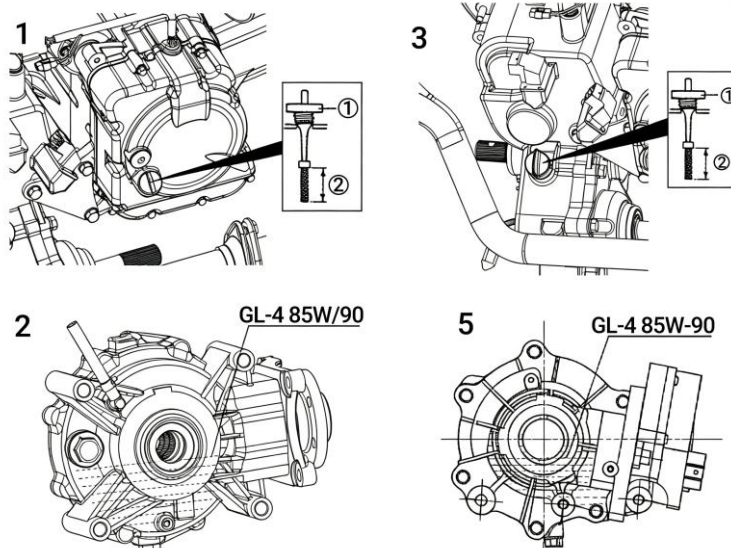
Mark	Item	Hours	When	Remarks
•	Air Filter-Main Element	Weekly	Weekly	Inspect –Replace if necessary
	Battery	20 hrs	Monthly	Check/clean Terminals; check fluid level
Ⓓ	Brake pad wear	10 hrs	Monthly	Inspect periodically
•	Rear Gear case Oil	100 hrs	Monthly	Check monthly and change annually
	Front Gear case Oil	100 hrs	Monthly	Check monthly and change annually
•	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.
	Engine breather hose	100 hrs	6 months	Inspect
Ⓓ	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
Ⓓ	Drive belt	50 hrs	6 months	Inspect, replace if necessary
Ⓓ	Toe adjustment	As required	As required	Periodic inspection, adjust when parts are replaced
Ⓓ	Front Axle (CV Joints)	10 hrs	Monthly	Check for/ Axle boots/ looseness/ damage.
Ⓓ	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	50 hrs	6 months	Check for looseness/ damage.
•	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.
	Engine breather hose	100 hrs	6 months	Inspect
Ⓓ	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
Ⓓ	Drive belt	50 hrs	6 months	Inspect, replace if necessary
Ⓓ	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.
Ⓓ	Toe adjustment	As required	As required	Periodic inspection, adjust when parts are replaced
Ⓓ	Front Axle (CV Joints)	10 hrs	Monthly	Check for/ Axle boots/ looseness/ damage.

Mark	Item	Hours	When	Remarks
Ⓓ	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	50 hrs	6 months	Check for looseness/ damage.
•	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.
	Engine breather hose	100 hrs	6 months	Inspect
Ⓓ	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
Ⓓ	Drive belt	50 hrs	6 months	Inspect, replace if necessary
Ⓓ	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.
Ⓓ	Toe adjustment	As required	As required	Periodic inspection, adjust when parts are replaced
Ⓓ	Front Axle (CV Joints)	10 hrs	Monthly	Check for/ Axle boots/ looseness/ damage.
Ⓓ	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	50 hrs	6 months	Check for 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
Ⓓ	Ignition Timing	100 hrs	12 months	Inspect and adjust as needed
Ⓓ	Fuel System	50 hrs	6 months	Check for leaks at tank cap, lines, fuel valve, filter, and carburetor. Replace lines every one year
	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
Ⓓ	Clutches (drive and driven)	25 hrs	3 months	Inspect, clean
	Engine mounts	25 hrs	3 months	Inspect
Ⓓ	Valve clearance	100 hrs	12 months	Inspect/adjust
Ⓓ	Brake fluid	200 hrs	24 months	Change every two years
	Headlight Aim	As required	As required	Adjust if necessary
•	Front Suspension	50 hrs	6 months	Inspect-lubricate, tighten fasteners

Mark	Item	Hours	When	Remarks
•	Rear Suspension	50 hrs	6 months	Inspect, tighten fasteners
	Spark Plug	100 hrs	12 months	Inspect-replace if necessary
Ⓓ	Ignition Timing	100 hrs	12 months	Inspect and adjust as needed
Ⓓ	Fuel System	50 hrs	6 months	Check for leaks at tank cap, lines, fuel valve, filter, and carburetor. Replace lines every one year
Ⓓ	Fuel Filter	100 hrs	12 months	Replace annually
	Radiator	100 hrs	12 months	Inspect/clean external surface
	Cooling System hoses	50 hrs	6 months	Inspect/replace if necessary
	Spark arrestor	10 hrs	monthly	Clean out-replace if necessary
Ⓓ	Clutches (drive and driven)	25 hrs	3 months	Inspect, clean
	Engine mounts	25 hrs	3 months	Inspect
Ⓓ	Valve clearance	100 hrs	12 months	Inspect/adjust
Ⓓ	Brake fluid	200 hrs	24 months	Change every two years
	Headlight Aim	As required	As required	Adjust if necessary

Lubrication Recommendations

	Item	Lube Rec	Method	Frequency
•	1. Engine Oil	SAE 15W/40SG	Add to proper level on dipstick	Check level daily
	2. Brake Fluid	DOT 3 Only	Maintain level Between fill lines. See 7. Control Panel Functions	As required; change every two years or 200 hours
	3. transmission fluid	SAE 80W/90GL5	See "16.MAI-NTENANCE/Transmission Lubrication"	Change annually or at 100 hours
	4. Rear Gear case oil	SAE 80W/90GL5	See "16.MAI-NTENANCE/Rear Gear-case Lubrication"	Change annually or at 100 hours
	5. Front Gear case oil (only for 4WD)	SAE 80W/90GL5	See "16.MAI-NTENANCE/Front Gear-case Lubrication"	Change annually or at 100 hours



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

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			

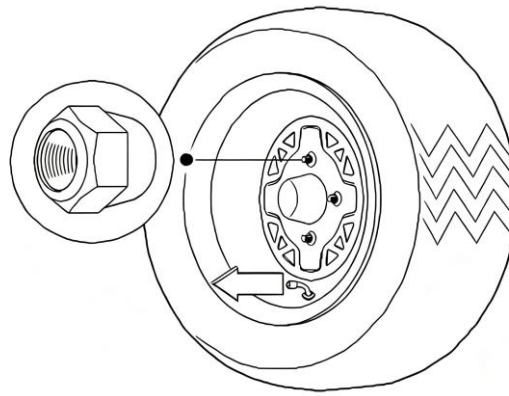
The following items should be checked occasionally for tightness; or if they have been loosened for maintenance service.

Wheel nut torque specifications

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

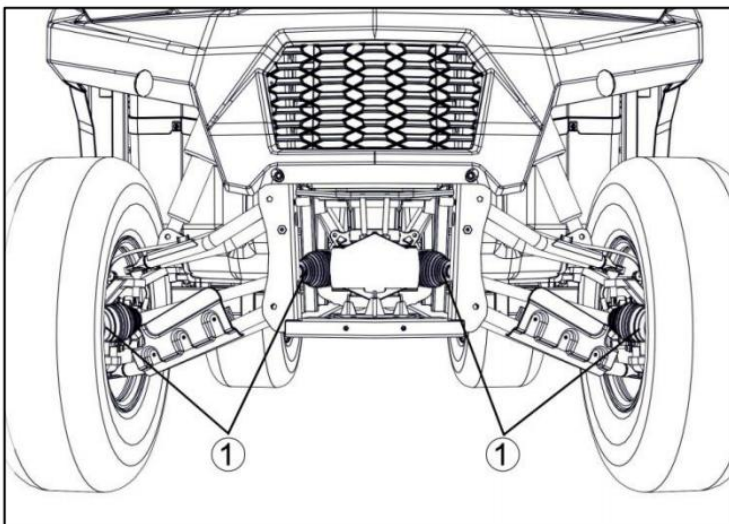


Front Rear

Tapered nuts: install with tapered side against wheel

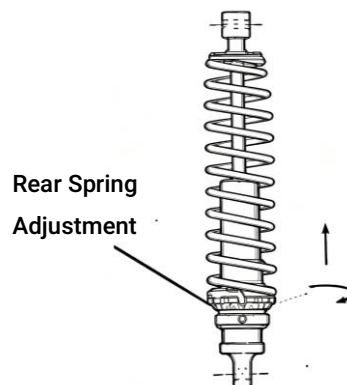
Axle boots

- 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.

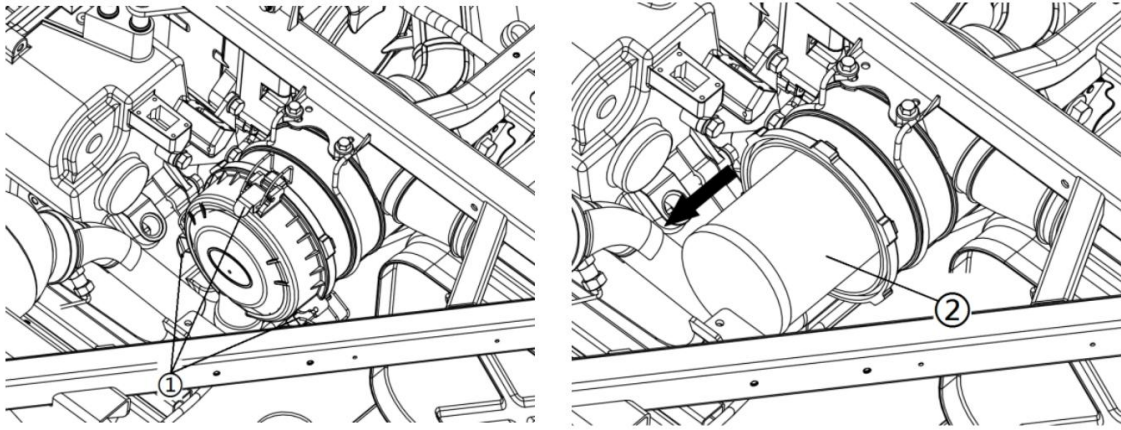


Rear spring adjustment

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. Disengage the three cover latches ①.
2. Unlatch the cover and carefully remove it from the air box.
3. Remove the filter ②.
4. Inspect the air box for oil or water deposits. Wipe away any deposits with a clean shop towel.
Note: If the filter has been soaked with fuel or oil it must be replaced.
5. Inspect the air filter and replace if necessary.
Note: DO NOT attempt to clean the air filter with compressed air.
6. Place the air filter into the air box and reinstall the air box cover.
Note: Make sure the tabs are properly positioned into the hinge. Ensure the O-ring is installed inside the lid properly.
7. Engage the cover latches.

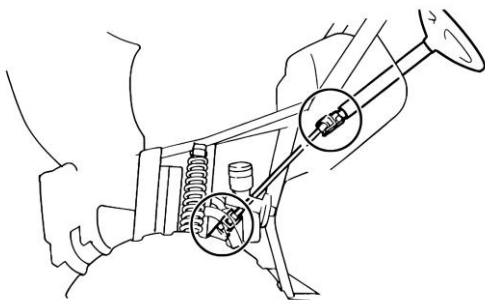
Steering

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. Checking routing of all cables, hoses, and wiring to be sure the steering mechanism is not restricted or limited. If any 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

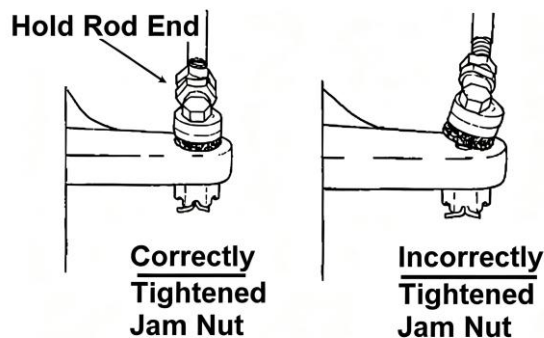
Do not attempt to adjust the tie rod for toe alignment. Severe injury or death can result from improper adjustment. Contact your dealer. He/she has the training and tools to make these adjustments.

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

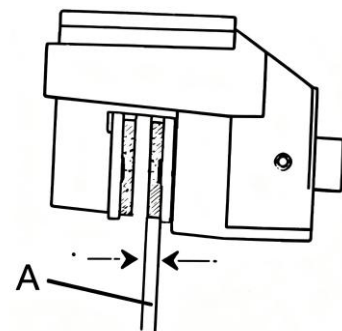
Front brake

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 which is activated 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 loosened.
- Check security and surface condition of the disc.
- Pads should be changed when friction material is worn to 3/64" (1mm).(A)

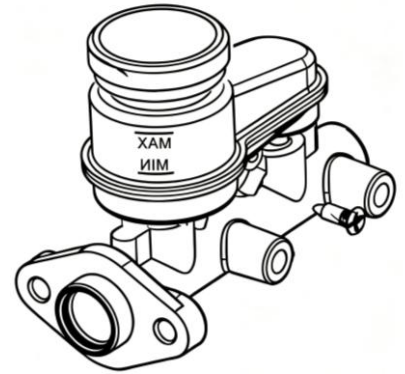


Rear brake

- The rear brake is a hydraulic disc type brake which is activated by the same pedal which activates 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 3/64" (1 mm).
- 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.



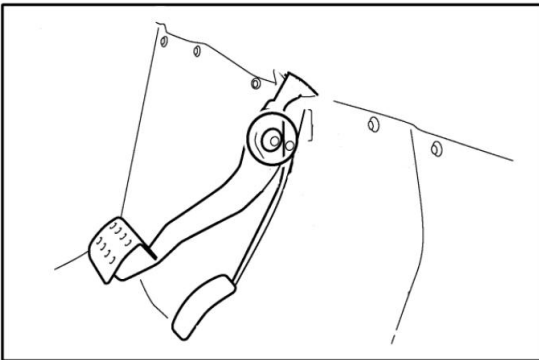
- The brake fluid reservoir is located under the hood.
- When checking the fluid level, make sure the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor braking performance.

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 adjuster on the lever.
2. Loosen the jam nut of the adjuster on the caliper.
3. Turn the adjuster (bolt) CW (clockwise) by hand until the pad touches 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 turn freely without dragging.
6. Turn the adjuster (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 turn freely without dragging and parking brake works properly.

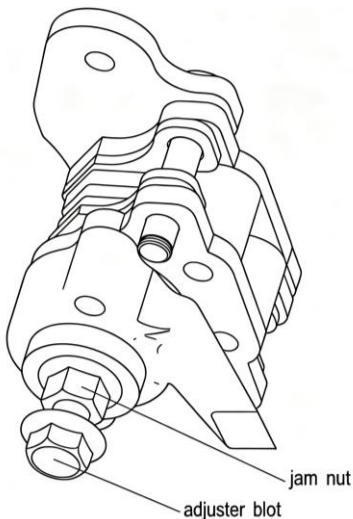


CAUTION

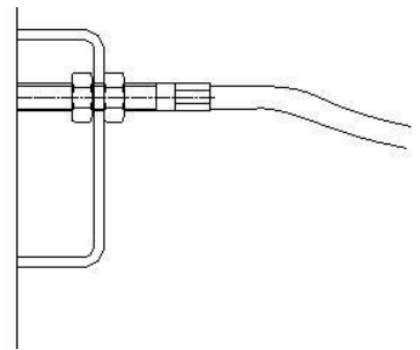
Don't overtighten the adjuster. The maximum free play is equal to one click of the parking brake lever.

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 turning the adjuster (nut) directly. But the adjust range is limited. Always do the procedure 1 to 8 when necessary.



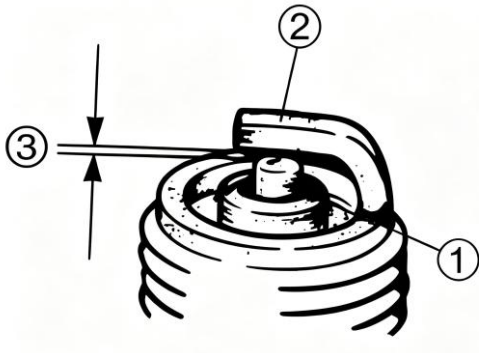
Parking Brake Indicator (light)
Switch Adjustment



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.

Standard spark plug DR8EA (NGK)

③ Gap:0.6-0.7mm

Spark plug removal and replacement

WARNING

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

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

Oil and filter change

Recommended engine oil

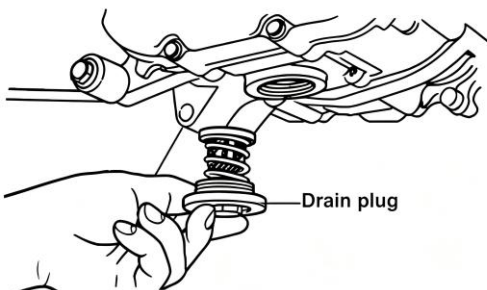
The recommended oil change interval is 30 hours, or every 3 months, whichever comes first. Suggested break in oil change is at 20 hours, or one month, whichever comes first. Severe use operation requires more frequent service. Severe use includes continuous duty in dusty or wet conditions, and cold weather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

WARNING

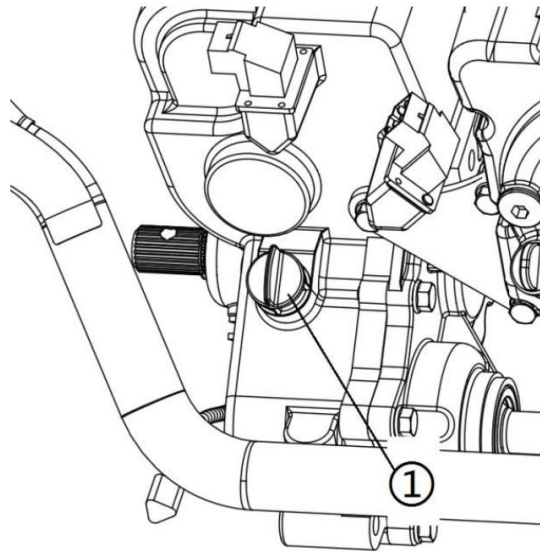
Oil may be hot. Do not allow hot oil to come into contact with skin as severe burns may result

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 14ft.lbs (19N.m)



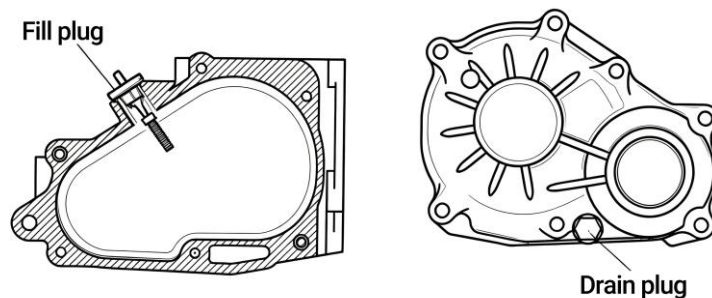
Transmission lubrication

The transmission fill plug is located on the right side of the machine. The transmission lubricant level should be checked monthly or 20 hours, whichever comes first. Transmission oil should be changed annually. With the UTV on a level surface, remove fill plug ① and check the lubricant level. The correct transmission lubricant to use is SAE GL-4 85W/90 Lubricant. And see "16.Maintenance; lubrication recommendations" for the correct fluid level.



Transmission oil changing procedure

1. Remove the four screws on the foot wall and gently pull outward for access.
2. Remove fill plug.
3. Remove transmission drain plug located on the bottom left hand side and drain the oil. Catch and discard used oil properly.
4. Clean and reinstall the drain plug torque to 14 ft.lbs. (20Nm)
5. Add the correct amount of SAE GL-4 85W/90 Lubricant until oil reaches the upper limit position of the oil level stick.
6. Check for leaks.
7. Reinstall foot wall and screws removed in step 1.



Rear gearcase lubrication



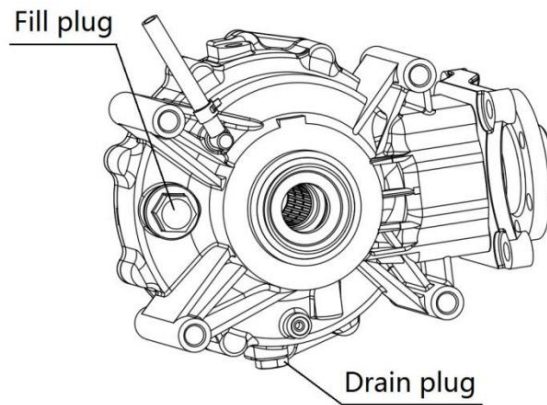
CAUTION

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 gear case 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 7 ounces (200ml) 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 (26~30 ft. lbs/35~40N.m).
5. Check for leaks.

Front gear case lubrication



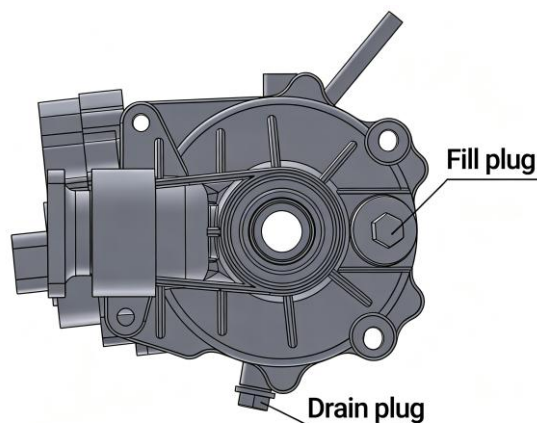
CAUTION

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

Oil changing procedure



1. Remove the drain plug. Catch and discard used oil properly.
2. Clean and reinstall the drain plug with a new sealing washer and tighten securely (14.8 ft. 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. Tighten securely (18.4 ft. 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 tires will affect vehicle handling which could cause an accident resulting in serious injury or death. Follow the safeguards listed below to prevent this type of situation.

Important safeguards

Maintain proper tire pressure according to charts below. Improper tire inflation may affect 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 detail on the mark of sidewall	See detail on the mark of sidewall

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.

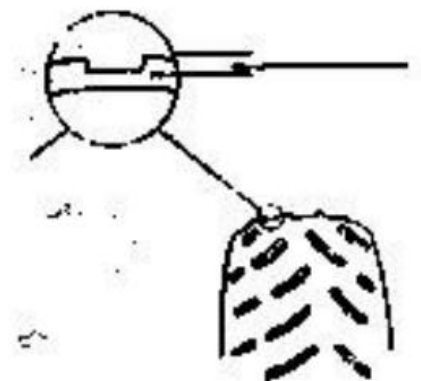
Wheel installation

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".

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

Tire Tread Depth Always replace tires when tread depth is worn to 1/8" (3mm) (1) or less.

Please refer to your Owner's Manual for tire specifications.



Lights



WARNING

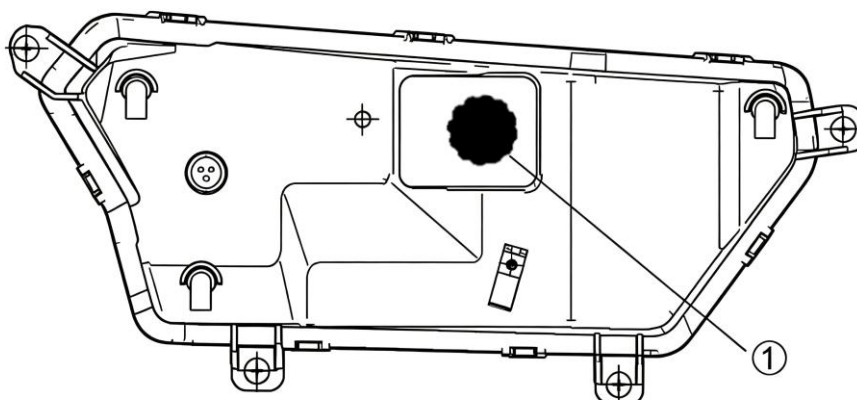
Keep your headlights and taillights clean. Poor light while riding can result in an accident causing severe injury or death.



CAUTION

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

Headlight Lamp Replacement and Adjust

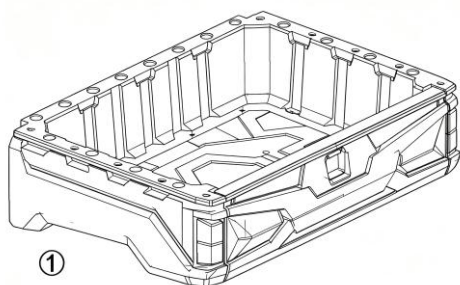


1. To lower headlight brightness cut-off line, turn adjusting bolt ① counterclockwise. And to raise brightness cut-off line, turn the bolt clockwise.

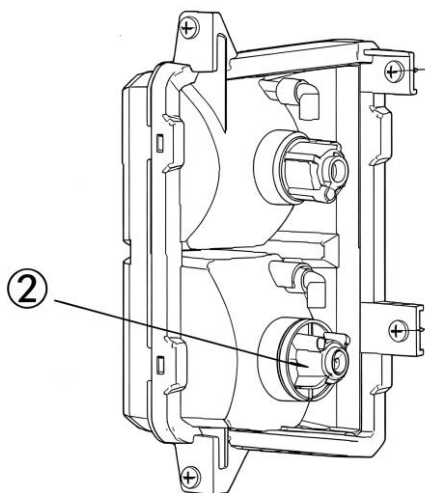
2. This type of headlight is LED, do not try to replace the bulb, if there is a problem with the headlight, please contact the dealer.

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. Loosen bulb base ②

3. Take off the Taillight / Brake Light.

4. Remove bulb and replace it with recommended bulb.

5. Test the Taillight/ Brake Light to see that it's working.

6. Re-install the Light.

CLEANING YOUR UTV

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

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.

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 on plastic surfaces.

Storage tips

CAUTION

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

Cleaning—Clean the UTV thoroughly.

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).

Oil add and filter change—Warm the engine and change oil and filter.

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

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

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

Check and lubricate cables/grease—Inspect all cables and lubricate.

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

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 securely using suitable straps or rope.
4. Always place the transmission in gear and lock the parking brake.

17. Troubleshooting

Is sues of improper operation driven clutch (CVT) burning

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 apply 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 engine at least 5 min, then with transmission in neutral, advance throttle to approx. 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning.
Slow and easy clutch engagement.	Fast, effective use of the throttle for efficient engagement.
Towing /Pushing at low RPM/low ground speed.	Use Low Range only.
Stuck in mud or snow.	Shift the transmission to Low Range carefully use fast, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.
Climbing over large objects from a stopped position.	Shift the transmission to Low Range carefully use fast, brief, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn.

Low battery

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



WARNING

This UTV is equipped with EFI system, If the battery is under 12 Volt, the engine will not start.

NOTE:

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

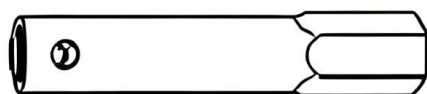
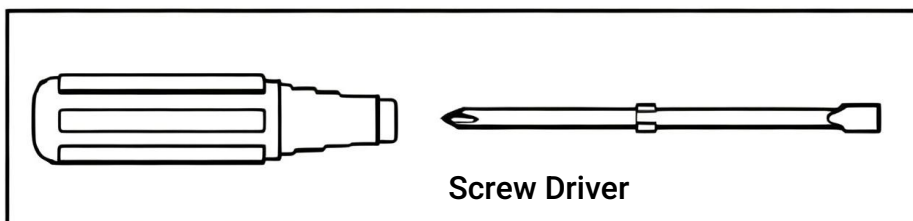
Problem/Issue	Parts Inspection		Possible Causes
Starting Failure / Hard Starting	Fuel System	Fuel tank	• Empty • Clogged fuel tank breather pipe • Deteriorated fuel or fuel containing water or foreign material • fuel filter clogging • the fuel pressure not correct
		Throttle body	• The connect not good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

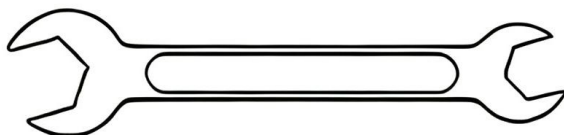
Problem/Issue	Parts Inspection	Possible Causes
	Valve system	• Improperly adjusted valve clearance
Over-Cooling	Cooling system	• Faulty thermostat • Faulty thermo switch
Over heating	Ignition system	• Improper spark plug gap • Improper spark plug heat range • Faulty igniter unit
	Compression system	• 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 • Oily 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

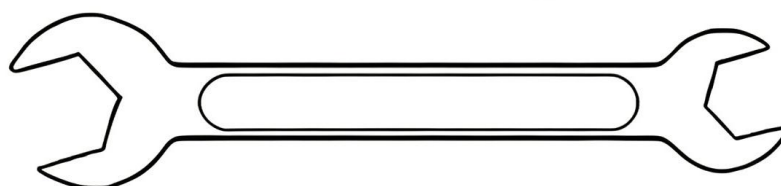
18. Tools



Spark Plug Wrench



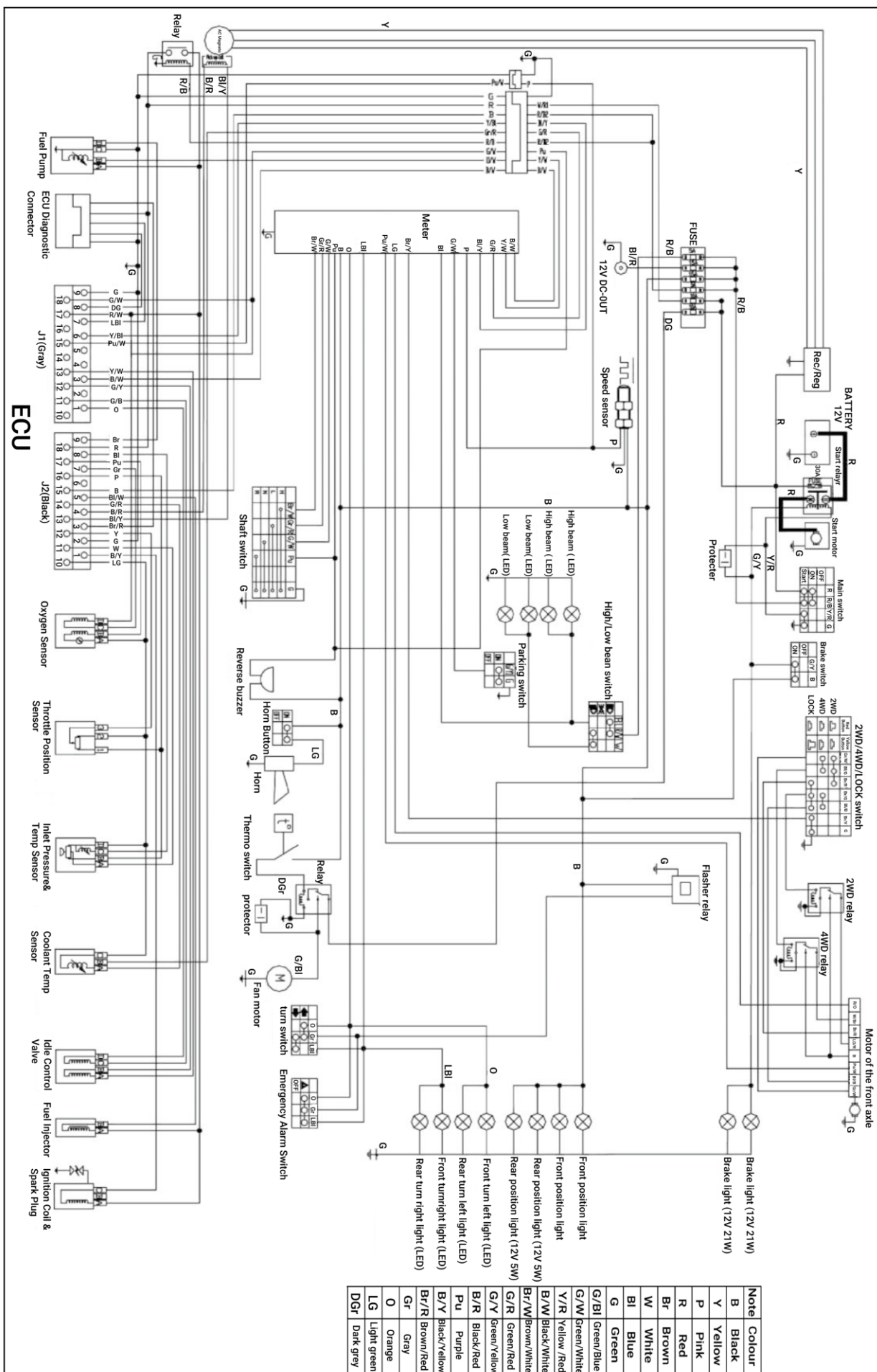
Wrench (8,10mm)



Wrench(12.,14mm)

19. Wiring Diagram

WIRING DIAGRAM



20. Specification

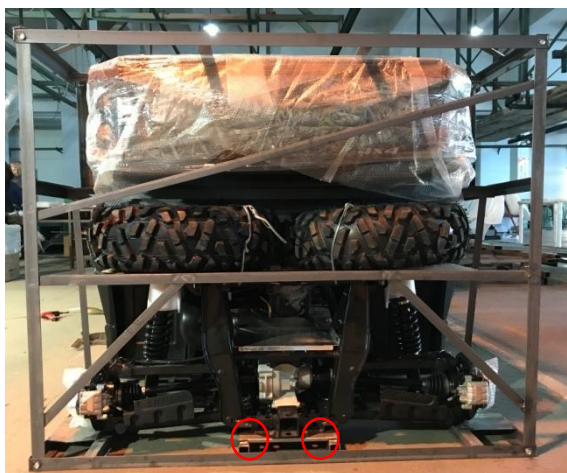
Capacities		
Model	ATU455	
L x W x H	2750×1460×1860mm	108×57.5×73in
Seat height	460 mm	18 in
Wheel Base	1890 mm	74 in
Turn Radius	Outer: 4900 mm	193 in
	Inner: 3700 mm	146 in
Ground Clearance	280 mm	11 in
Fuel capacity	26 L	6.9 US gal
Engine Oil Capacity	1.4L	1.48 US qt
Dry Weight	505kg	1114 lb
Cargo Bed Maximum load limit	150 kg	330 lb
Load Capacity (Combined Rider& Payload)	300 kg	661 lb
Gross Vehicle Weight (Maximum Technically Permissible Mass)	820 kg	1808 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 detail on the mark of sidewall	
Tire Pressure(rear)	See detail on the mark of sidewall	
Brake System		
Brake	Front Brake	Dual Hydraulic Discs
	Rear Brake	Single Hydraulic Disc
	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	
Front Shock Absorber Stroke	100mm	3.9 in
Rear Shock Absorber Stroke	110mm	4.3 in

Engine	
Engine Type	LH180MQ-3B 4 Stroke, Single Cylinder, SOHC
Bore x Stroke	80mm×70mm
Displacement	352cc
Starter System	Electric Starter
Engine Cooling	Liquid-Cooled
Lubrication System	Wet Sump
Ignition	EFI
Spark Plug Type	DR8EA (NGK)

Electrical Equipment			
Battery		12V 18AH	
Dipped beam		7.2W/7.2W x2 (LED)	
High beam		7.2W/7.2W x2 (LED)	
Front position light		12V 3W x2 (LED)	
Front direction light		12V 1.7W x2 (LED)	
Brake/ tail light		12V 21W x2	
Rear position light		12V 5W x2	
Rear direction light		12V 10W x2	
Specified fuses	Main fuse	30 A	On the start relay
	Backup fuse	30 A	
	Lighting system fuse	5A	In the fuse box
	Accessory socket fuse	15 A	
	Signaling system fuse	15 A	
	Fan-motor fuse	10A	
	ECU1	5A	
	ECU2	10A	

21. Assembly Instructions

1. Dismantle shipping frame



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

2. Install rear suspension struts



- Install the rear suspension struts (right & left) using two bolts① M10×1.25×62(Grade 9.8) and two nuts M10×1.25.

3. Install front suspension struts



- Install the front suspension struts (right & left) using two bolts① M10×1.25×57 (Grade 9.8) and nuts M10×1.25.

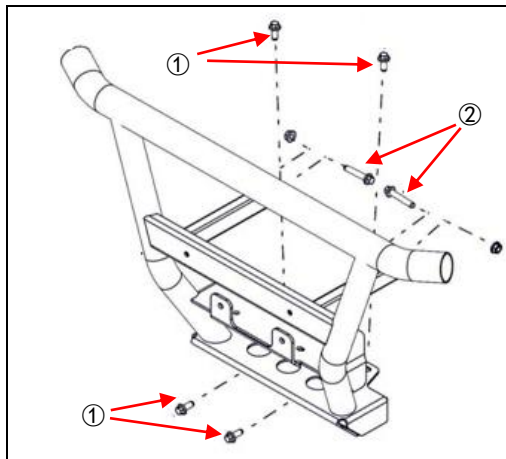
4. Install wheels



- Install all 4 wheels to the hubs using 16 lug nuts①.
Make sure the tapered end of the lug nut seats into the taper on wheel.

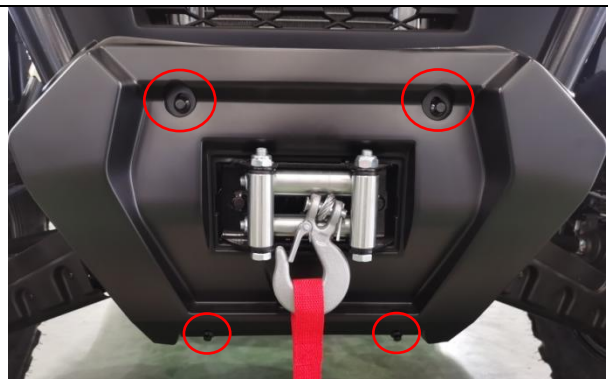
CAUTION: If wheels are improperly installed it could affect vehicle handling and tire wear.

5. Install the front bumper



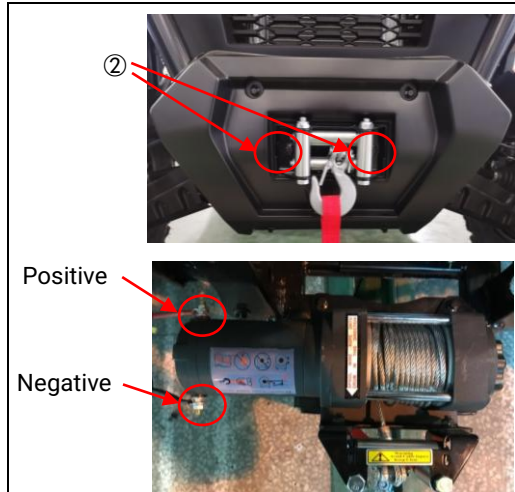
- Install the front bumper with four bolts ①M8x20,two bolts②M8x45, and two nuts M8.

6. Install the front bumper guard



- Install the front bumper guard using four bolts M6x16.

7. Install Winch



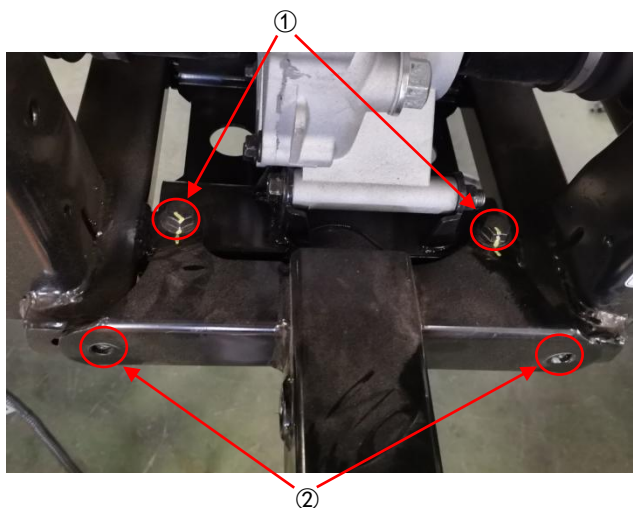
- Install the winch rollers using two bolts②M8x20 and two nuts M8.
- After installing the front winch, connect the positive and negative motor wires from the winch controller.

8. Install the muffler



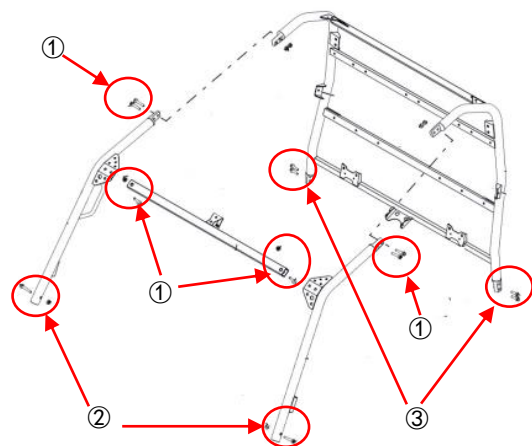
- Install the muffler on the exhaust with three bolts M6x16.

9. Install the tow hitch bracket



- Remove the bolt and nut at ① place on the frame.
- Install the tow hitch bracket using two bolts ① M10x1.25x57(Torque bolts ① to 50 Nm).
- Attach the two bolts ② M8x20.

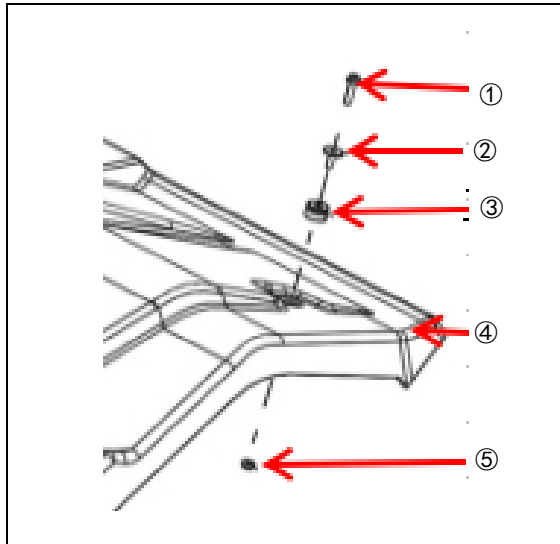
10. Install the roof frame



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

Note: The bolt direction should be from the inside to the outside on the front roof connection point.

11. Install the roof panel



- Install the roof panel④ on the roof frame using five bolts①M6x25,② five T-shaped liner bushing,③I - shaped rubber damper and ⑤five nuts M6.

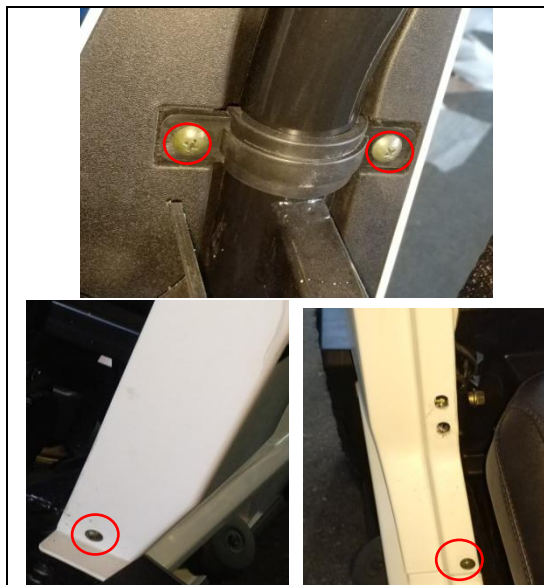
12. Install the seat belt buckle



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

Same procedure for left and right sides.

13. Install the upper panel



- Install the upper panel with four self tapping screws.

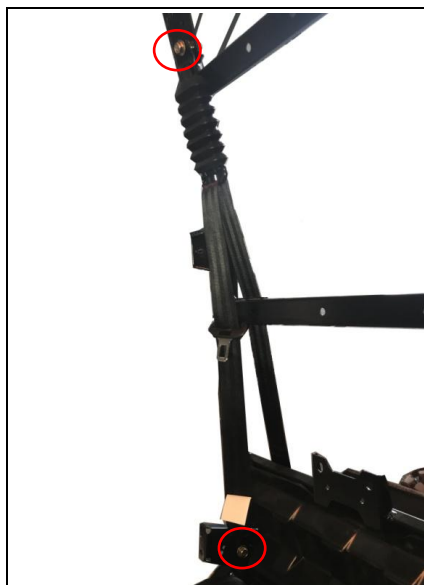
Same procedure for left and right sides.

14. Install the heat protection plate of seat



- Install the heat protection plate of seat on the roof frame using six bolts ①M6x20.

15. Route the seat belt



- Route 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.

16. Install the armrest pipe and safety net



①

②

③

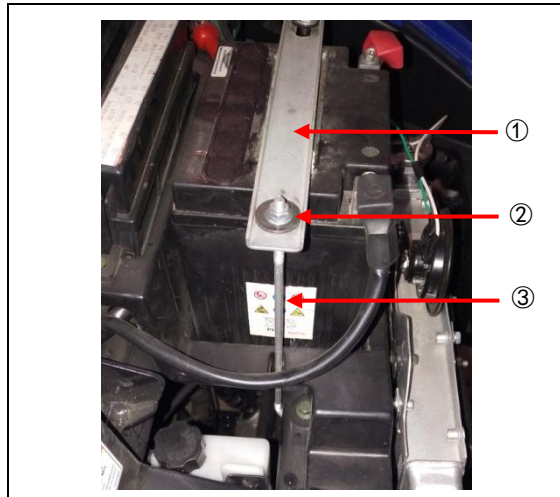


- Install the armrest pipe with three bolts ①M8x25.
- Install the safety net with bolt ②M6x16 and bolt ①M8x25.

Same procedure for left and right sides.

Note: The armrest and safety net share a common attachment point.

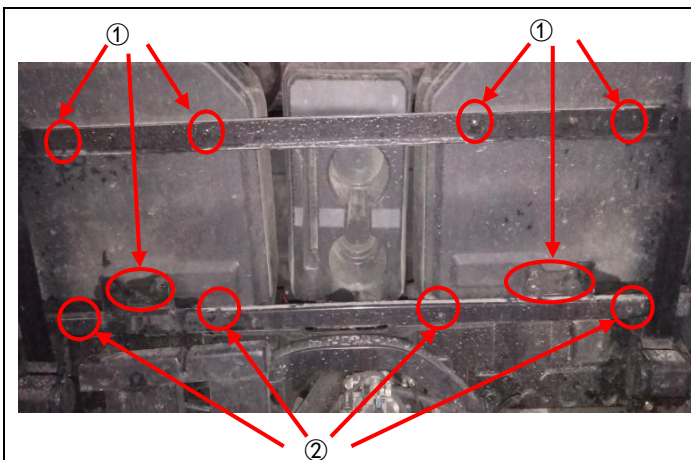
17. Install the battery



- 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.

18. Install the backrests and fender



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

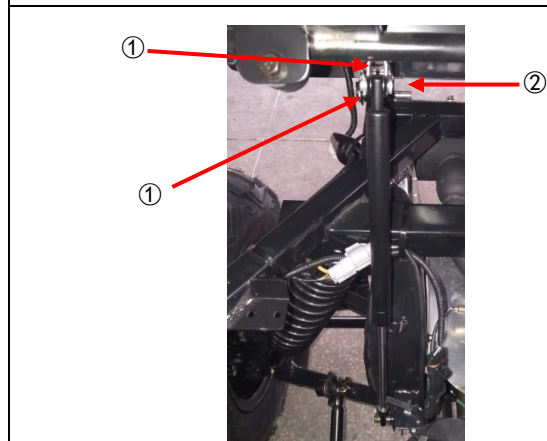
- Install the fender with four bolts②M6x20.

19. Install the cargo box



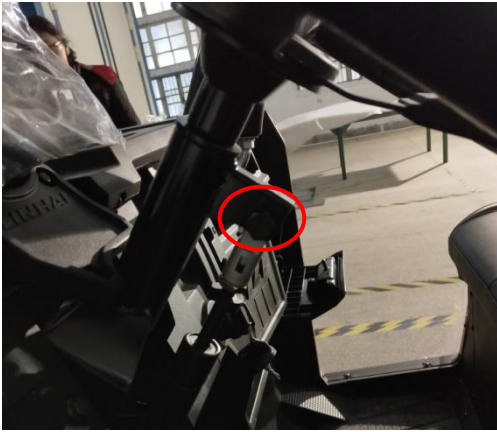
- Install the cargo box using two pins with bolting M6x12, washer M6 and spring washer M6.

Same procedure for left and right sides.



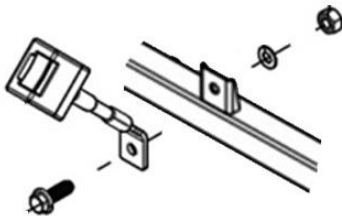
- Attach the gas strut to the cargo bed using washer①10,pin③ and cotter pin②2.5x20

20. Install the steering column gas strut



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

21. Install the central seat belt buckle



- Attach the belt buckle to the frame with the bolt provided in the buckle assembly.

22. Verify oil levels and test the UTV

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

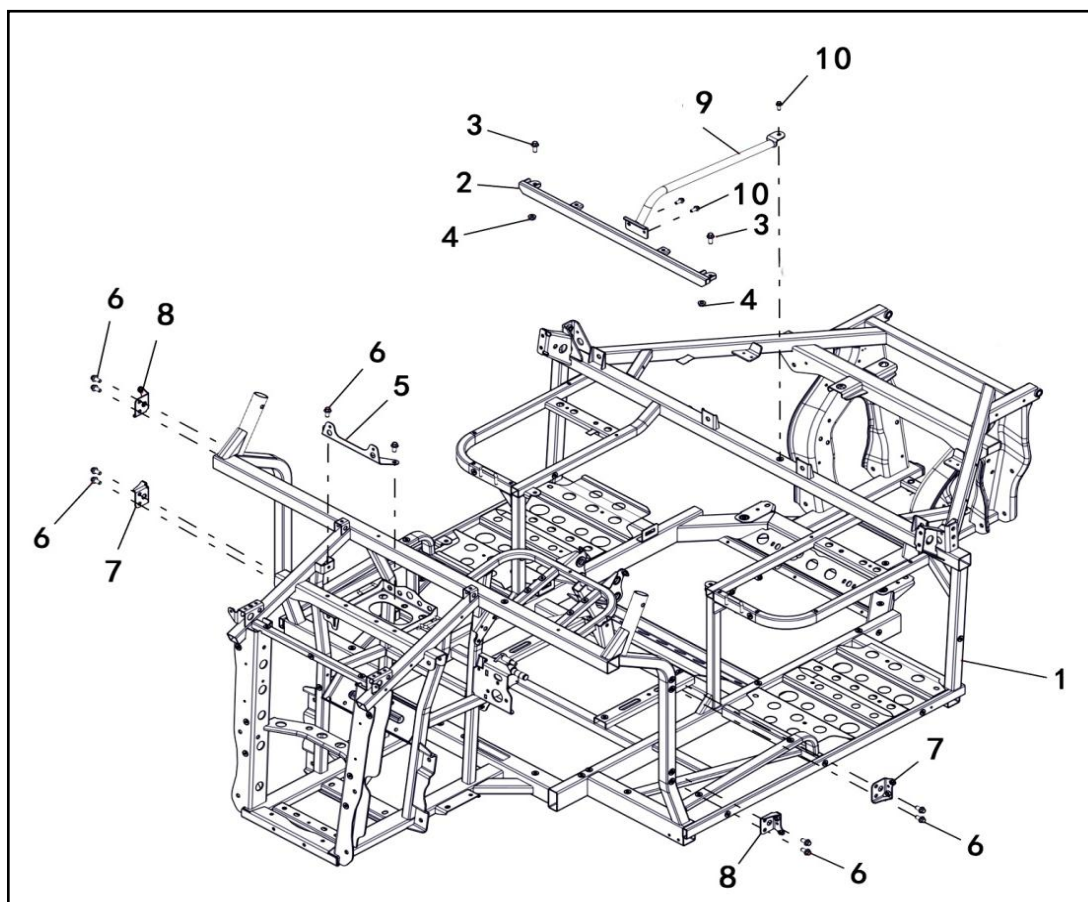
22. Registering Your ATV or UTV in Canada

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.

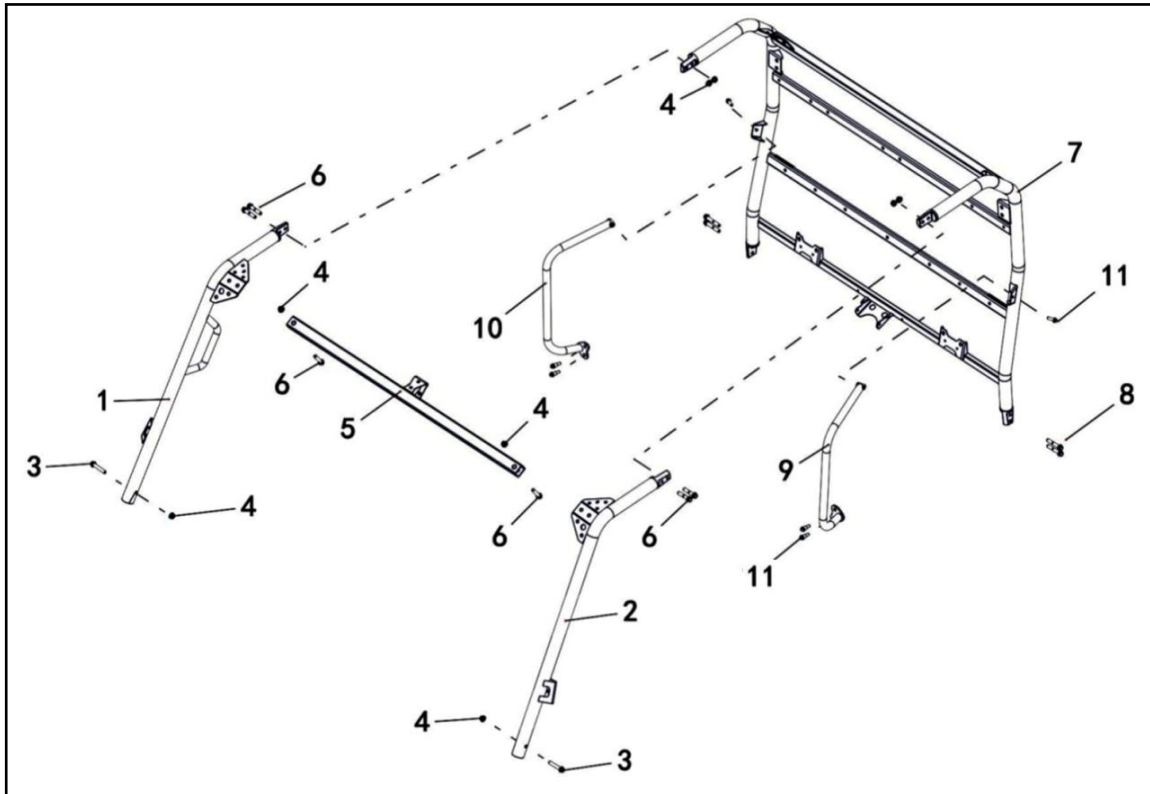
23. Exploded View and Parts List

Frame

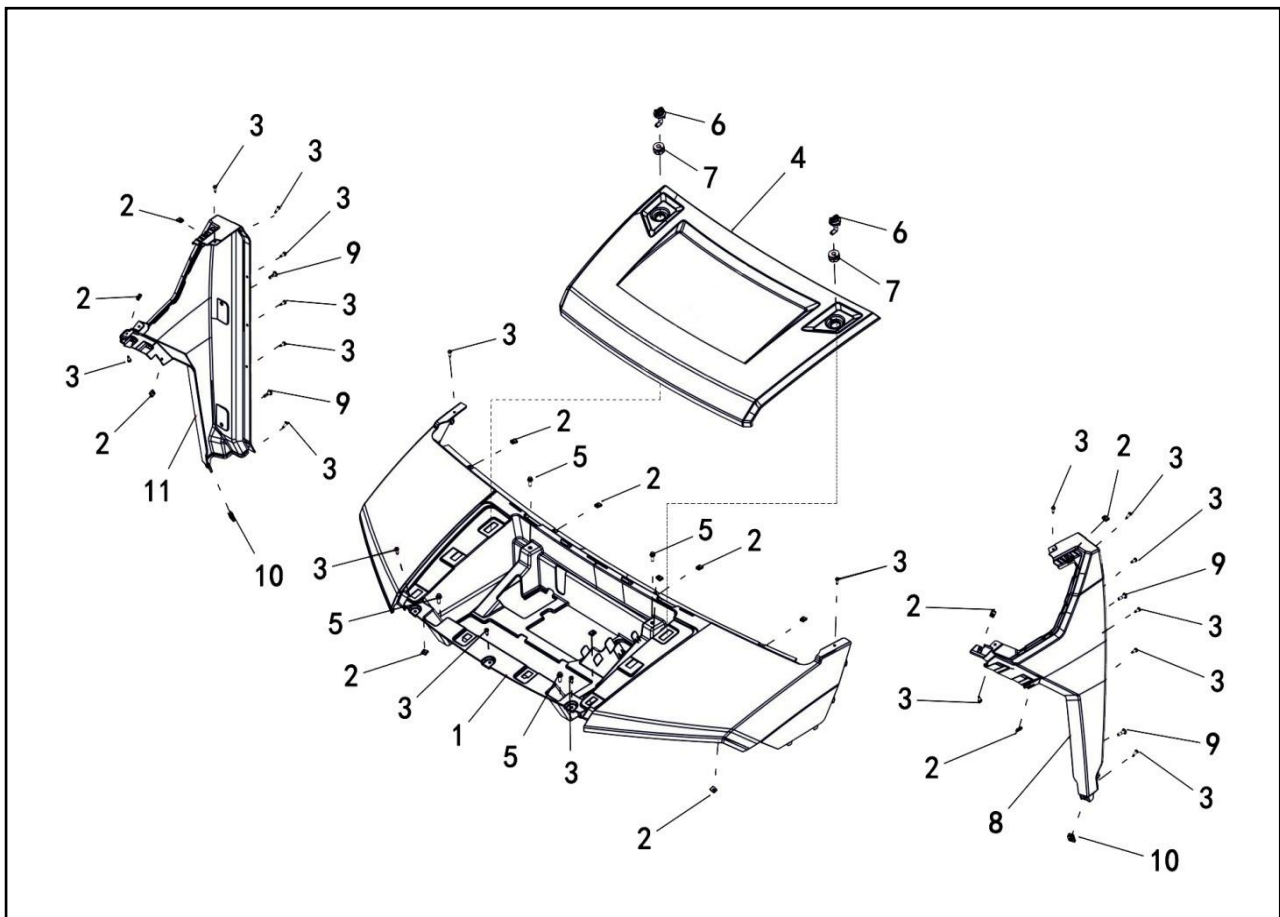


Ref. No.	Part No.	Description	Qty.
1	47610	Frame	1
2	47611	Cross Brace, Seat Frame	1
3	10783	Bolt M8x20	2
4	10882	Nut M8	2
5	47612	Bracket, Radiator	1
6	11236	Bolt M8x16	6
7	47613	Bracket 1, Plastic Parts	2
8	47614	Bracket 2, Plastic Parts	2
9	47615	Pipe, Seat Frame	1
10	11495	Bolt M6x16	3

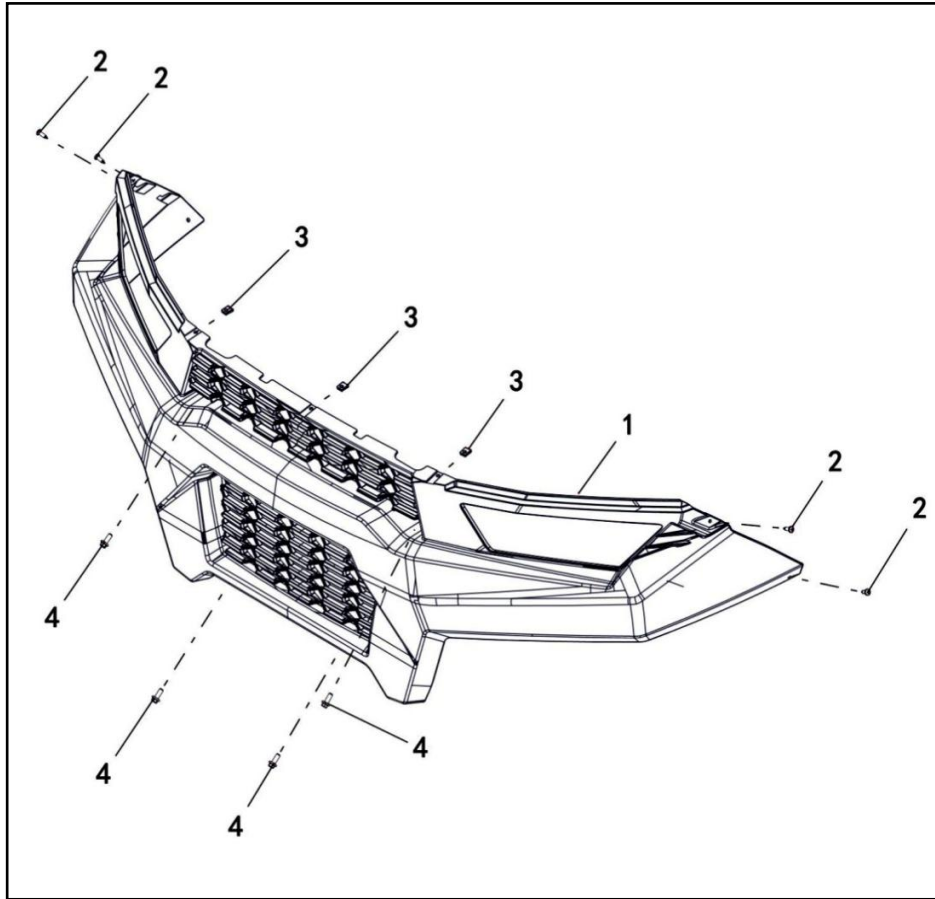
Frame Roof



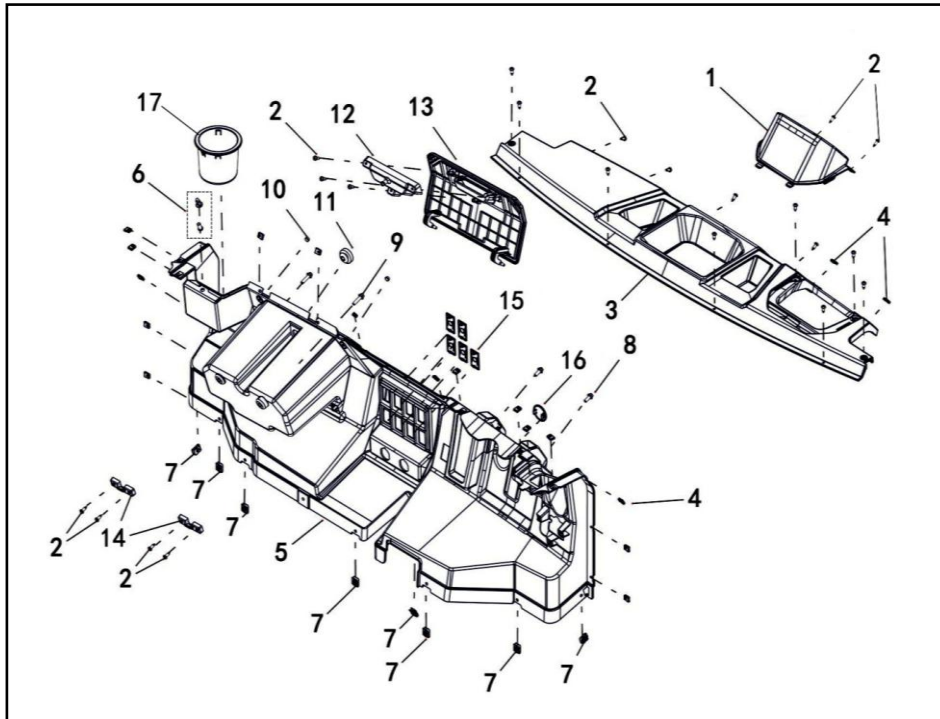
Ref. No.	Part No.	Description	Qty.
1	47679	Member, Roof Frame, Front RH	1
2	47680	Member, Roof Frame, Front LH	1
3	11846	Bolt M10x1.25x57	2
4	11287	Nut M10x1.25	8
5	47681	Member, Roof Frame, Front	1
6	11851	Bolt M10x1.25x50	6
7	47682	Member, Roof Frame, Rear	1
8	11240	Bolt M10x1.25x35	4
9	47683	Handrest Pipe, LH	1
10	47684	Handrest Pipe, RH	1
11	10059	Bolt M8x25	6



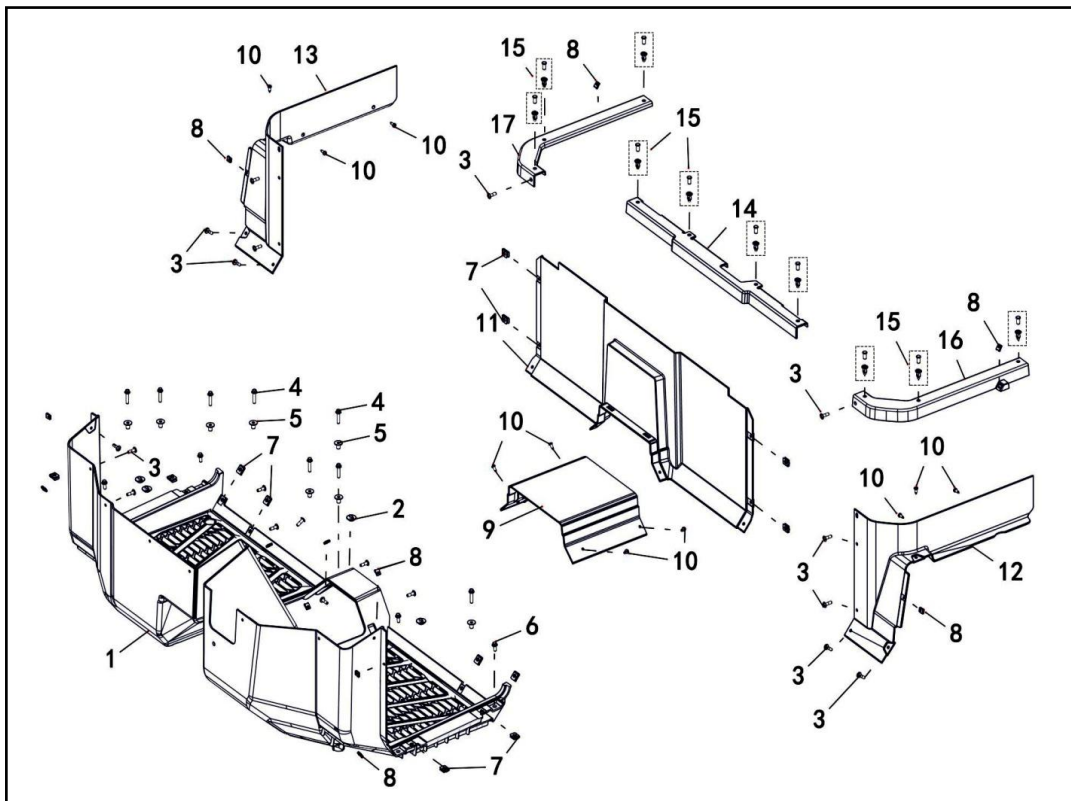
Ref. No.	Part No.	Description	Qty.
1	476167F	Front Panel	1
2	48314	Elastic Nut M5	14
3	47789	Hexagon Self-Tapping Screw M5x16	19
4	476187F	Front Shroud	1
5	10239	Bolt M6x16	4
6	47619	Quick Removal of Plastic Handle from Front Shroud	2
7	47620	Quick Removal of Rubber Boot from Front Shroud	2
8	47621	The Left Front Batten	1
9	73054	Screw M6x16	4
10	70960	Plastics Elastic Nut	2
11	47622	The Right Front Batten	1



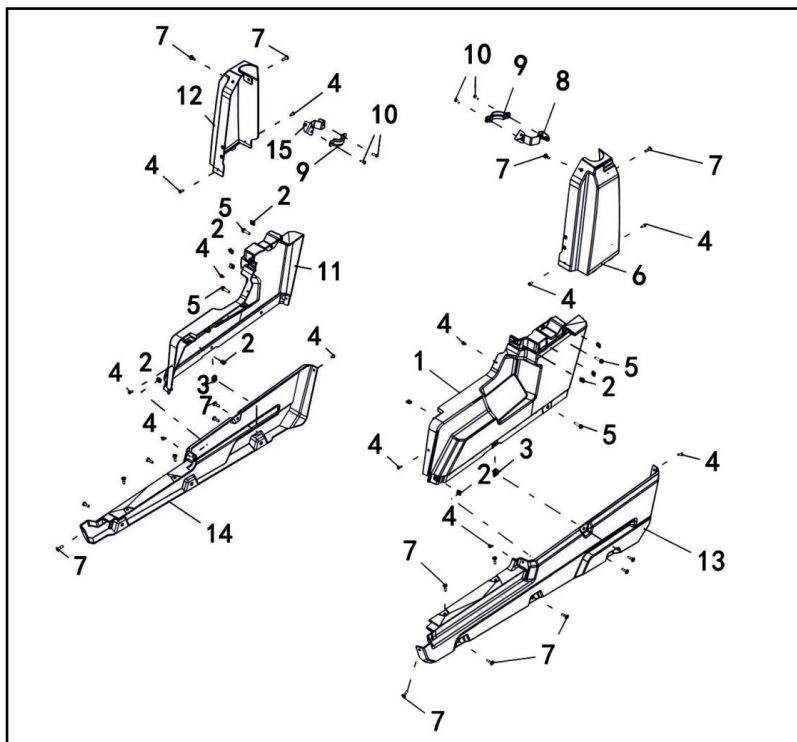
Ref. No.	Part No.	Description	Qty.
1	47623	Grill, Front	1
2	47789	Hexagon Self-Tapping Screw M5x16	4
3	48314	Elastic Nut M5	3
4	10239	Bolt M6x16	4



Ref. No.	Part No.	Description	Qty.
1	47624	Instrument Cowl	1
2	47617	Hexagon Self-Tapping Screw M5x16	21
3	47625	Upper Panel, Instrument	1
4	48314	Spring Nut M5	18
5	47626	Bottom Panel, Instrument	1
6	47627	Expansion Screw	1
7	70960	Plastics Elastic Nut	8
8	11495	Bolt M6x16	2
9	11307	Bolt M6x25	2
10	48219	Cushion Rubber	2
11	48218	Grommet Rubber, Mount	1
12	48220	Fixed Support, Glovebox Lid	1
13	48217	Lid, Glovebox	1
14	48221	Retainer, Glovebox Lid	2
15	73048	Cap, Electrical Switch	5
16	48264	Cap, USB	1
17	47628	Cup Stand	1

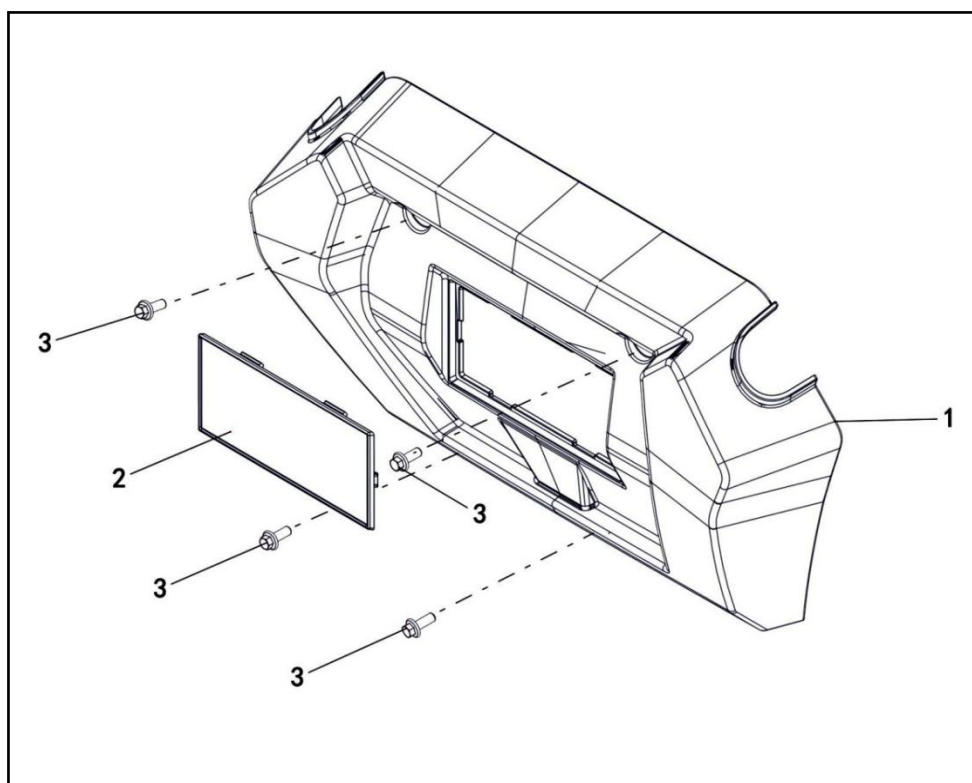


Ref. No.	Part No.	Description	Qty.
1	47629	Foot Plate	1
2	22349	Rubber Plug	4
3	46193	Screw M6x20	19
4	11241	Bolt M6x30	8
5	48256	T-Shaped Liner Bushing	8
6	11495	Bolt M6x16	4
7	70960	Plastics Elastic Nut	12
8	48314	Spring Nut M5	12
9	48226	Lower Floor Cover, Footrest	1
10	47617	Hexagon Self-Tapping Screw M5x16	10
11	47630	Seat, Front Cover Plate	1
12	47631	Seat, Cover Plate, L	1
13	47632	Seat, Cover Plate, R	1
14	47633	Seat, Front Cover Plate, The Baffle	1
15	47627	Plastic Screw	10
16	47634	Seat, Cover Plate, L	1
17	47635	Seat, Cover Plate, R	1

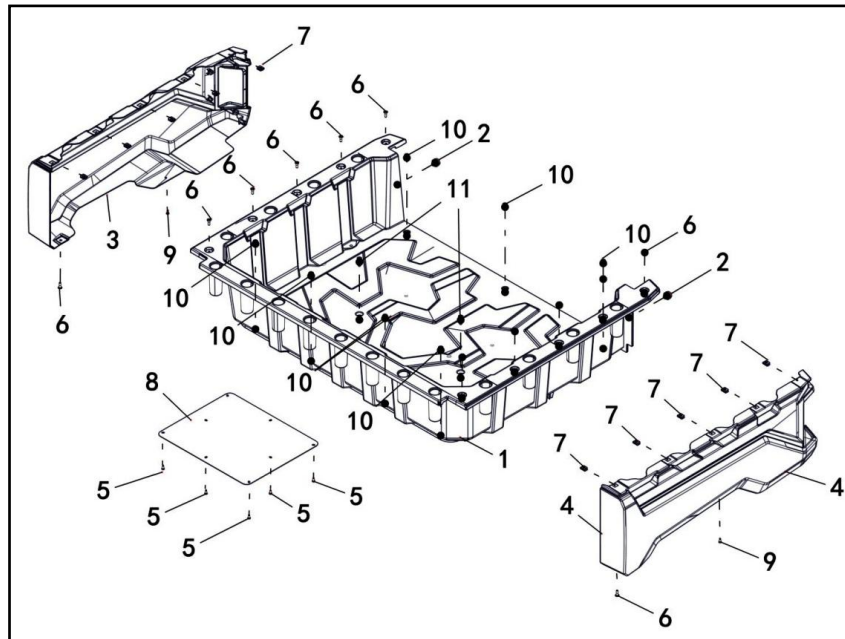


Ref. No.	Part No.	Description	Qty.
1	47636	LH Panel	1
2	48314	Spring Nut M5	10
3	70960	Spring Nut M6	2
4	47617	Hexagon Self-Tapping Screw M5x16	12
5	11307	Bolt M6x25	2
6	47637	LH Upper Panel	1
7	46193	Screw M6x20	18
8	47638	Side Panel, Mounting Bracket, LH	1
9	48222	Side Panel, Mounting Buckle	2
10	11529	Screw With Cross Groove M5x16	4
11	47639	Rh Panel	1
12	47640	Rh Upper Panel	1
13	48234	LH Side Fender	1
14	48235	Rh Side Fender	1
15	47641	Side Panel, Mounting Bracket, RH	1

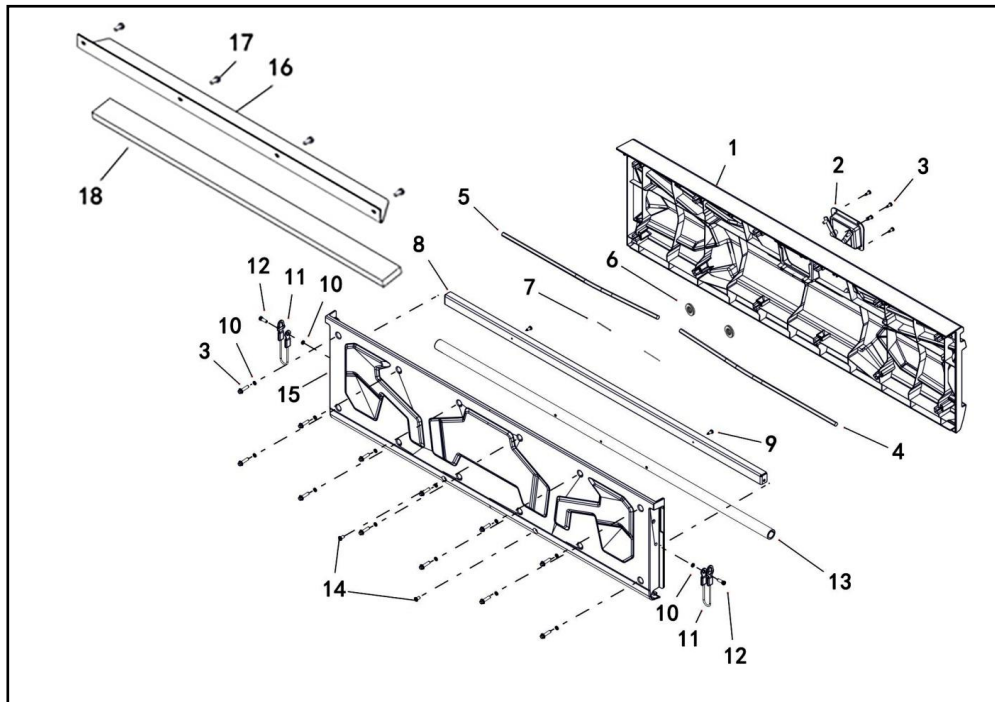
Fender



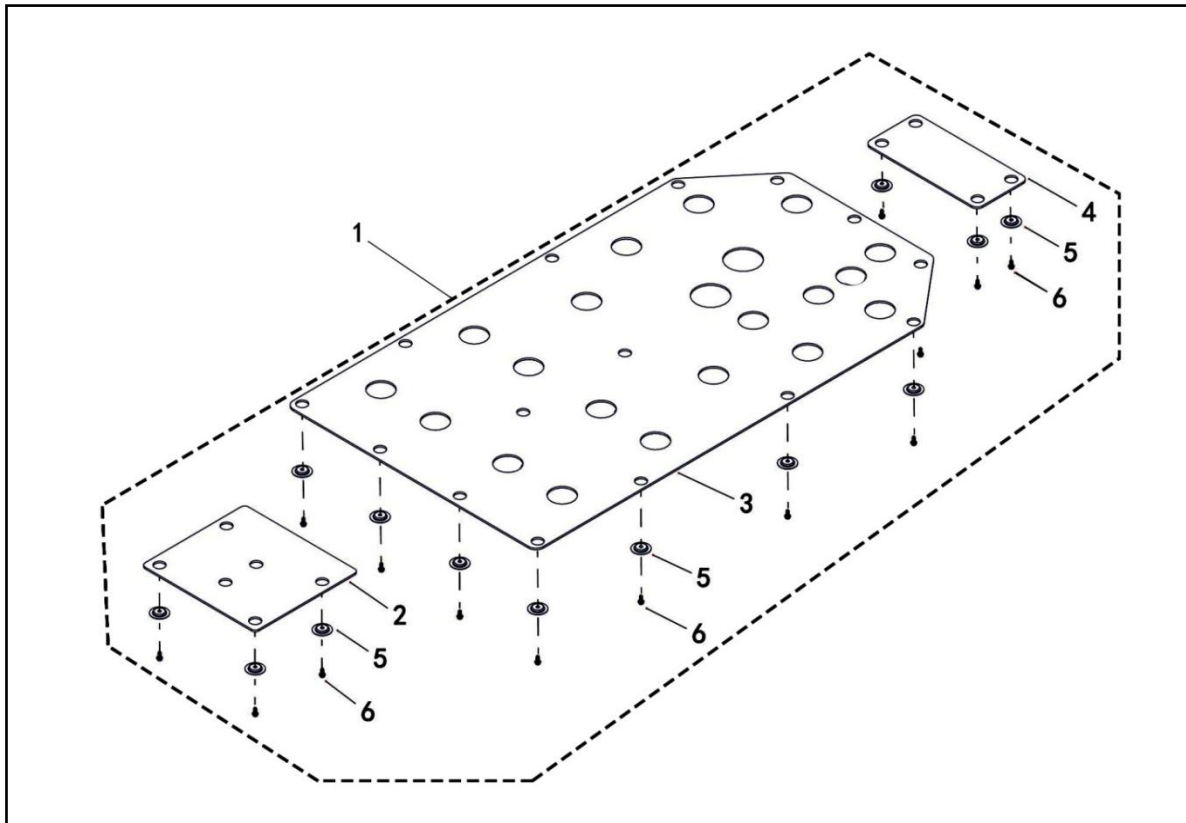
Ref. No.	Part No.	Description	Qty.
1	47642	Bumper Guard	1
2	48201	Retractor Cover Plate	1
3	10239	Bolt M6x16	4



Ref. No.	Part No.	Description	Qty.
1	47643	Box Floor Cover	1
2	48145	Box Rear Panel Rubber Stopper	2
3	47644	Box Cover, R Cover Cap	1
4	47645	Box Cover, L Cover Cap	1
5	48316	Self-Tapping Screw M5x16	8
6	46193	Screw M6x20	12
7	70960	Spring Nut M6	8
8	47646	Box Thermal Baffle	1
9	47617	Hexagon Self-Tapping Screw M5x16	2
10	48359	Disc Brake Disc Erection Bolt	7
11	47647	Case Mounting Bolts	2

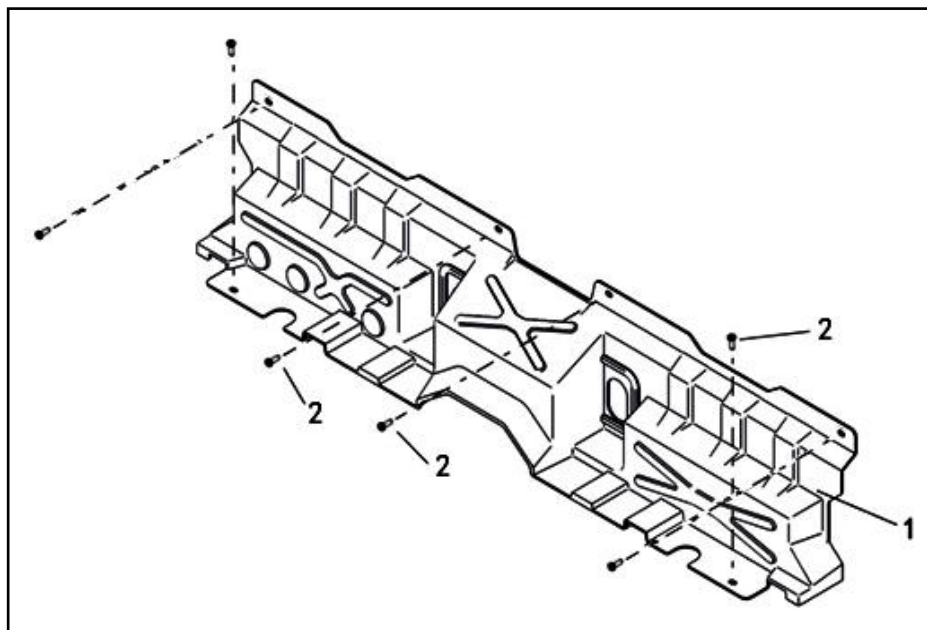


Ref. No.	Part No.	Description	Qty.
1	47648	Box Rear Panel	1
2	48137	Box Rear Panel Handle	1
3	47617	Tapping Screw M5x16	16
4	47649	Box Rear Panel Lock Pin, L	1
5	47650	Box Rear Panel Lock Pin, R	1
6	48150	Handle Adjust Washer	2
7	48149	Handle Cotter Pin	2
8	47651	Box Rear Panel Mounting Plate	1
9	10052	Tapping Screw ST4.8x13	2
10	11019	Spring Lock Washer 6	2
11	47652	Upper Retainer Cable	2
12	47653	Inner Hexagonal Flat Head Step Bolt M6x20	2
13	47654	Box Rear Panel Axis	1
14	11151	Cross Recessed Countersunk Head Screw M6x12	2
15	47655	Box Inner Panel	1
16	48351	Plate, Box	1
17	46193	Bolt M6x20	4
18	48352	Sponge	1



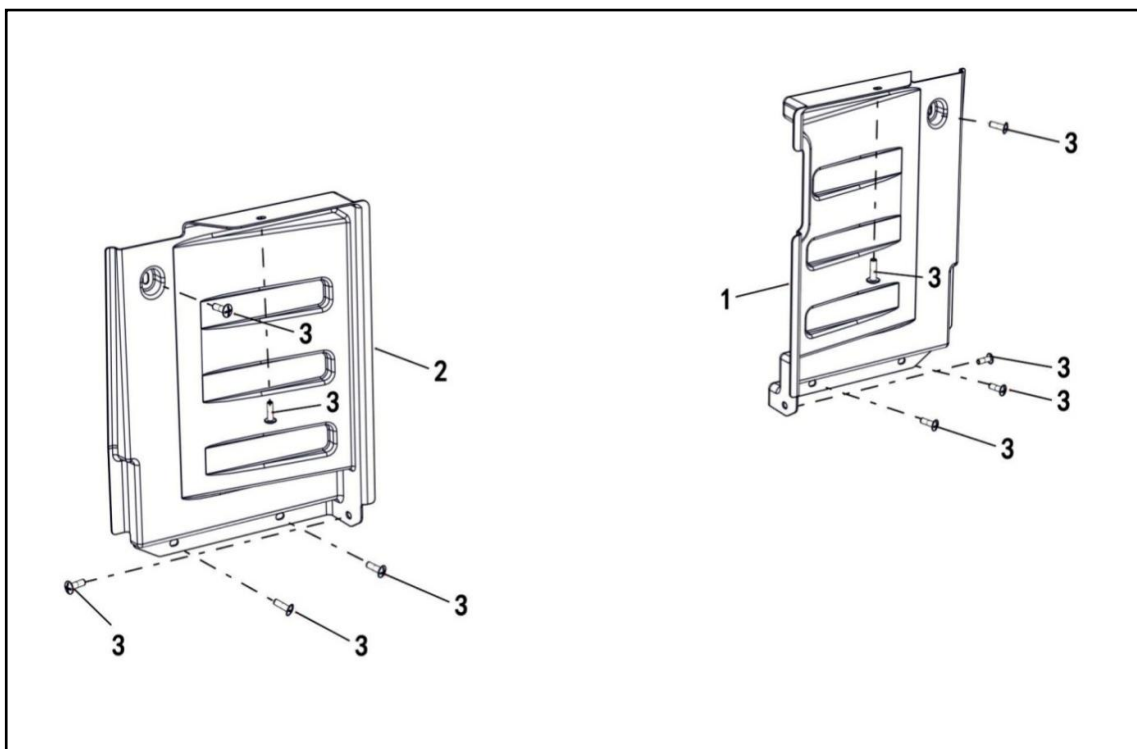
Ref. No.	Part No.	Description	Qty.
1	47656	Plate	1
2	48277	Plate, Front	1
3	47657	Plate, Middle	1
4	47658	Plate, Rear	1
5	20331	Washer	23
6	11495	Bolt M6×16	23

Fender



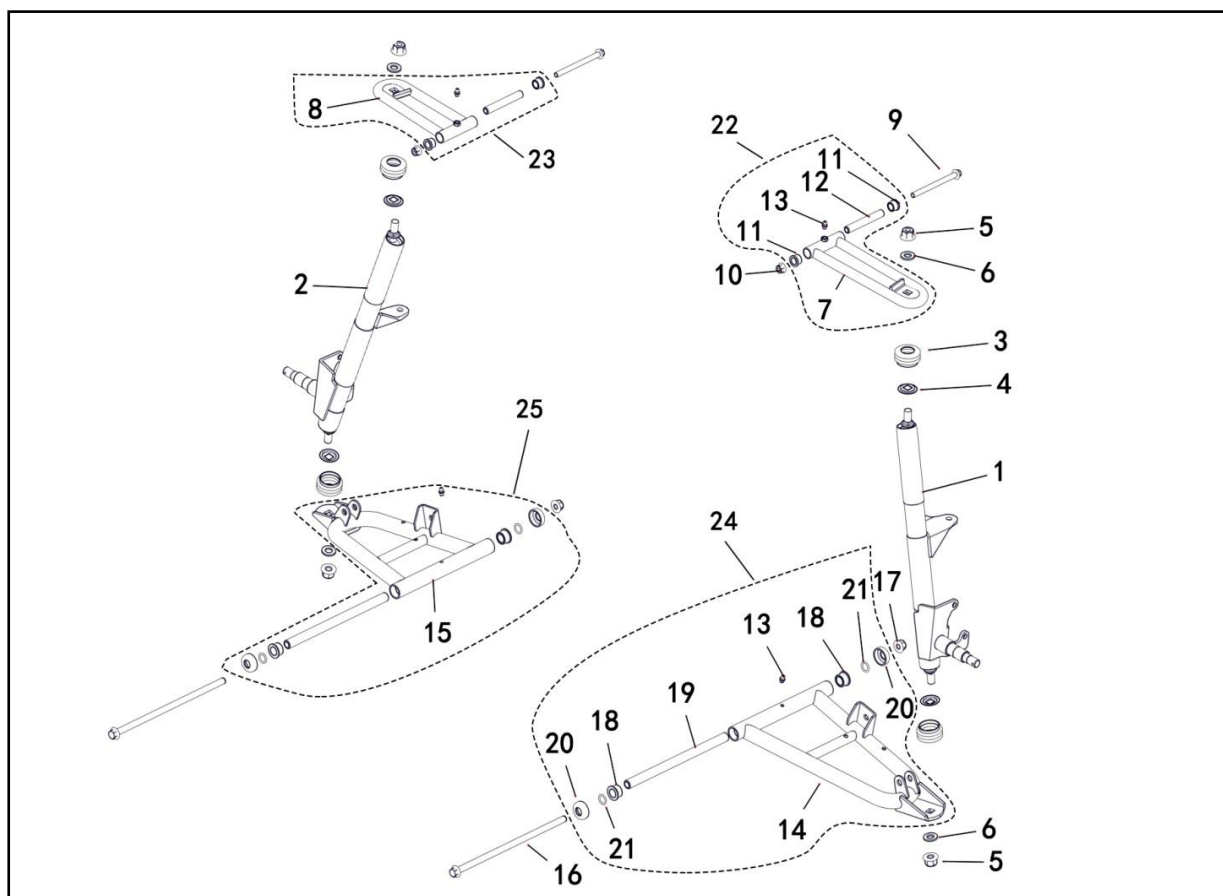
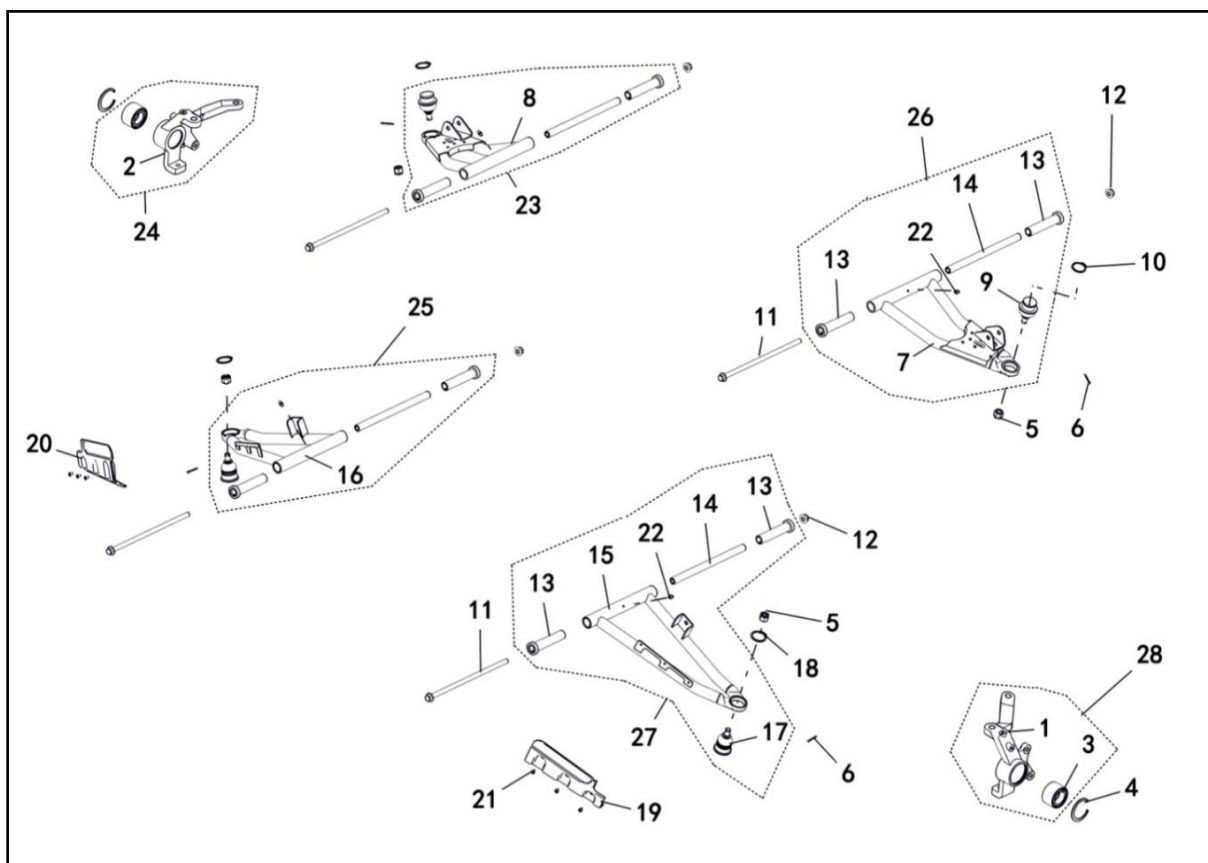
Ref. No.	Part No.	Description	Qty.
1	47659	Heat Protection Plate, Seat	1
2	46193	Bolt M6×20	6

Fender



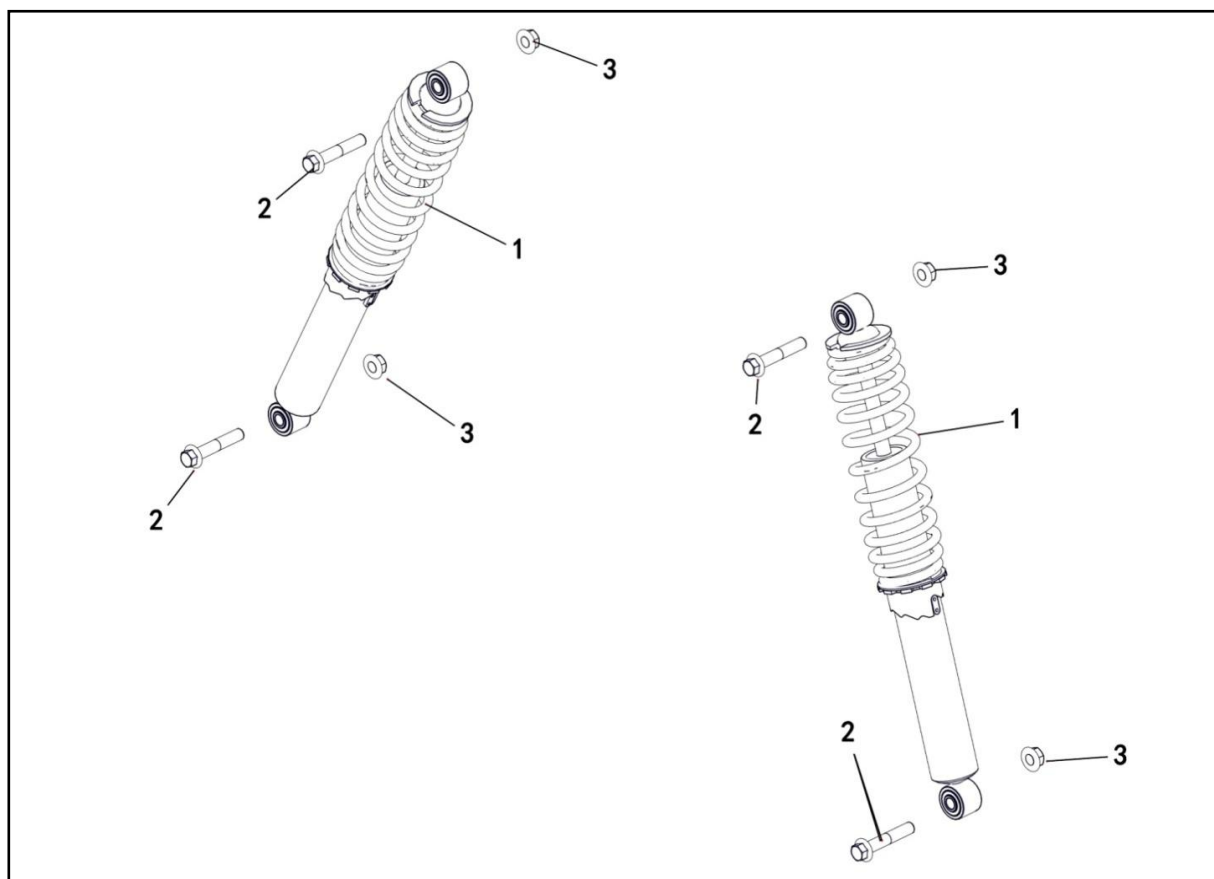
Ref. No.	Part No.	Description	Qty.
1	47660	Rear Fender, LH	1
2	47661	Rear Fender, Rh	1
3	46193	Bolt M6x20	10

Shock Absorber Front



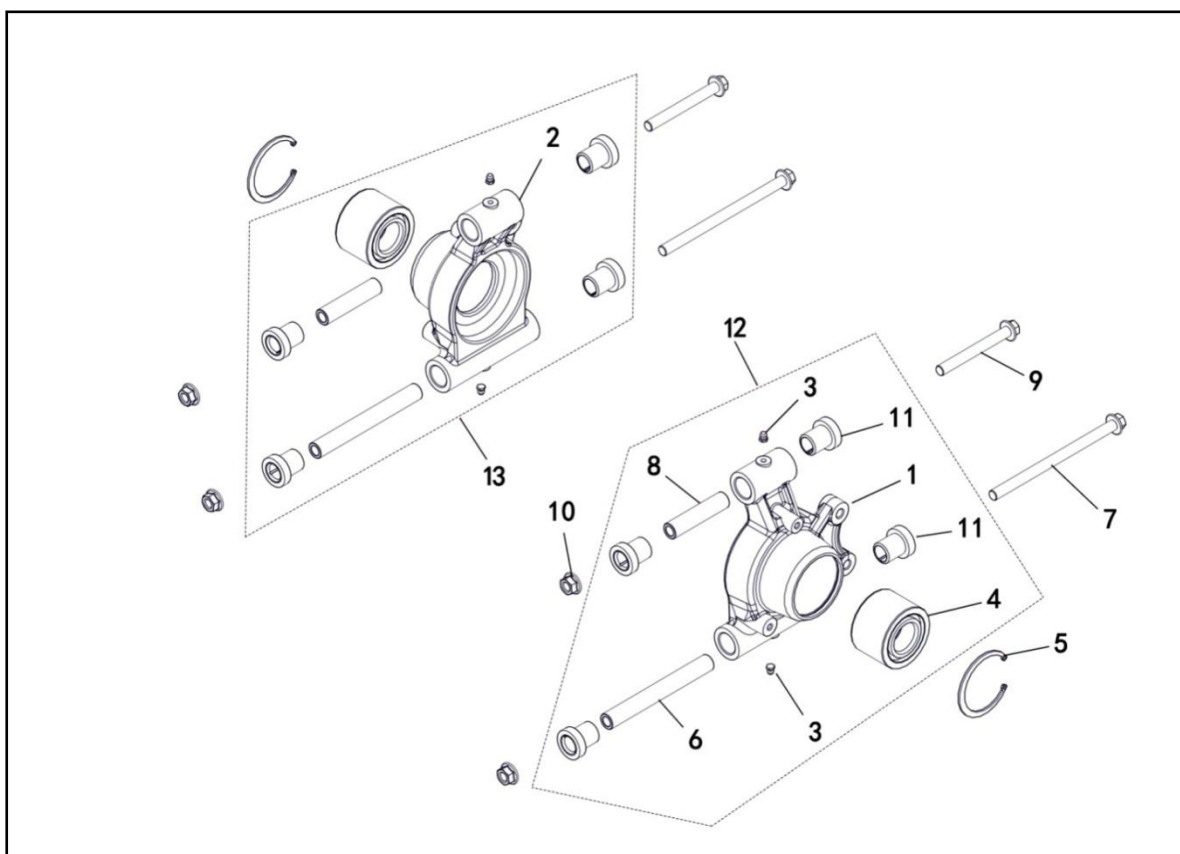
Ref. No.	Part No.	Description	Qty.
1	48091	Carrier Bearing, Front, LH	1
2	48094	Carrier Bearing, Front, RH	1
3	48092	Bearing	2
4	11852	Circlip 55	2
5	70679	Nut M12×1.25	4
6	10993	Pin 3.2x30	4
7	47772	Arm Upper FRT LH	1
8	47773	Arm Upper FRT RH	1
9	48090	Ball Joint, Upper	2
10	11383	Circlip 32	2
11	48107	SCR HXFL, FRT Arm	4
12	11287	Nut M10	4
13	48106	Bushing, long	8
14	48105	Shaft Pivot	4
15	47774	Arm Lwr Frt Lh	1
16	47775	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 M5x10	6
22	27074	Grease Fitting M6	4
23	47776	Arm Upper Frt Rh Assy	1
24	48336	Carrier Bearing Wheel Rh Assy	1
25	47777	Arm Lwr Frt Rh Assy	1
26	47778	Arm Upper Frt Lh Assy	1
27	47779	Arm Lwr Frt Lh Assy	1
28	48340	Carrier Bearing Wheel Lh Assy	1

Shock Absorber Front



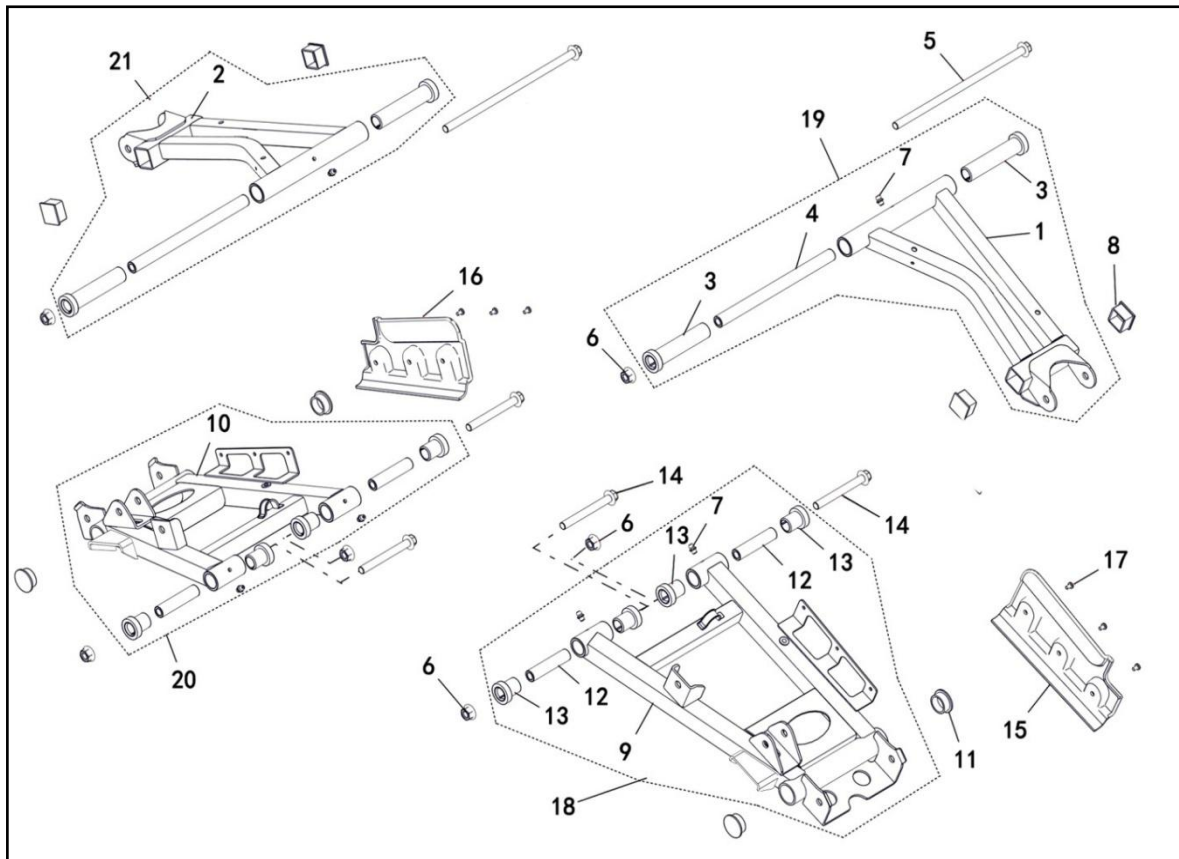
Ref. No.	Part No.	Description	Qty.
1	47662	Front Shock Absorber Assy	2
2	11846	Bolt M10x1.25x57	4
3	11287	Nut M10	4

Shock Absorber Rear



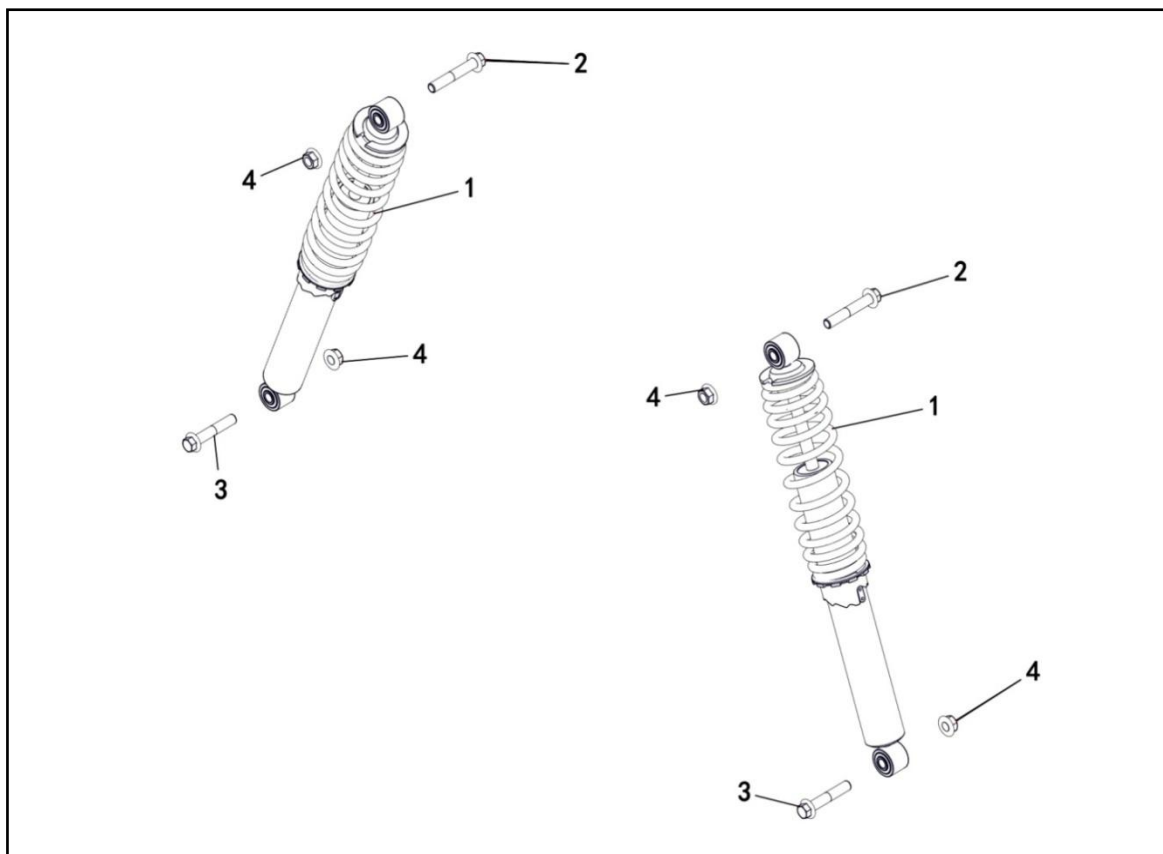
Ref. No.	Part No.	Description	Qty.
1	48164	Carrier Bearing Wheel Rear, Lh	1
2	48165	Carrier Bearing Wheel Rear, Rh	1
3	27074	Grease Fitting M6	4
4	48077	Bearing	2
5	11155	Circlip 63	2
6	48161	Shaft Pivot, Lwr	2
7	48162	Scr Hxfl, Rear Arm, Lwr	2
8	48160	Shaft Pivot, Upper	2
9	11816	Bolt M10x1.25x90	2
10	11287	Nut M10	4
11	48070	Bushing, Short	8
12	48345	Carrier Bearing Wheel Rear Lh Assy	1
13	48346	Carrier Bearing Wheel Rear Rh Assy	1

Shock Absorber Rear



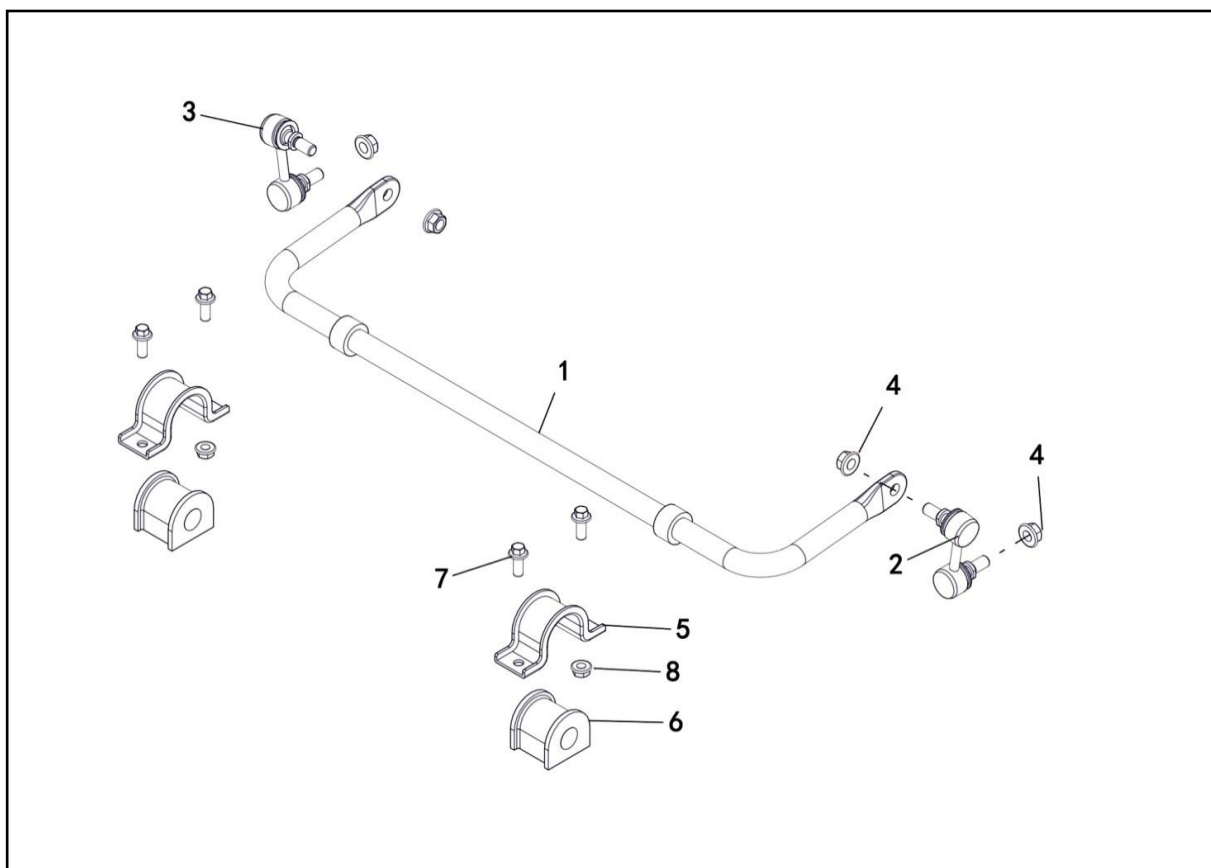
Ref. No.	Part No.	Description	Qty.
1	47772	Arm Upper Rear, Lh	1
2	47773	Arm Upper Rear, Rh	1
3	48106	Bushing, Long	4
4	48068	Shaft, Rear Upper Arm	2
5	48071	Scr Hxfl, Rear Upper Arm	2
6	11287	Nut M10	6
7	27074	Grease Fitting M6	6
8	70287	Square Rubber Plug	4
9	47774	Arm Lwr Rear, Lh	1
10	47775	Arm Lwr Rear, Rh	1
11	48073	Plug	4
12	48069	Shaft, Rear Lwr Arm	4
13	48070	Bushing, Short	8
14	11816	Bolt M10x1.25x90	4
15	84251	Cover, Arm Lwr Rear, Lh	1
16	84252	Cover, Arm Lwr Rear, Rh	1
17	11153	Screw M5x10	6
18	47784	Arm Lwr Rear Lh Assy	1
19	48342	Arm Upper Rear Lh Assy	1
20	47785	Arm Lwr Rear Rh Assy	1
21	48344	Arm Upper Rear Rh Assy	1

Shock Absorber Rear



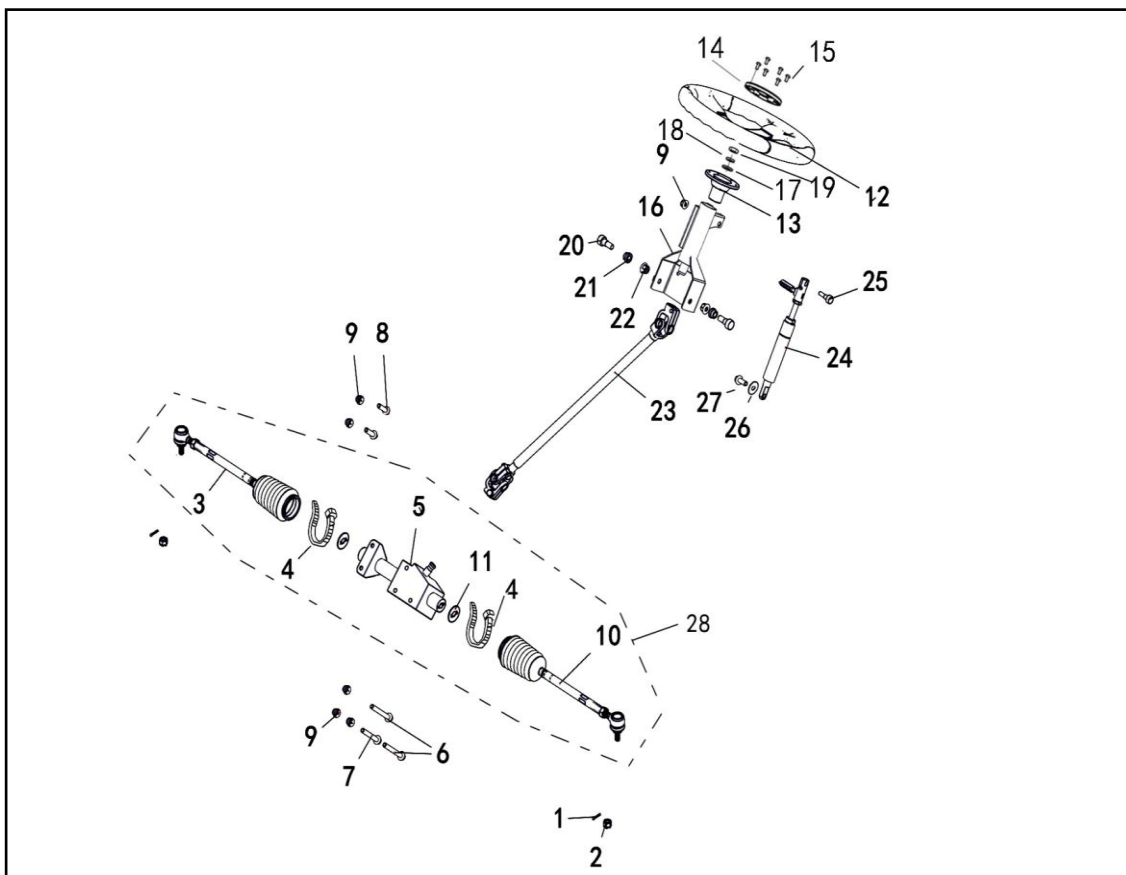
Ref. No.	Part No.	Description	Qty.
1	47786	Rear Shock Absorber Assy	2
2	11848	Bolt M10x1.25x62.5	2
3	11846	Bolt M10x1.25x57	2
4	11287	Nut M10	4

Shock Absorber Rear



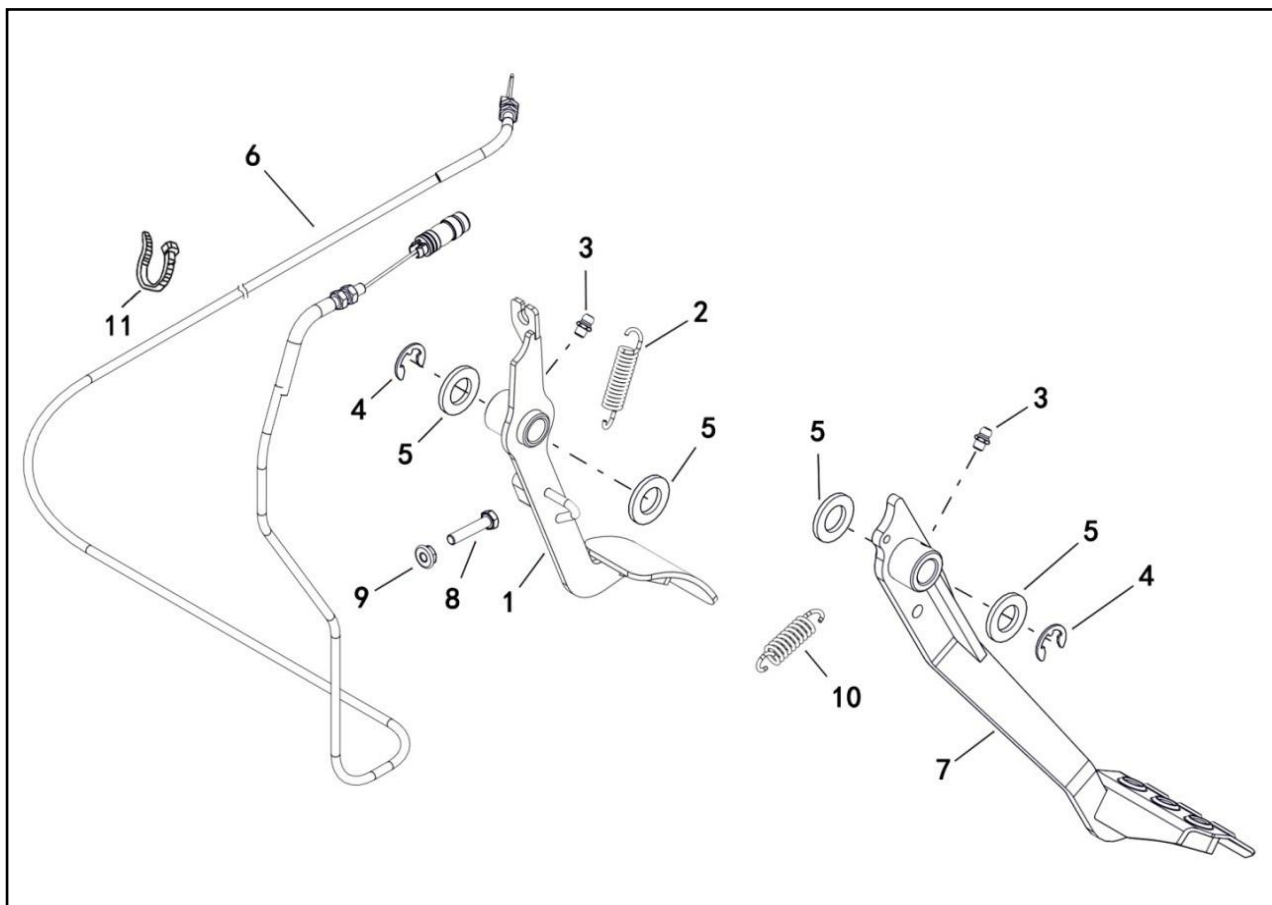
Ref. No.	Part No.	Description	Qty.
1	48079	Stabilizer Bar	1
2	48081	Asm-Linkage, Stabilizer Bar, Lh	1
3	48080	Asm-Linkage, Stabilizer Bar, Rh	1
4	11287	Nut M10	4
5	27090	Shield-Bushing	2
6	27091	Bushing Stabilizer	2
7	10783	Bolt M8x20	4
8	10882	Nut M8	2

Steering Assy



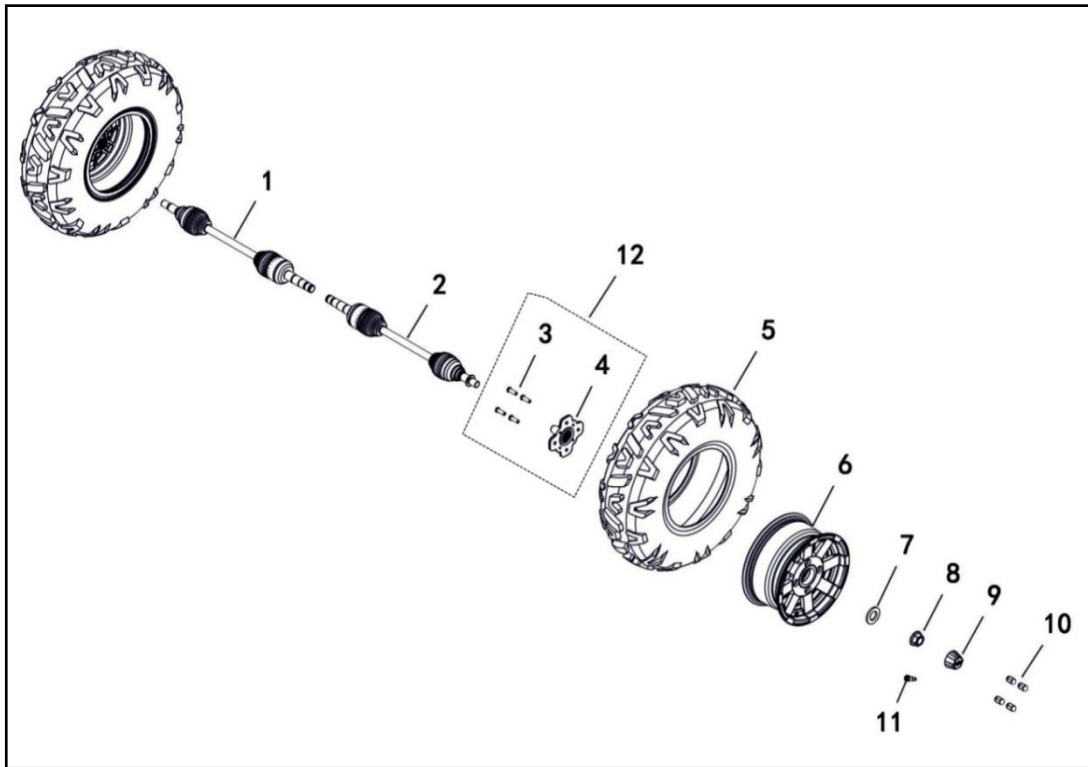
Ref. No.	Part No.	Description	Qty.
1	27215	Pin 2.5×25	2
2	27067	Nut M10×1.25	2
3	48102	Steering Tie-Rod, Rh	1
4	48326	Tie	2
5	47600	Steering Motor	1
6	10118	Bolt M8×95	2
7	11244	Bolt M8×80	1
8	10783	Bolt M8×20	2
9	10882	Nut M8	6
10	48103	Steering Tie-Rod, Lh	1
11	48104	Steering Motor Sheet	2
12	26925	Steering Wheel	1
13	26932	Steering Wheel Holder	1
14	26934	Steering Cover	1
15	73072	Screw M5×10	6
16	47601	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	47602	Shaft Steering	1
24	48354	Adjustment Cylinder, New	1
25	73119	Shoulder Bolt M8×1.25×30	1
26	11391	Washer 6	1
27	10140B	Bolt M6×12	1

Pedal



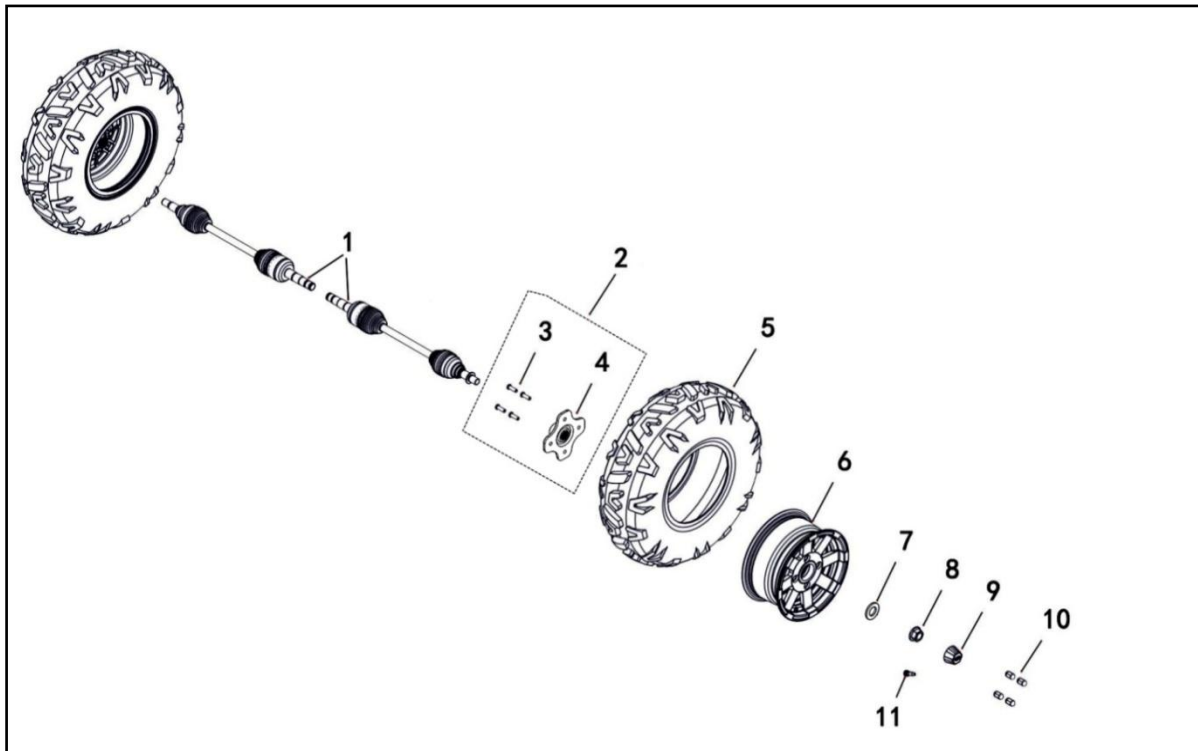
Ref. No.	Part No.	Description	Qty.
1	47709	Accelerate Pedal Assy	1
2	73204	Pedal Spring, Accelerate	1
3	27074	Grease Fitting M6	2
4	10811	Lock Washer 12 For Shafts	2
5	11247	Washer 16	4
6	47710	Throttle Cable	1
7	47711	Brake Pedal Assy	1
8	11496	Bolt M6x30	1
9	11176	Nut M6	1
10	47712	Pedal Spring, Brake	1
11	55016	Tie	1

Wheel Front

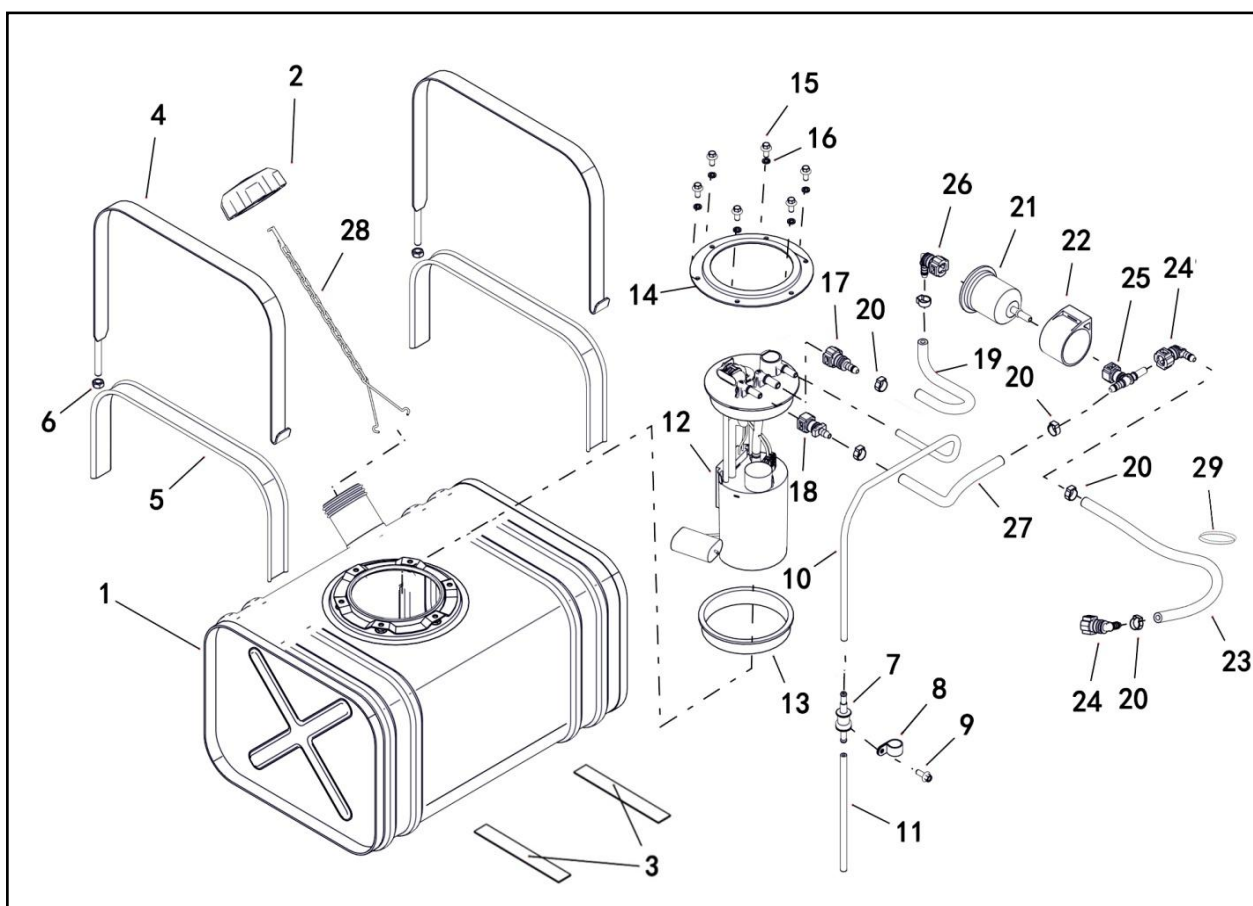


Ref. No.	Part No.	Description	Qty.
1	48355	Front Right Drive Axle	1
2	48356	Front Left Drive Axle	1
3	48155	Bolt M10x1.25	8
4	48156	Hub Assy Shrt	2
5	47663	Front Tire	2
6	47664	Wheel Sub-Assy	2
7	48163	Washer 24	2
8	48157	Nut M24, Wheel	2
9	47665	Cap, Wheel Sub-Assy	2
10	47804	Nut M10x1.25, Wheel	8
11	20807a	Valve, Rim (TR412)	2
12	48347	Hub For Steel Wheel Assy	2

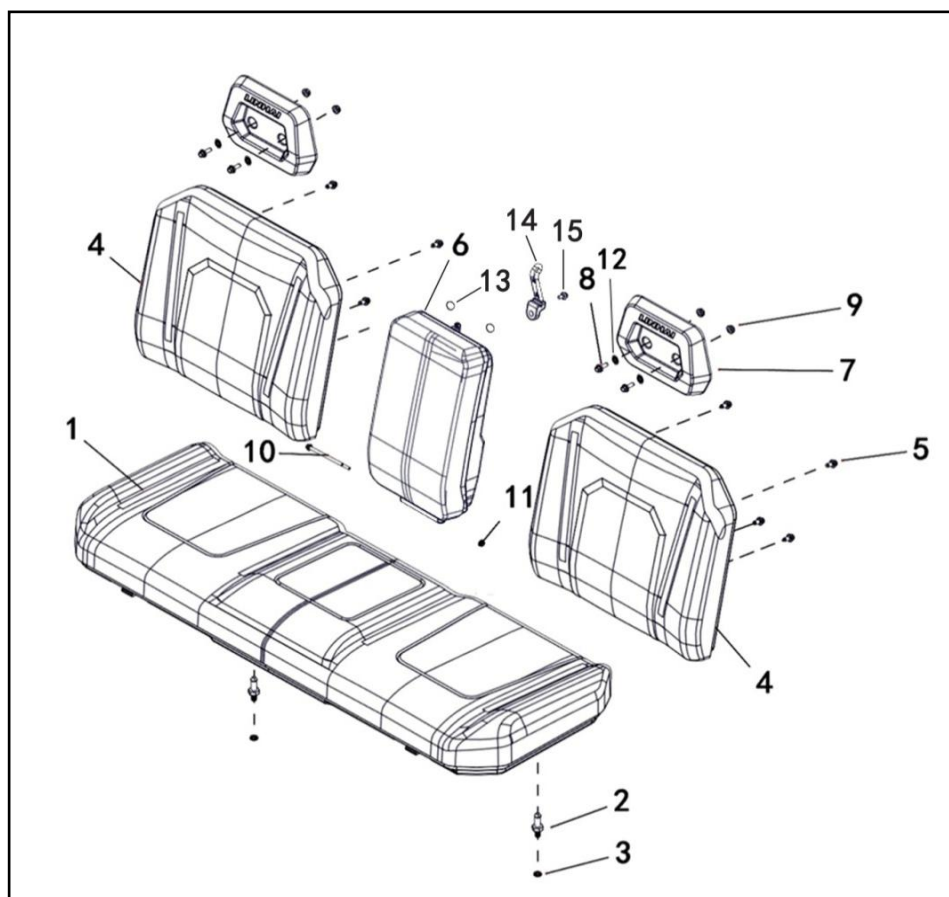
Wheel Rear



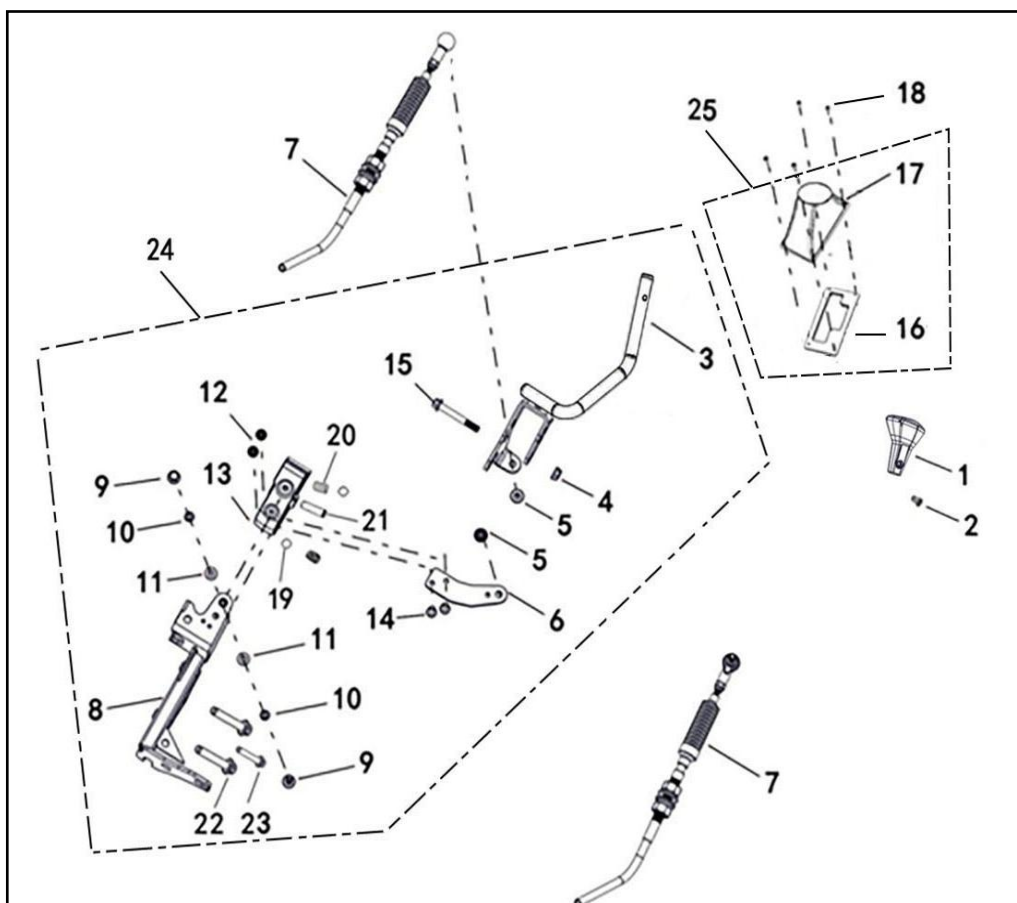
Ref. No.	Part No.	Description	Qty.
1	47666	Rear Drive Axle Assembly	2
2	47667	Hub For Steel Wheel Assy	2
3	48155	Bolt M10x1.25	8
4	47668	Hub Assy Shrt	2
5	46289	Tire Rear	2
6	47669	Wheel Sub-Assy	2
7	48163	Washer 24	2
8	48157	Nut M24, Wheel	2
9	47665	Cap, Wheel Sub-Assy	2
10	47804	Nut M10x1.25, Wheel	8
11	20807a	Valve, Rim (TR412)	2



Ref. No.	Part No.	Description	Qty.
1	47603	Fuel Tank Comp Steel	1
2	71972	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 M6x16	1
10	48032	Hose 1	1
11	48033	Hose 2	1
12	47605	Fuel Pump	1
13	73154	Sealing for Fuel Pump-Steel Tank	1
14	47606	Bracket for Fuel Pump	1
15	10087	Bolt M6x10	6
16	11019	Spring Lock Washer 6	6
17	73145	Quick Fitting Assy 9.49	1
18	73146	Quick Fitting Assy 7.89	1
19	47607	Fuel Line 1	1
20	48122	Clip 14.6	6
21	48318	Fuel Filter	1
22	48415	Fuel Filter Support	1
23	47608	Fuel Line 2	1
24	48004	Quick Fitting Assy 7.89, B13	2
25	48005	Quick Fitting Assy 7.89, B6	1
26	48319	Quick Fitting Assy 7.89, B13	1
27	47609	Fuel Return Line	1
28	48123	Chain	1
29	48517	Wide Rubber Band	1

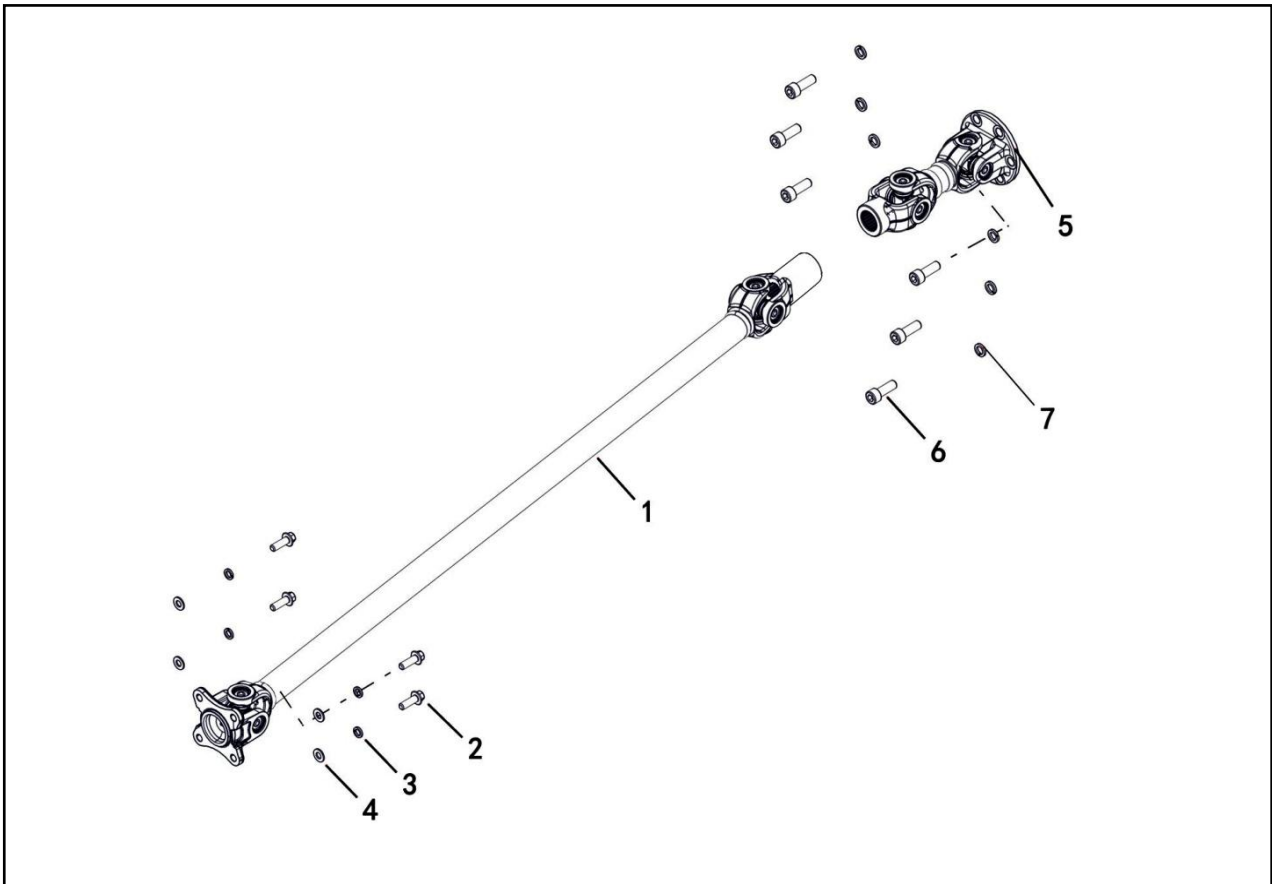


Ref. No.	Part No.	Description	Qty.
1	48126	Integral Seat Assembly	1
2	48125	Pin, Fix	2
3	11165	Spring Washer 10	2
4	48129	Side Backrest	2
5	10783	Bolt M8x20	8
6	48564	Middle Backrest	1
7	48128	Head Rest	2
8	10783	Bolt M8x20	4
9	10882	Nut M8	4
10	48085	Bolt	1
11	11233	Nut M6	1
12	10089	Washer 10	4
13	48565	Rubber Damper (ϕ 20x4)	2
14	48566	Rubber Lock	1
15	10140B	Bolt M6x12	1



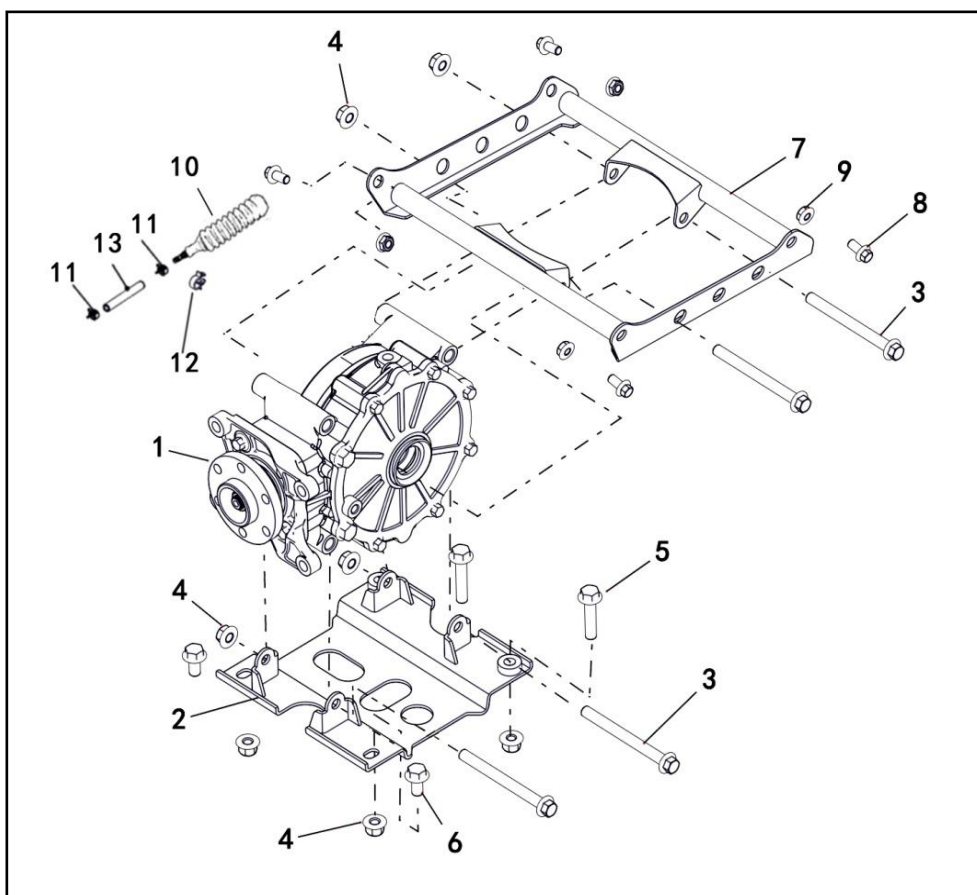
Ref. No.	Part No.	Description	Qty.
1	47670	Knob Shifter	1
2	73072	Screw M5x10	1
3	47671	Shifter Lever Welding Assembly	1
4	10882	Nut M8	1
5	10882	Nut M8	2
6	47672	Shift Cable Holder	1
7	47673	Shift Push Cable Assembly	2
8	47674	Shift Bracket Welding Assembly	1
9	46230	Limit Bolt	2
10	10106	Spring Washer 8	2
11	11788	Washer 8	2
12	11233	Nut M6	2
13	46237	Shift Inner Core	1
14	11459	Bolt M6x20	2
15	11643	Bolt M8x60	1
16	47676	Shift Trim Mounting Plate	1
17	47677	Shift Trim	1
18	11850	Screw M10x1.25x32	4
19	46236	Steel Ball	2
20	46235	Spring	2
21	47678	Spacer Bush	1
22	11030	Bolt M8x35	2
23	11495	Bolt M6x16	1
25	47850	Shift Trim Assembly	1

Front and Rear Knuckle Assy

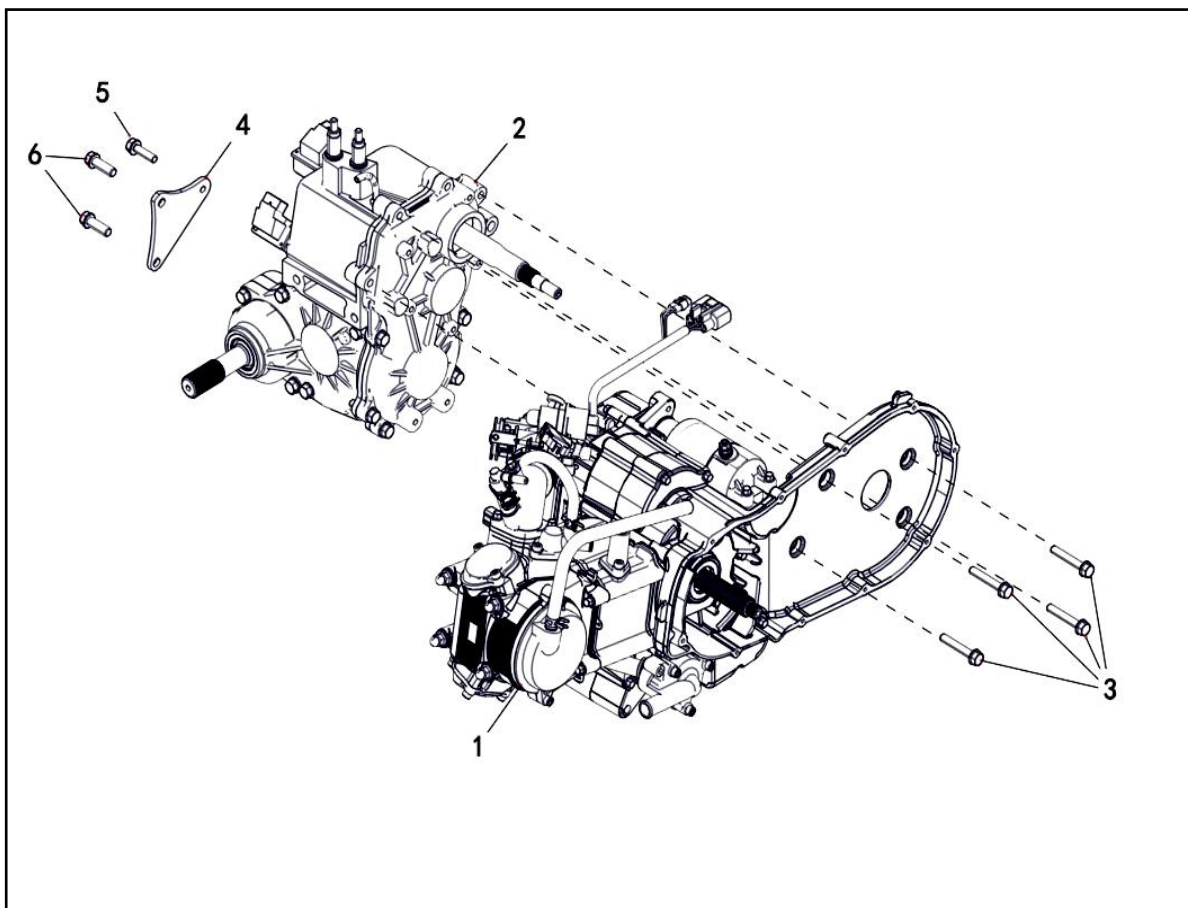


Ref. No.	Part No.	Description	Qty.
1	47688	Front Prop Shaft	1
2	11249	Bolt M8x1.0x25	4
3	10106	Spring Washer 8	4
4	11788	Washer 8	4
5	47689	Rear Prop Shaft	1
6	11850	Bolt M10x1.25x32	6
7	11165	Spring Washer 10	6

Rear Axle Installation

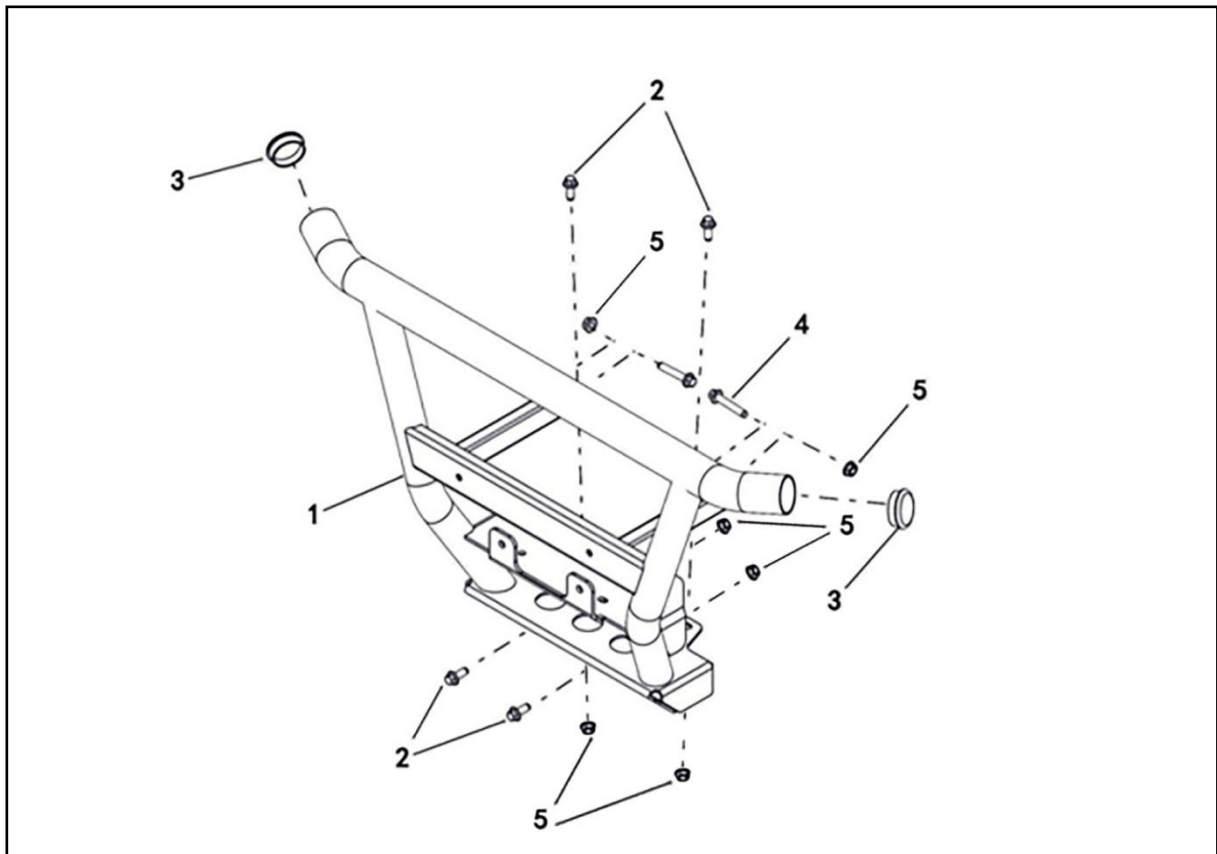


Ref. No.	Part No.	Description	Qty.
1	47685	Rear Axle	1
2	47686	Bracket, Lwr, Rear Axle	1
3	11272	Bolt M10×1.25×110	4
4	11287	Nut M10	10
5	11851	Bolt M10×1.25×50	2
6	11036	Bolt M10×1.25×20	2
7	47687	Bracket, Upper, Rear Axle	1
8	10783	Bolt M8×20	4
9	10882	Nut M8	4
10	48377	Breathing Air	1
11	25107	Clip	2
12	48191	Buckle	1
13	21111	Vent Pipe	1

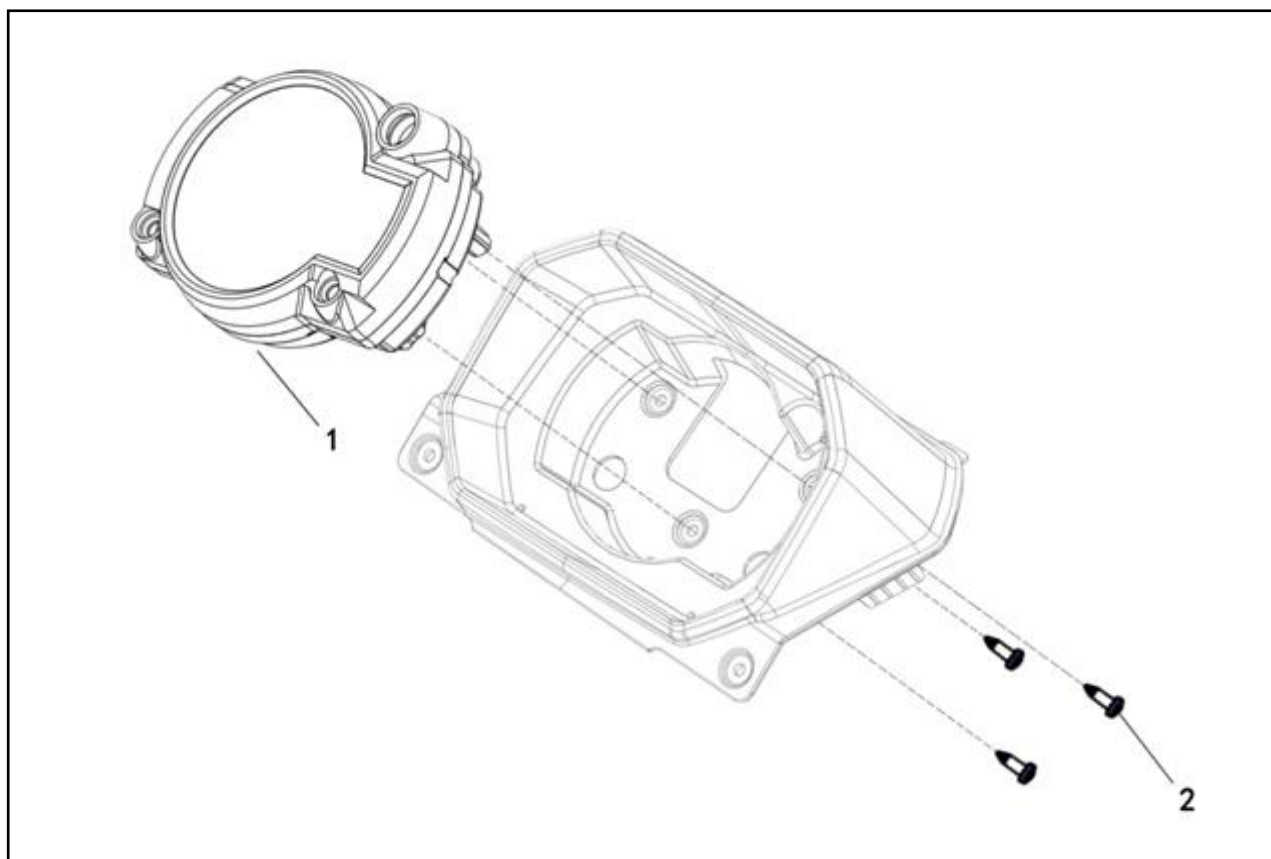


Ref. No.	Part No.	Description	Qty.
1	47515	Engine (LH180MQ-3B)	1
2	47516	Transmission Assy	1
3	11838	Bolt M8x55	4
4	47517	Connecting Plate, Engine	1
5	11236	Bolt M8x16	1
6	11802	Bolt M10x1.25x25	2

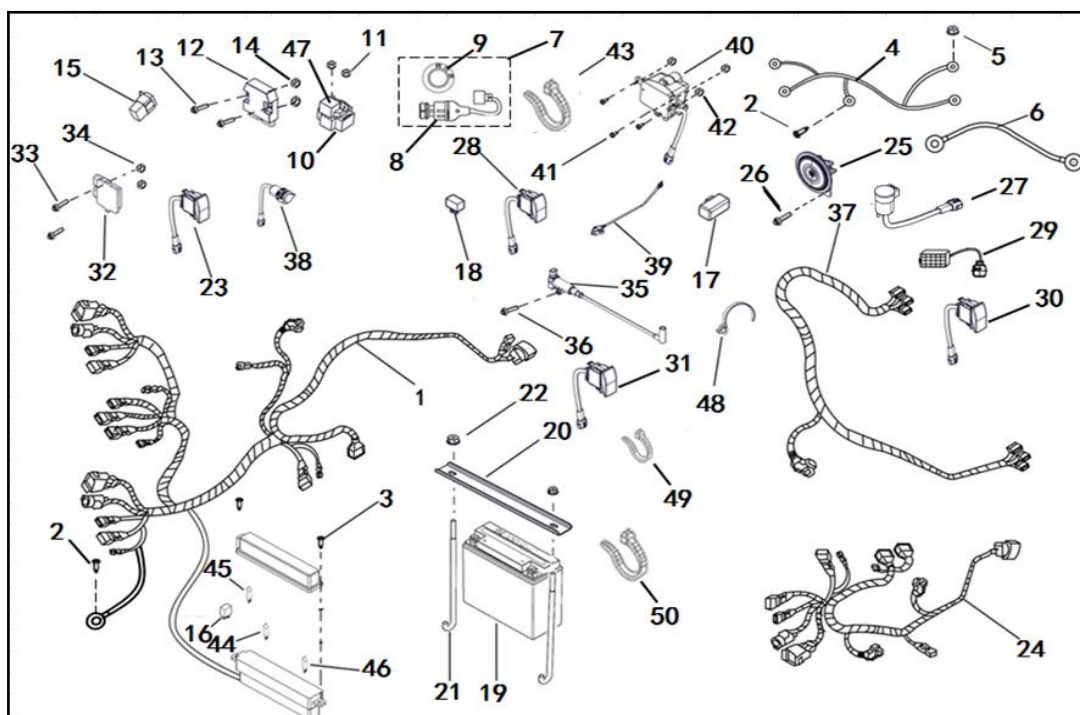
Bumper



Ref. No.	Part No.	Description	Qty.
1	47713	Front Bumper	1
2	10783	Bolt M8x20	4
3	26763	Plug	2
4	11101	Bolt M8x45	2
5	10882	Nut M8	6

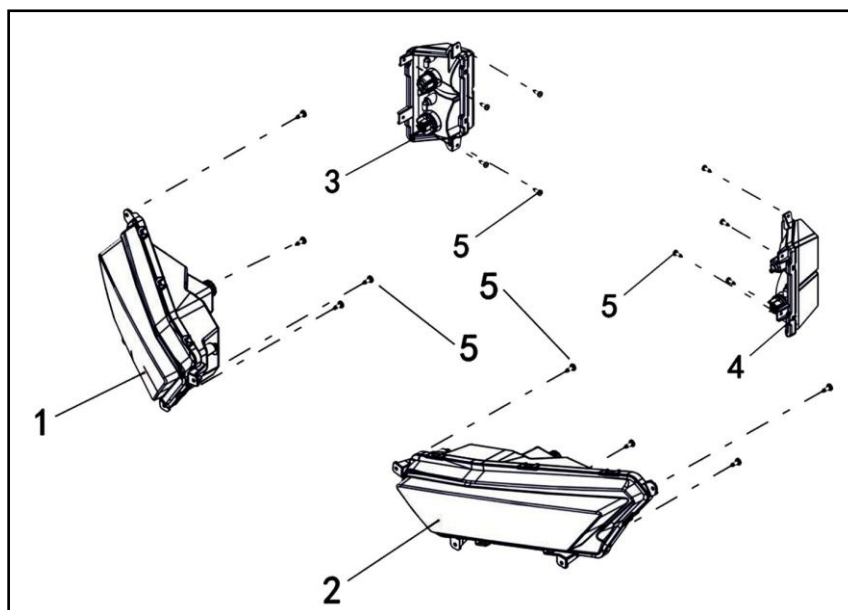


Ref. No.	Part No.	Description	Qty.
1	47694	Bracket, Meter	1
2	48316	Tapping Screw M5 ×16	3

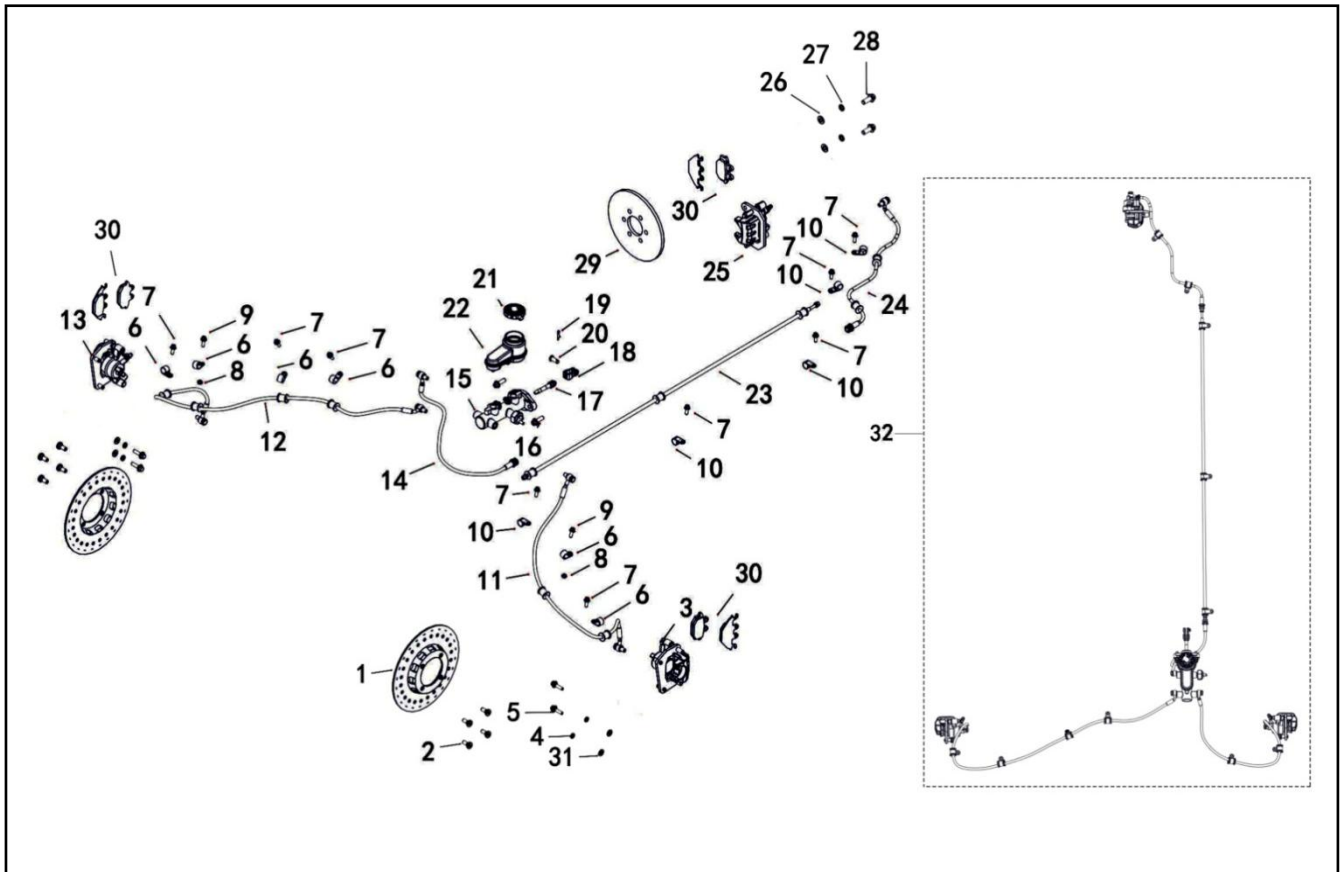


Ref. No.	Part No.	Description	Qty.
1	47695	Wiring Harness	1
2	11495	Bolt M6×16	2
3	48316	Tapping Screw M5 ×16	2
4	47696	Cable Of Starting 1	1
5	10913	Nut M6	1
6	47697	Cable Of Starting 2	1
7	48397	Lock Assy	1
8	48295	Lock	1
9	48551	Lock Decal	1
10	71602	Starting Relay	1
11	11233	Nut M6	2
12	71603	Rectifier Regulator	1
13	11496	Bolt M6×30	2
14	11176	Nut M6	2
15	71976	Reversing Buzzer	1
16	35083	Auxiliary Relay	3
17	71474	Efi Relay	1
18	26272	Protector	2
19	70407a	Battery (12V 18AH)	1
20	48327	Plate For Battery	1
21	47699	Fastening Rod of Battery	2
22	10882	Nut M8	2
23	47700	High/Low Beam Switch	1
24	47701	Wiring Harness for EFI	1
25	70404	Horn	1

26	11495	Bolt M6×16	1
27	27438	Flasher Relay Assy	1
28	47072	Turning Lights Switch	1
29	73439	Wire, Turning Lights Switch	1
30	48298	Horn Switch	1
31	73547	Tractor Switch	1
32	27909	Ecu	1
33	10183B	Bolt M6×16	2
34	11233	Nut M6	2
35	70822D	Ignition Coil	1
36	11260	Bolt M6×40	1
37	47702	Taillight Transition Line	1
38	36120	Accessory Socket Assy for USB	1
39	48293	Parking Switch	1
40	47703	4WD Switch	1
41	48316	Tapping Screw M5 ×16	3
42	48314	Spring Nut M5	3
43	47704	Tie	3
44	48360	5 Amp Fuse	2
45	48361	10 Amp Fuse	2
46	48362	15 Amp Fuse	2
47	84275	30 Amp Fuse	1
48	48294	Tie 38	4
49	11334	Tie 7	5
50	55016	Tie 20	2

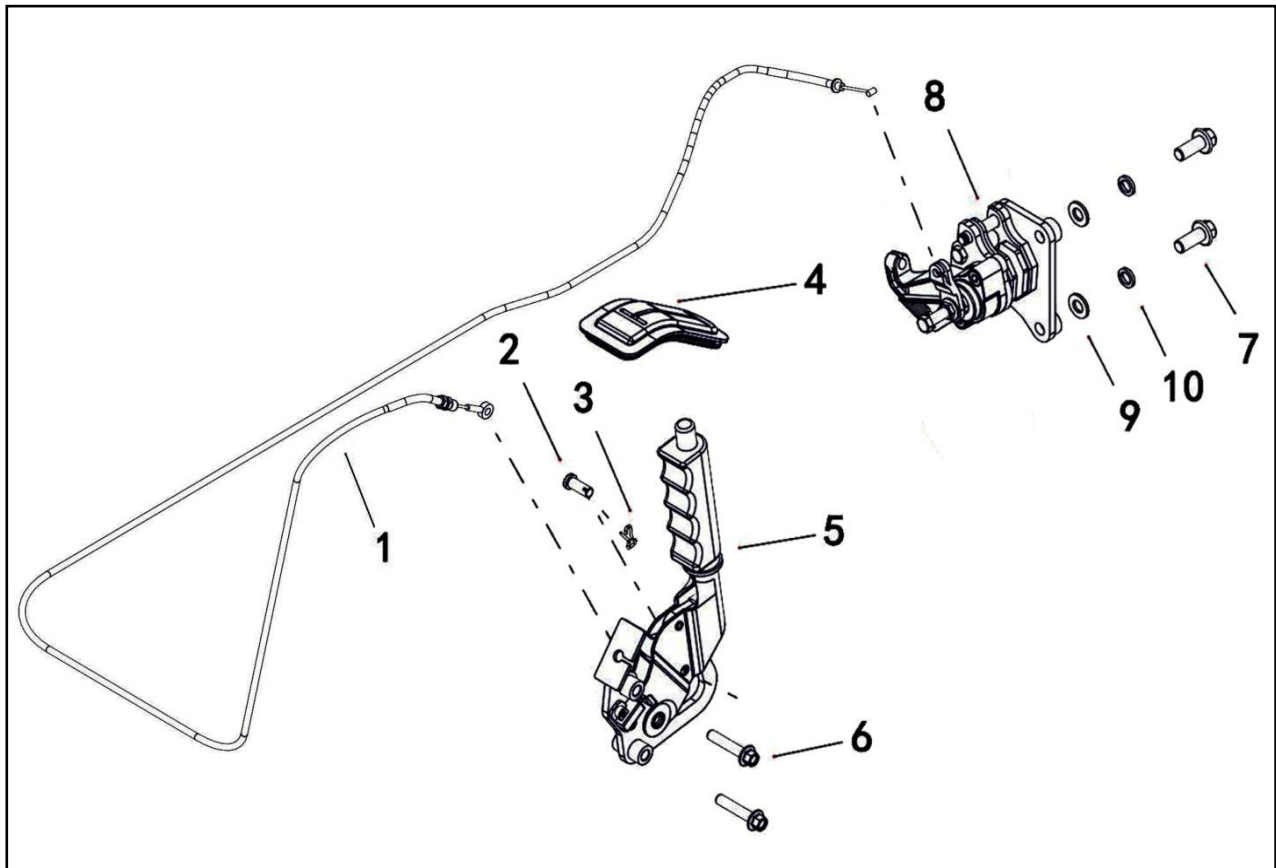


Ref. No.	Part No.	Description	Qty.
1	47690	Headlight, R	1
2	47691	Headlight, L	1
3	47692	Taillight, R	1
4	47693	Taillight, L	1
5	48316	Tapping Screw M5 ×16	16

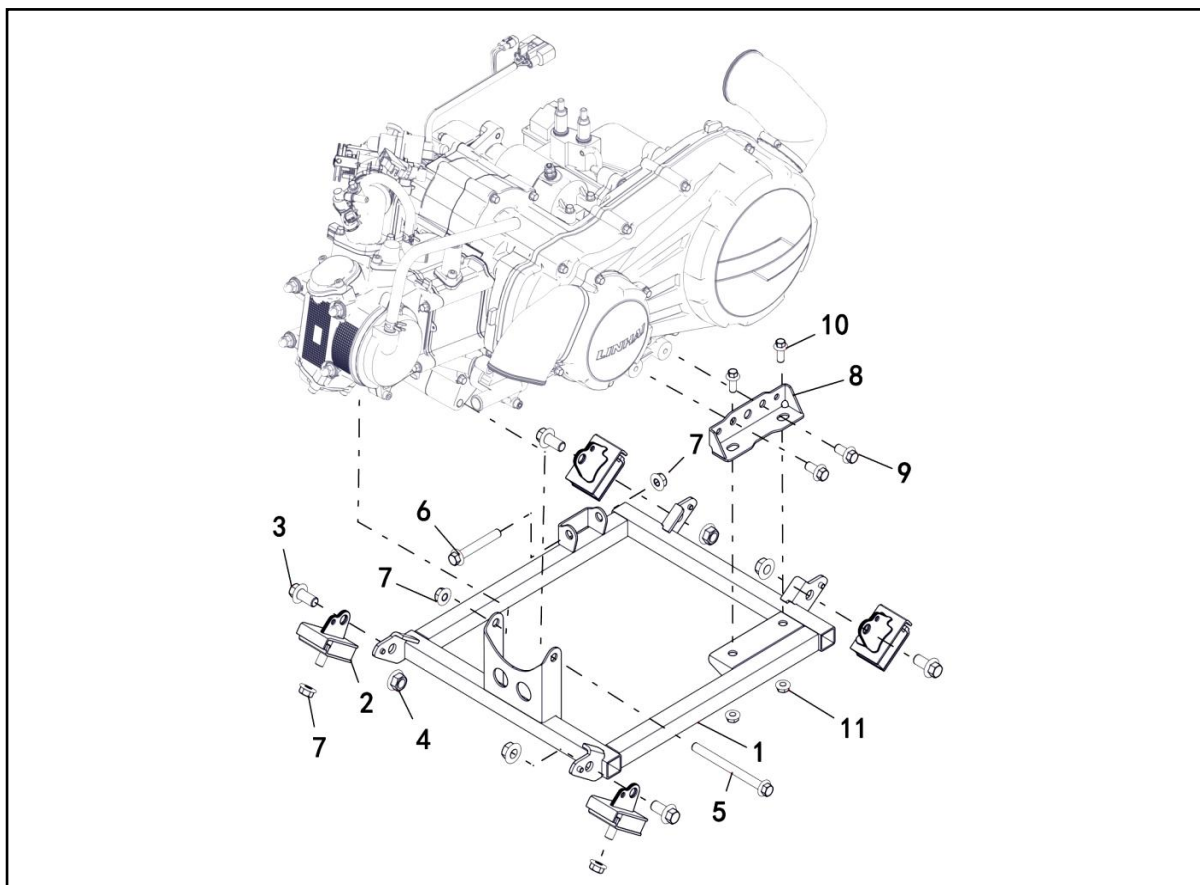


Ref. No.	Part No.	Description	Qty.
1	48181	Brake Rotor, Driver	2
2	48000	Bolt, Brake Rotor	8
3	48173	Brake Caliper, Left, Front	1
4	10106	Spring 8	4
5	11466	Bolt M8×25 (10.9)	4
6	48182	Clamp 1	6
7	11495	Bolt M6x16	9
8	11233	Nut M6	2
9	11459	Bolt M6×20	2
10	48183	Clamp 2	5
11	48180	Hose 1	1
12	48184	Hose 2	1
13	48174	Brake Caliper, Right, Front	1
14	48185	Hose 3	1
15	48175	Master Cylinder	1
16	10059	Bolt M8×25	2
17	47705	Push Rod	1
18	73090	Clevis	1
19	10094	Cotter Pin 2×20	1
20	73091	Clevis Pin	1
21	48179	Brake Reservoir, Cover	1
22	48178	Brake Reservoir	1
23	48190	Tube	1
24	48186	Hose 4	1
25	47706	Brake Caliper, Middle	1
26	11021	Spring 10	2
27	11330	Washer 10	2
28	11802	Bolt M10×25	2
29	35075	Park Brake Disc	1
30	48414	Brake Pads	3
31	11788	Washer 8	4
32	47707	Brake Assembly	1

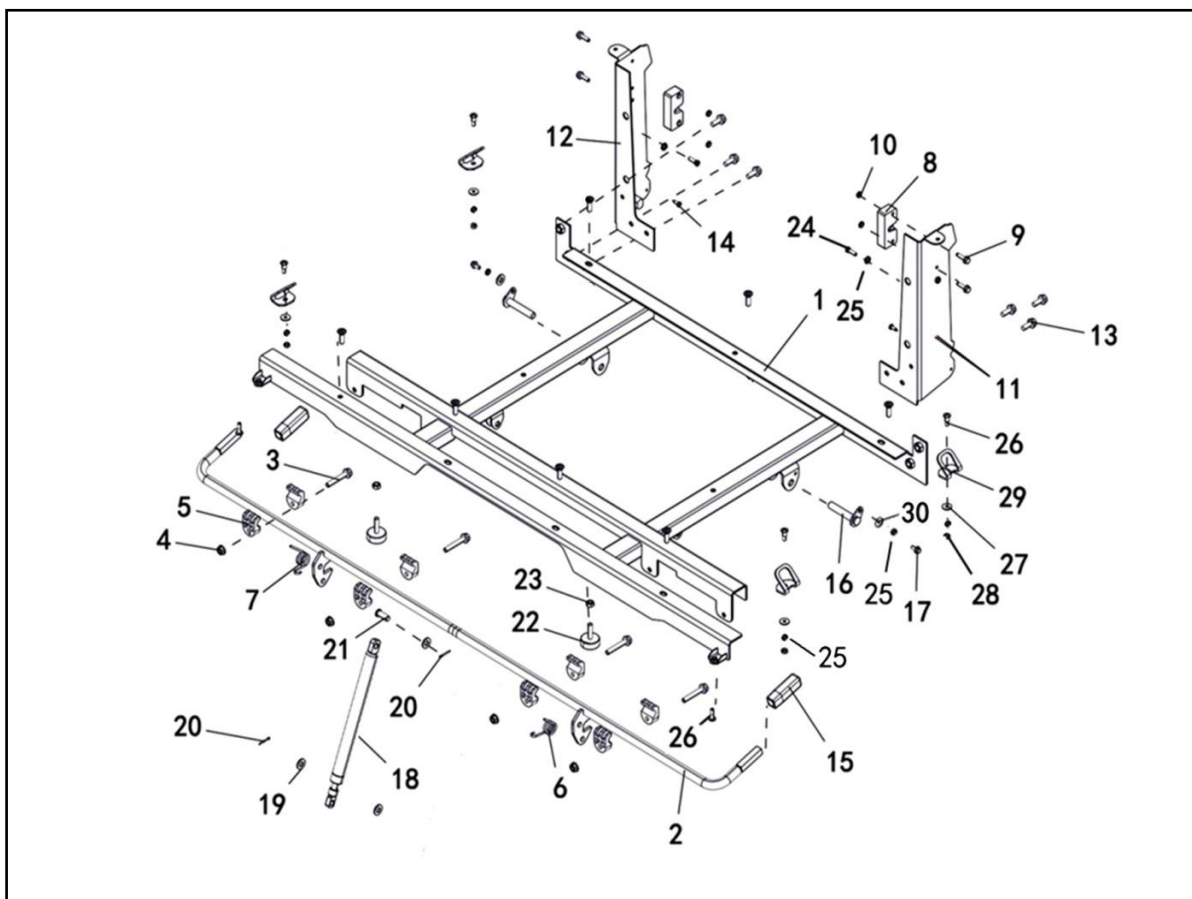
Park Brake Asm



Ref. No.	Part No.	Description	Qty.
1	48197	Park Brake Cable	1
2	48171	Pin Axle	1
3	48172	Pin, R	1
4	48170	Rubber, Park Brake	1
5	48169	Park Brake Lever	1
6	11045	Bolt M8x40	2
7	11802	Bolt M10x1.25x25	2
8	47708	Brake (Caliper)	1
9	11021	Spring Washer 10	2
10	11330	Washer 10	2

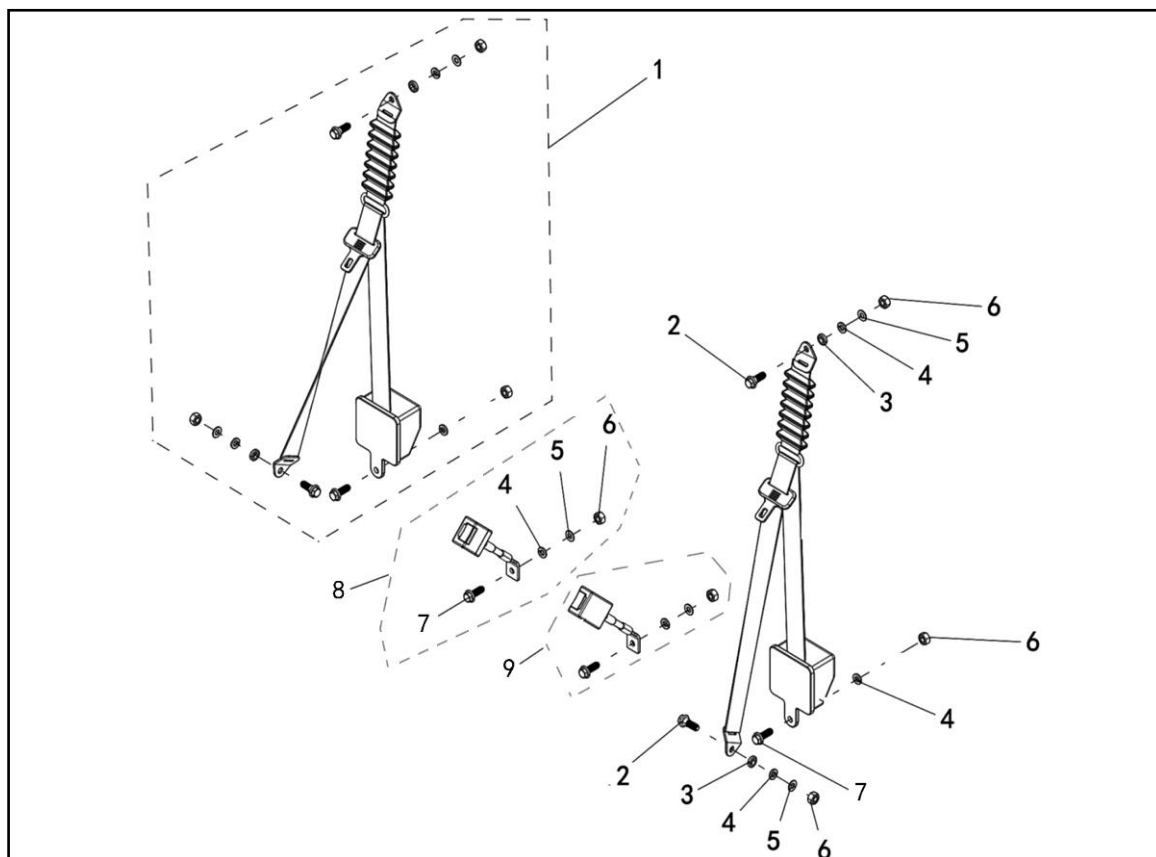


Ref. No.	Part No.	Description	Qty.
1	47723	Engine Mount Bracket	1
2	35503	Damper, Rubber	4
3	11727	Bolt M12x1.25x30	4
4	11480	Nut M12	4
5	11790	Bolt M10x1.25x115	1
6	11647	Bolt M10x1.25x70	1
7	11287	Nut M10	6
8	47727	Bracket, Transmission	1
9	11849	Bolt M10x20	2
10	11461	Bolt M8x20	2
11	10882	Nut M8	2

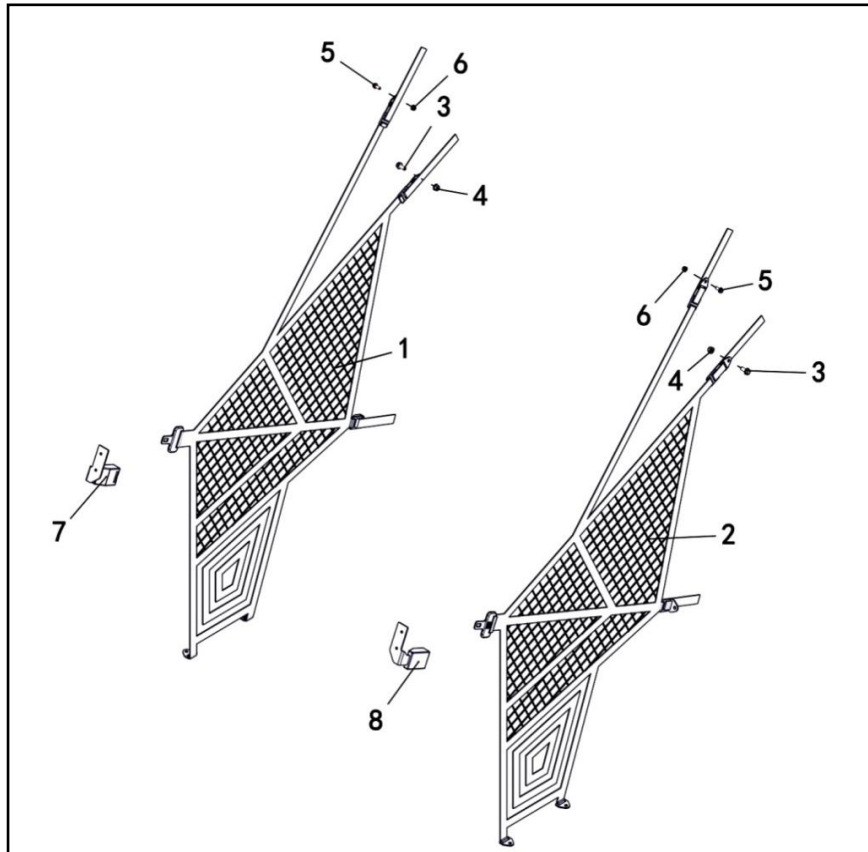


Ref. No.	Part No.	Description	Qty.
1	47729	Box Floor Cover	1
2	47730	Cargo Handle Assy	1
3	11101	Bolt M8x45	4
4	10882	Nut M8	4
5	48134	Rubber Sheath 8	6
6	48135	Pedal Spring, L	1
7	47732	Pedal Spring, R	1
8	48139	Lock Seat, Rear Trunk	2
9	11459	Bolt M6x20	4
10	11319	Nut M6	4
11	47731	Rear Side Protecting Plate, Lh	1
12	47732	Rear Side Protecting Plate, Rh	1
13	10783	Bolt M8x20	6
14	48316	Tapping Screw M5 x16	2
15	55053	Cap, Protector End	2
16	48313	Pin Shaft, Rotation	2
17	10140B	Bolt M6x12	2
18	26784	Damper	1
19	11330	Washer 10	3
20	27215	Pin 2.5x25	2
21	73161	Pin Axle	1
22	48151	Damper, Cargo Box Adjusting	2
23	11483	Nut M8	2
24	48147	Bolt 2	2
25	11019	Spring Washer 6	8
26	46193	Bolt M6x20	4
27	11245	Washer 6	4
28	11233	Nut M6	4
29	48153	Hook	4
30	11245	Washer 6	2

Seat Belt

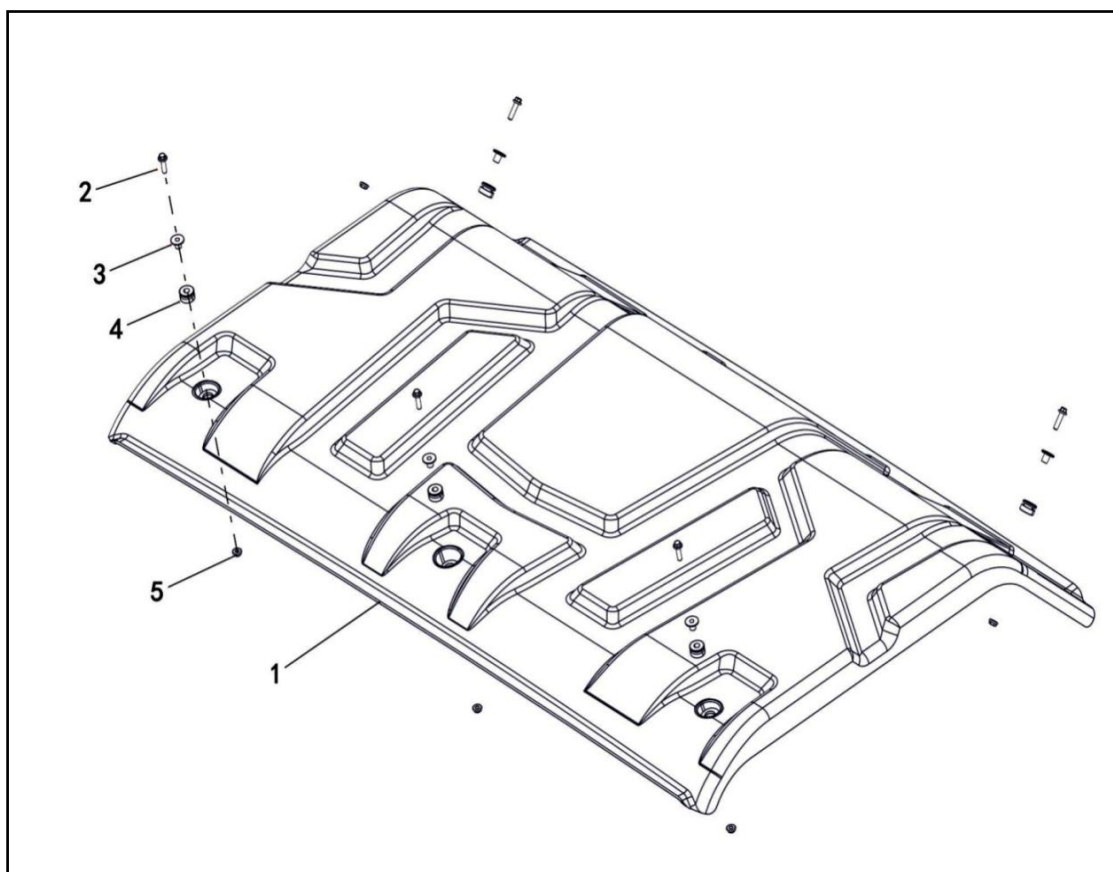


Ref. No.	Part No.	Description	Qty.
1	48380	Seat Belt Assy	2
2	48381	Bolt 1	4
3	48382	Washer 1	4
4	10805	Spring Washer 12	8
5	48384	Washer 2	6
6	48385	Nut 8	7
7	48386	Bolt 2	4
8	48387	Belt Receiver Assy, R	1
9	48388	Belt Receiver Assy, L	1

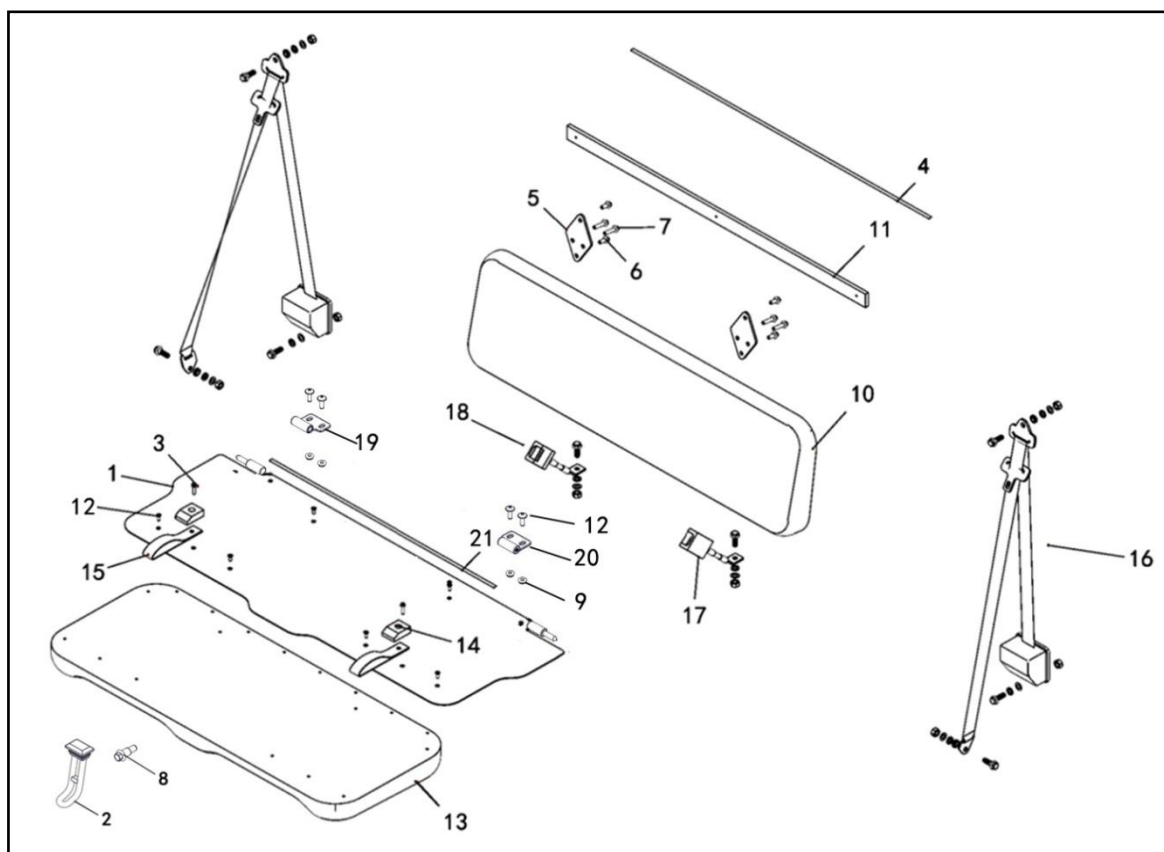


Ref. No.	Part No.	Description	Qty.
1	48275	Net, Side, R	1
2	48276	Net, Side, L	1
3	10783	Bolt M8x20	2
4	10882	Nut M8	2
5	11495	Bolt M6x16	2
6	11233	Nut M6	2
7	48273	Asm., Clip, Net, R	1
8	48274	Asm., Clip, Net, L	1

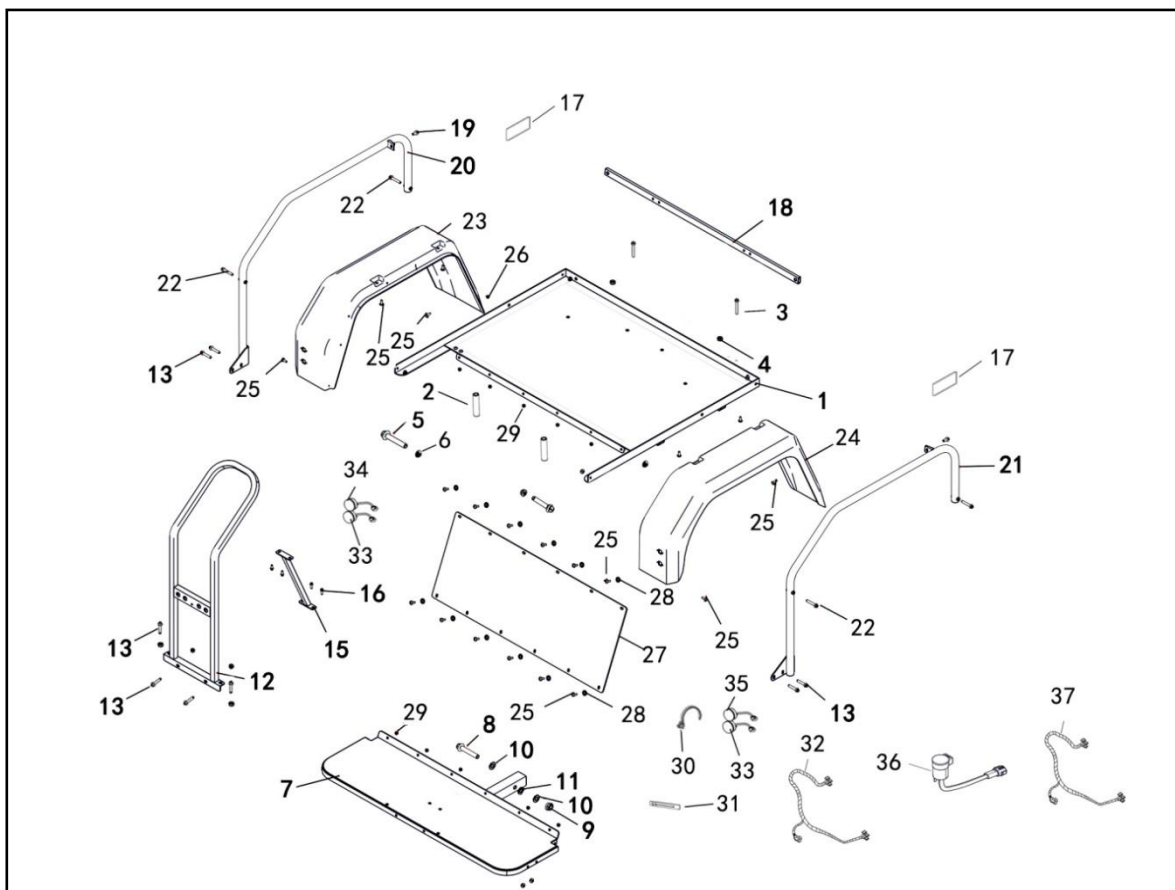
Options (Roof Panel)



Ref. No.	Part No.	Description	Qty.
1	47733	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

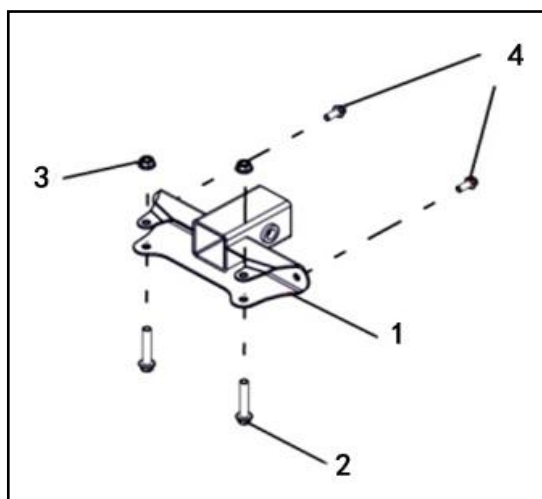


Ref. No.	Part No.	Description	Qty.
1	48528	Seat Assy, Bracket	1
2	47734	Rubber Lock	1
3	10187B	Bolt M6×25	2
4	47735	Package Edge Fillet, Roof Panel	1
5	48529	Back Rest, Bracket	2
6	10081	Bolt M8×20	4
7	10124	Bolt M8×35	4
8	48152	Bolt M6×22	1
9	11233	Nut M6	4
10	48531	Back Rest	1
11	48532	Head Rest, Sponge Bars	1
12	73056	Bolt M6×20	12
13	46065	Seat Assy	1
14	26382	Buffer Rubber	2
15	48534	Seat Strap	2
16	46066	Safety Belt	2
17	48130	Belt Receiver Assy, right	1
18	48131	Belt Receiver Assy, Left	1
19	47736	Hinge, L	1
20	47737	Hinge, R	1
21	47738	Sealing Strip	1



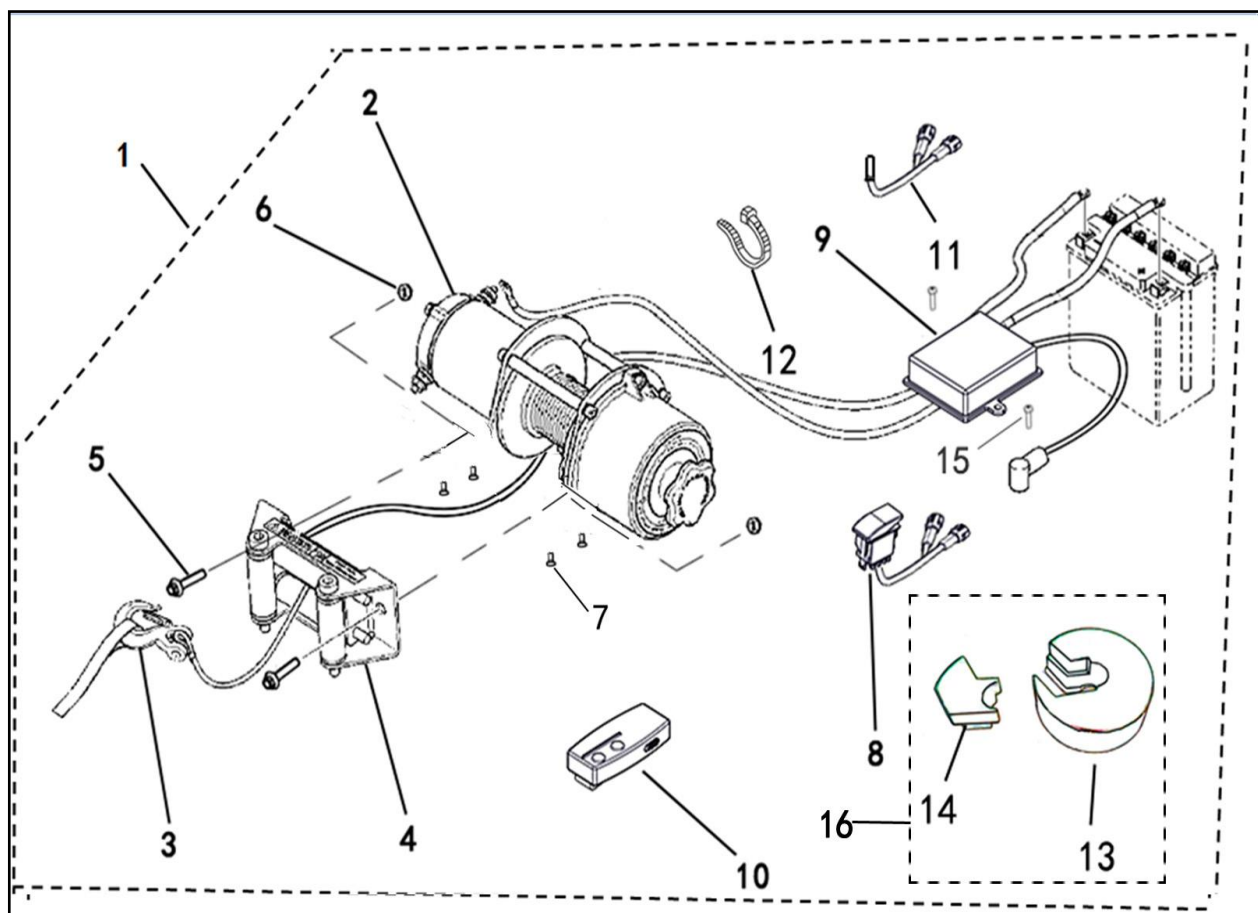
Ref. No.	Part No.	Description	Qty.
1	47739	Rear Passenger, Bracket	1
2	47740	Spacer	2
3	11354	Bolt M10x1.25x90	2
4	10795	Nut M10x1.25	2
5	11650	Bolt M12x1.25x75	2
6	11480	Nut M12x1.25	2
7	47742	Pedal Plate	1
8	10964	Bolt M16x95	1
9	11389	Nut M16	1
10	11247	Washer 16	2
11	27050	Spring Washer 16	1
12	47743	Passenger Armrest	1
13	11101	Bolt M8x45	8
14	10882	Nut M8	12
15	47744	Passenger Armrest, Bracket	1
16	11495	Bolt M6x16	4
17	71960	Front Reflector	2
18	47745	Bracket	1
19	10783	Bolt M8x20	2
20	47746	Pedal Passenger, Linkage, L	1
21	47747	Pedal Passenger, Linkage, R	1
22	10403	Bolt M8x50	4
23	47748	Fender, Left	1
24	47749	Fender, Right	1
25	73056	Bolt M6x20	20
26	11192	Nut M6	2
27	48543	Fender, Rear	1
28	11390	Washer 8	12
29	11233	Nut M6	12
30	48294	Tie 1	3
31	35247	Clip	10
32	47750	Taillight Transition Line	1
33	36844	Taillight	2
34	36125	Turn Indicate Light, L, Rr	1
35	36127	Turn Indicate Light, R, Rr	1
36	73326	Flasher Relay Assy	1
37	46296	Flash Apparatus Connecting Line	1

Options (Bracket, Hitch)



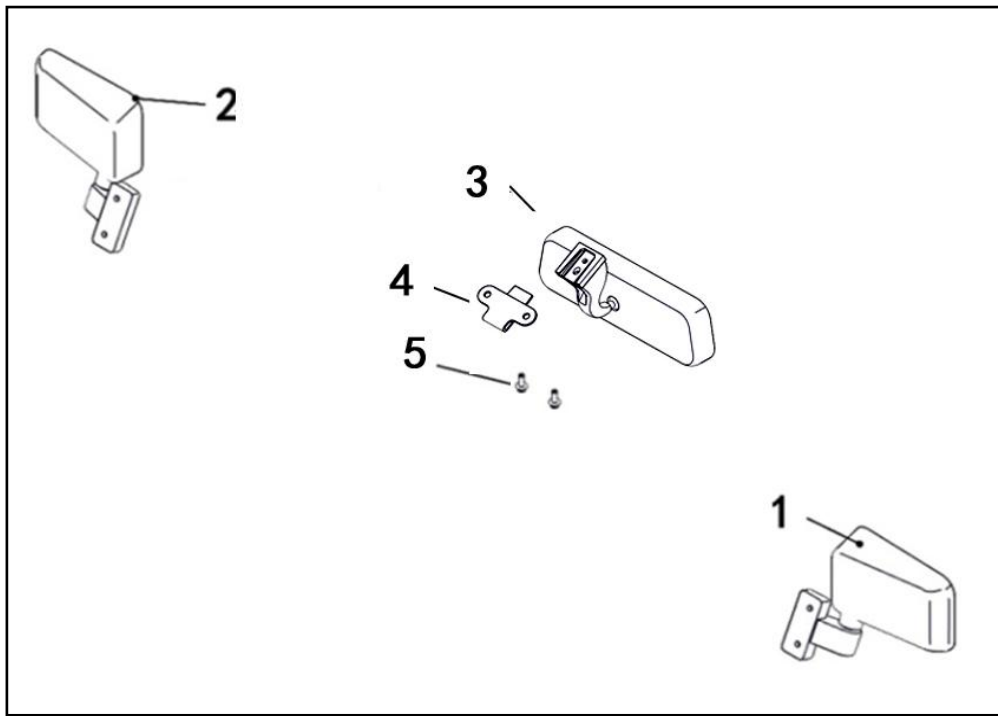
Ref. No.	Part No.	Description	Qty.
1	47751	Bracket, Hitch	1
2	11238	Bolt M10×1.25×57	2
3	10795	Nut M10	2
4	10783	Bolt M8X20	2

Options (Tractor)



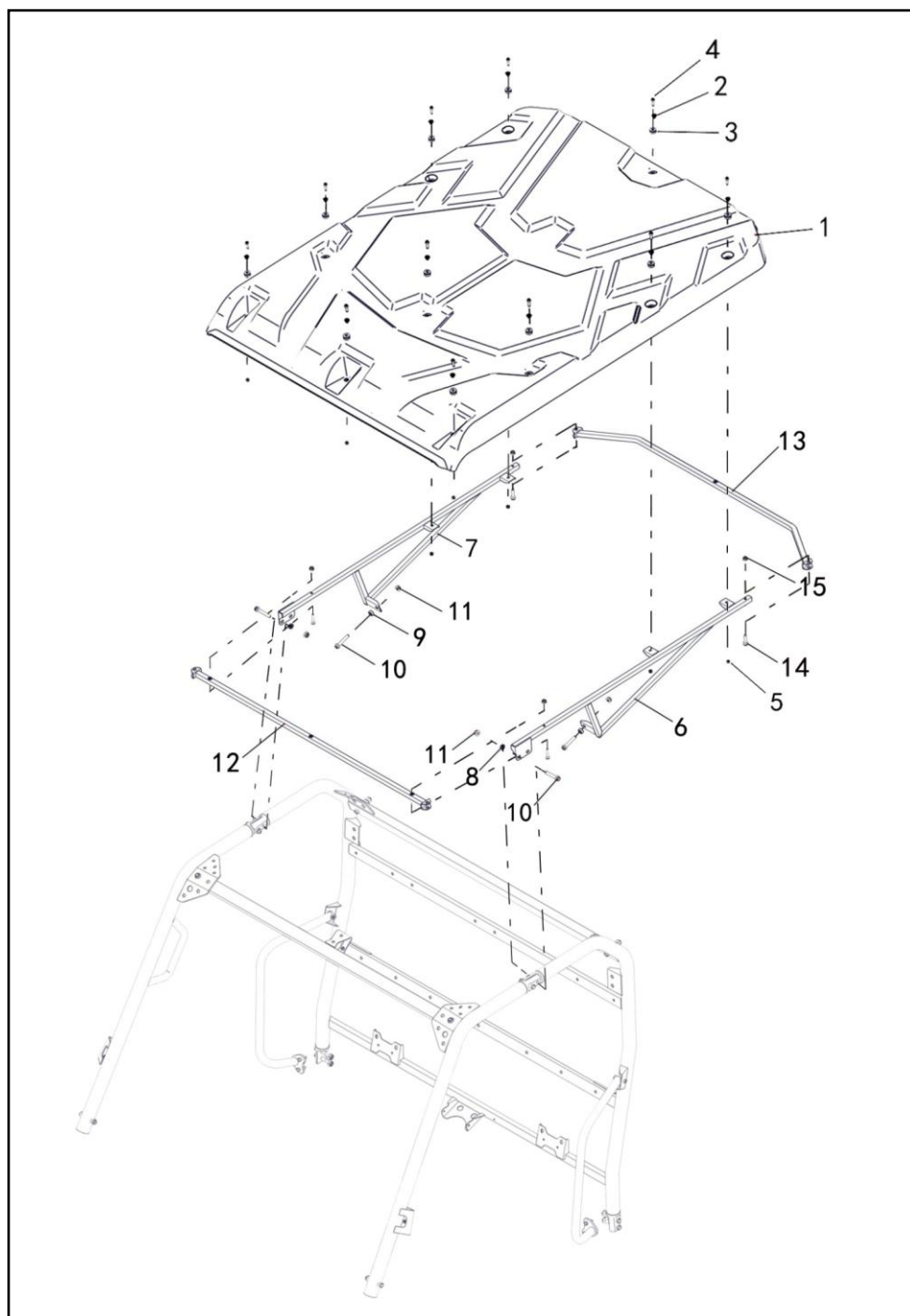
Ref. No.	Part No.	Description	Qty.
1	47752	Tractor Assy	1
2	47753	Tractor	1
3	73545	Tow Hook	1
4	73546	Slideway	1
5	10783	Hexagon Flange Bolt M8×20	2
6	11145	Prevailing Torque Type All-Metal Hexagon Nut M8	2
7	11651	Bolt M6X16	4
8	73547	Switch	1
9	48368	Controller	1
10	73549	Remote Control	1
11	48369	Temperature Sensor	1
12	11334	Tie 1	1
13	48370	Ring Stopper 1	1
14	48371	Ring Stopper 2	1
15	11529	Screw M5X16	2
16	48671	Ring Stopper Assy	1

Options (MIRROR)

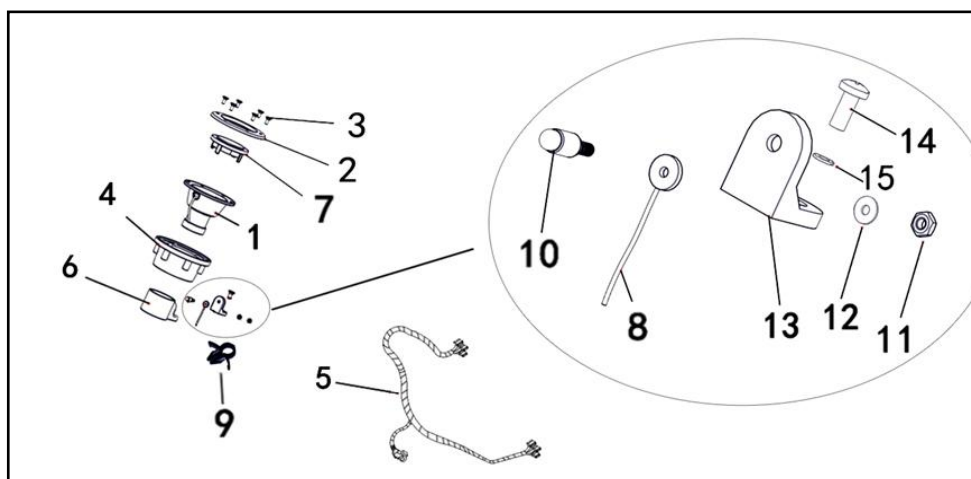


Ref. No.	Part No.	Description	Qty.
1	48416	Rear View Mirror, L	1
2	48417	Rear View Mirror, R	1
3	48545	Center Mirror Kit	1
4	48546	Bracket, Center Mirror Kit	1
5	11495	Bolt M6×16	2

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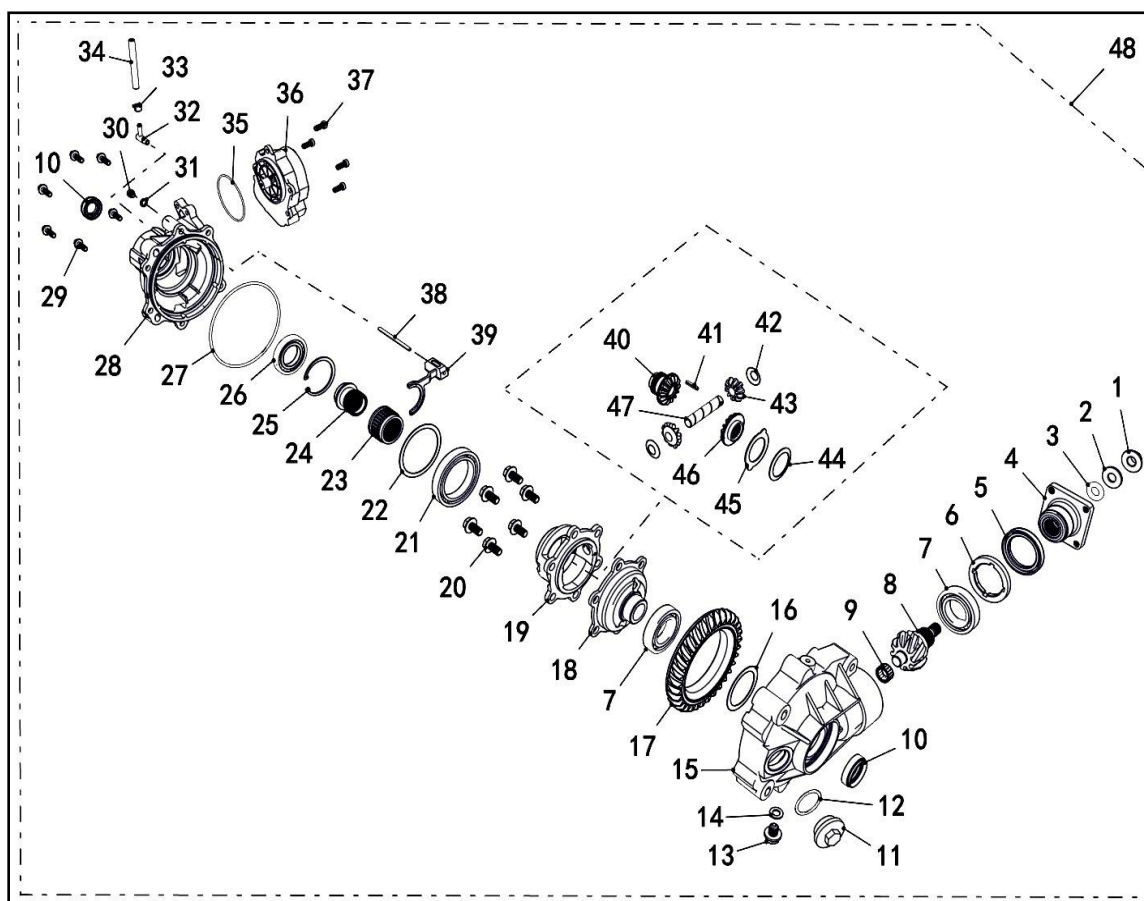
Ref. No.	Part No.	Description	Qty.
1	56321	Long Roof Panel	1
2	48256	T-Shaped Liner Bushing	11
3	48257	I-Shaped Rubber Damper	11
4	48268	Hexagon Flange Bolt M6×25	11
5	11233	Nut M6	7
6	56322	Bracket, L	1
7	56323	Bracket, R	1
8	48382	L5 Thick Washer	2
9	56324	Washer, L	2
10	11238	Bolt M10×1.25X57	4
11	10795	Nut M10	4
12	56325	Bracket, Middle	1
13	56326	Bracket, Rear	1
14	10124	Bolt M8×35	4
15	10882	Nut M8	4



Ref. No.	Part No.	Description	Qty.
1	47791	Steering Wheel Holder	1
2	47792	Steering Cover	1
3	47793	Screw M5X20	6
4	47794	Cover, Steering Wheel Holder	1
5	47795	Horn Switch Transition Line	1
6	47796	Cover, Steering Column Assy.	1
7	47797	Horn Switch	1
8	47798	Wire, Horn Switch	1
9	47799	Tie	2
10	47800	Horn Contacts	1
11	11710	Nut M3	1
12	11297	Washer 4	1
13	47801	Horn Contacts Holder	1
14	11471	Screw M5X12	1
15		Washer 5	1

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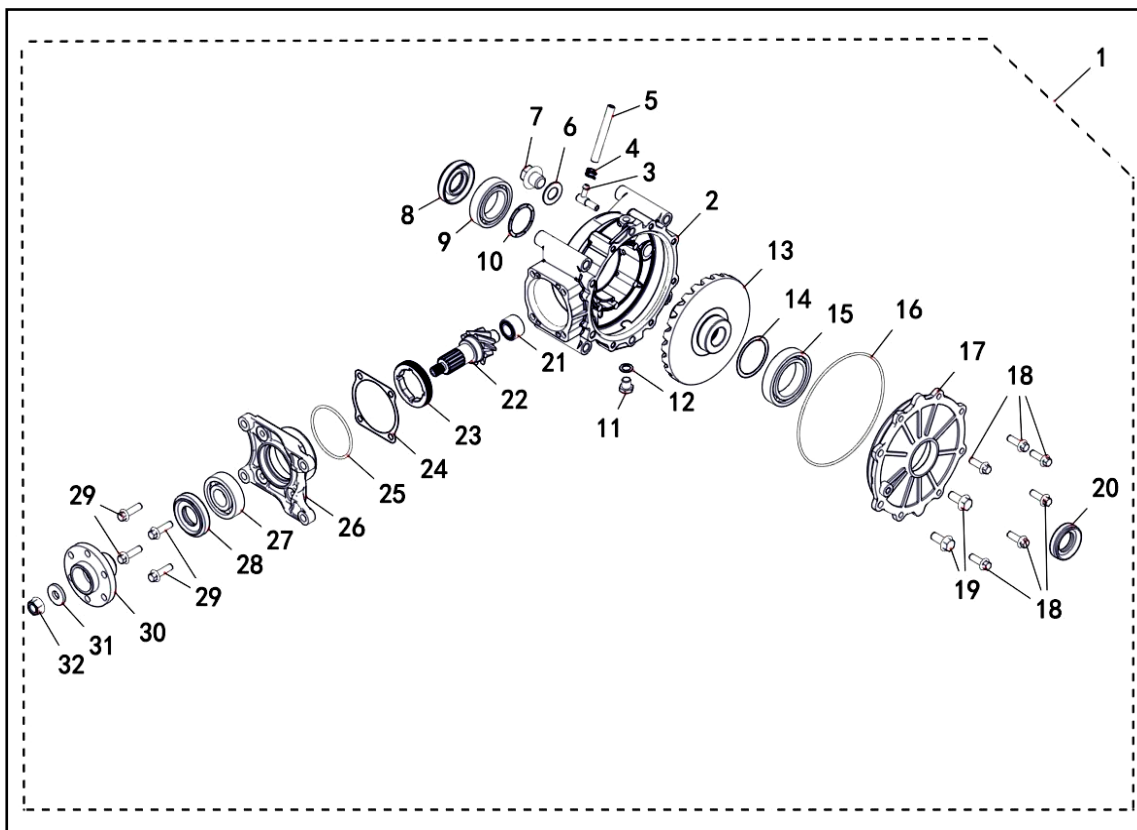
Front Gear-box



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	47715	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	73090	Drain Bolt	1
14	73021	Washer 10	1
15	48285	Front Axle Box Cover	1
16	26323	Adjusting Shim (61×48)	as needed
17	47716	Bevel Gear-Driven	1
18	73854	Top Bracket, Differential Gear	1
19	73853	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	10047	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	47717	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	4
45	26326	Shim	1
46	35440	Driven Gear	1
47	26333	Gear Shaft	1
48	47718	Front Axle	1

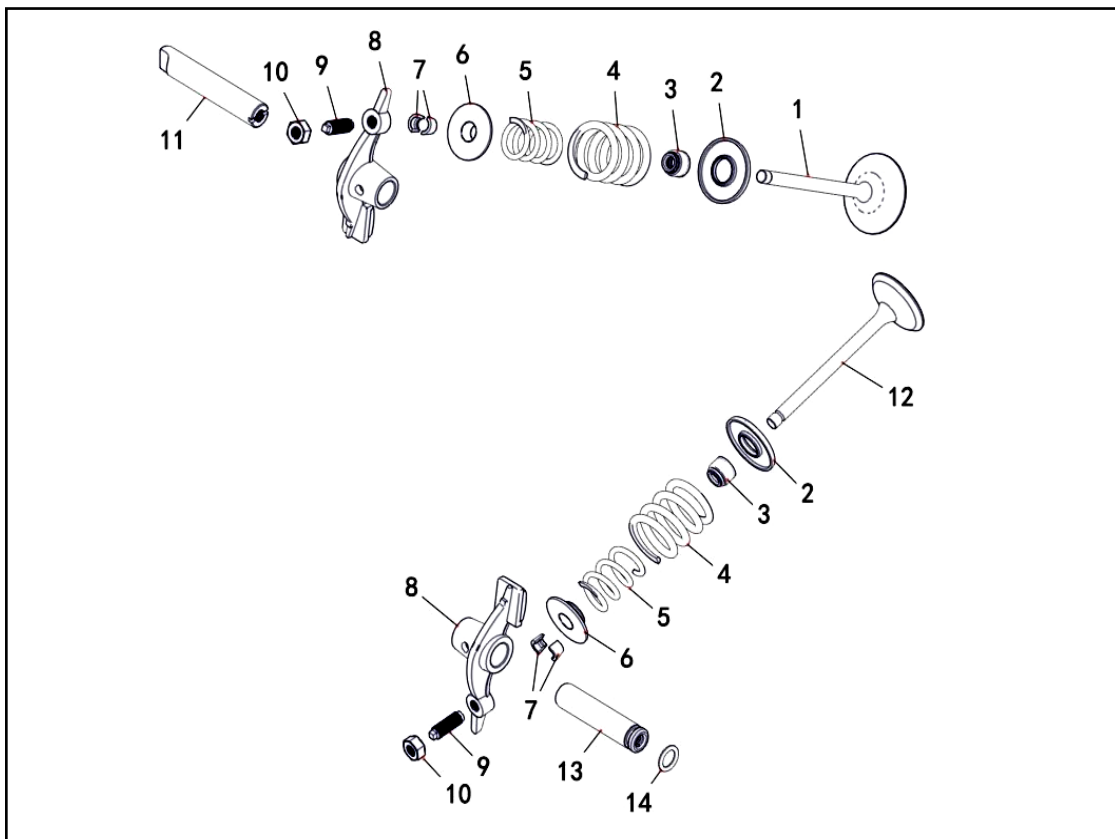
Rear Axle



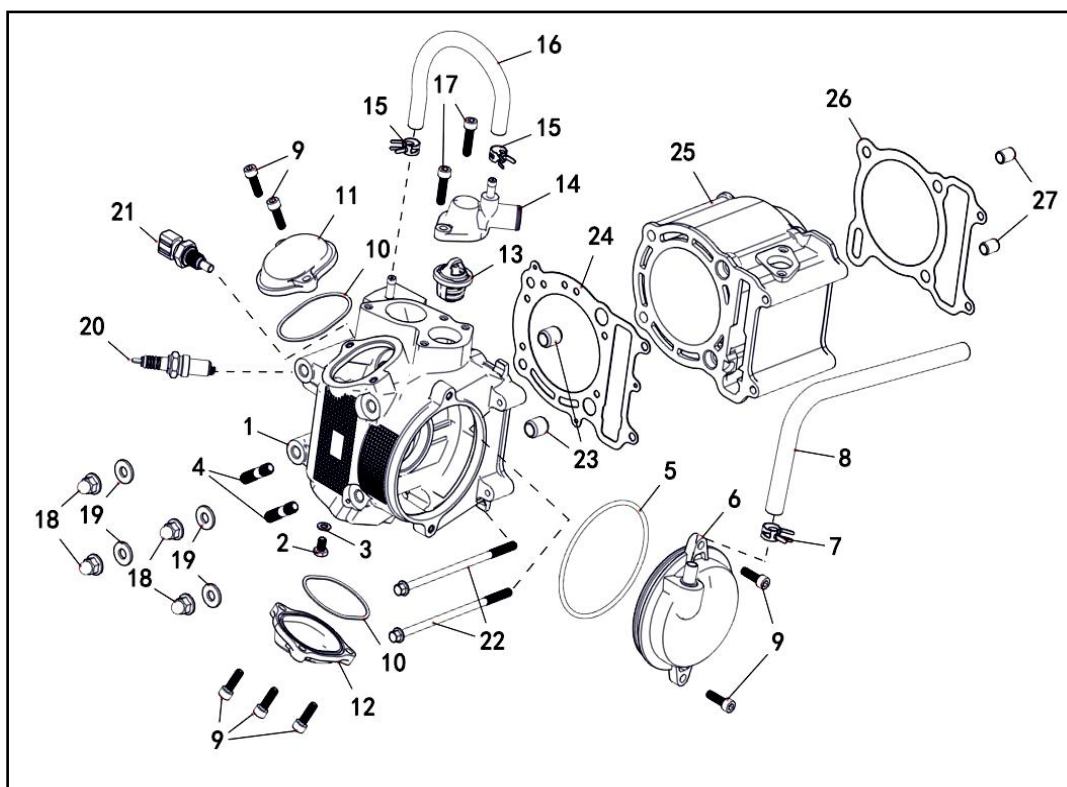
Ref. No.	Part No.	Description	Qty.
1	47685	Rear Axle Assembly	1
2	47719	Rear Gear Case	1
3	47717	Vent Nozzle	1
4	25107	Clamps	1
5	21111	Vent Pipe	1
6	83180	Washer 18	1
7	83179	Bolt M18x1.5	1
8	26303	Oil Seal 30×60×15	1
9	10958	Bearing 6008	1
10	26305	Adjust Shim 48×40.3	as needed
11	83010	Hexagon Head Bolt	1
12	83462	Washer 1	1
13	47720	Driven Bevel Gear Assembly	1
14	26306	Adjust Shim 60.5×50.3	as needed
15	10569	Bearing 6010	1
16	35493	O-Ring 151×3	1
17	26301	Rear Gear Bearing Housing	1
18	11499	Bolt M8×25	6
19	11078	Bolt M10×25	2
20	26302	Oil Seal 30×50×13.5	1
21	35465	Needle Bearing	1
22	47721	Drive Bevel Gear Assembly	1
23	26310	Bearing Retainer M64×1.25×10	1
24	26308	Adjust Shim	as needed

25	26311	O-Ring 69×3	1
26	47722	Bevel Gear Bearing Housing	1
27	35468	Bearing 6305	1
28	35471	Oil Seal $\Phi 35 \times \Phi 61 \times 9$	1
29	11077	Bolt M8×30	4
30	35474	Coupler, Rear Axle	1
31	26309	Washer 12.5×30×4	1
32	35473	Nut M12×1.25	1

Valve

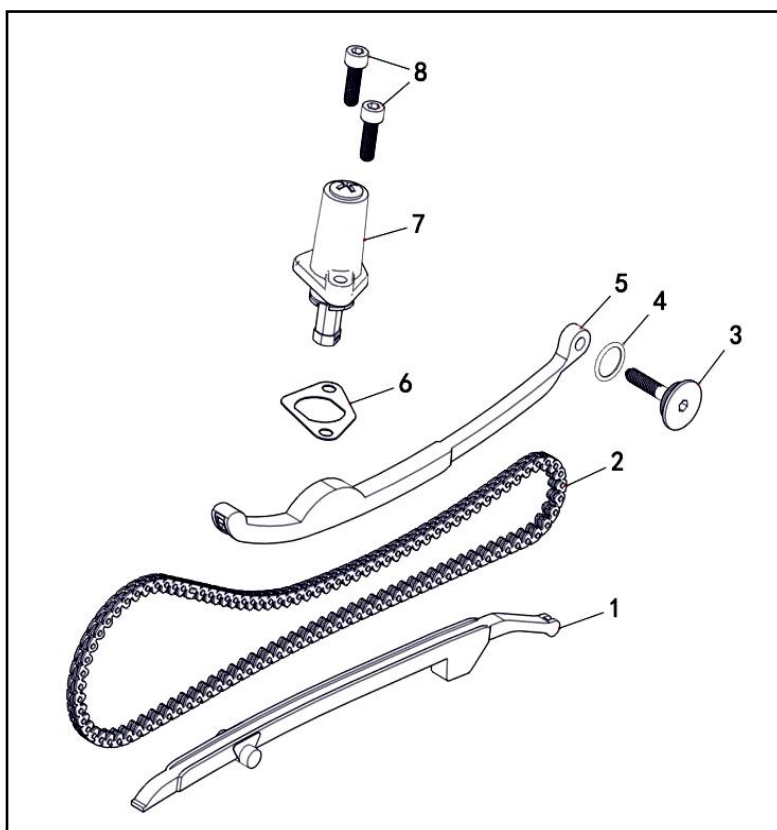


Ref. No.	Part No.	Description	Qty.
1	27222	Intake Valve	1
2	22603	Seat Spring Valve	2
3	22606	Seal Valve Stem	2
4	22605	Spring Valve Outer	2
5	22604	Spring Valve Inner	2
6	22607	Retainer Spring Valve	2
7	22608	Cotter Valve	4
8	22609	Rocker Arm Valve	2
9	22613	Adjusting Screw Valve	2
10	22614	Nut M6×0.75	2
11	22611	Intake Rocker Shaft	1
12	27223	Exhaust Valve	1
13	22610	Exhaust Rocker Shaft	1
14	22612	O-Ring 9×2	1

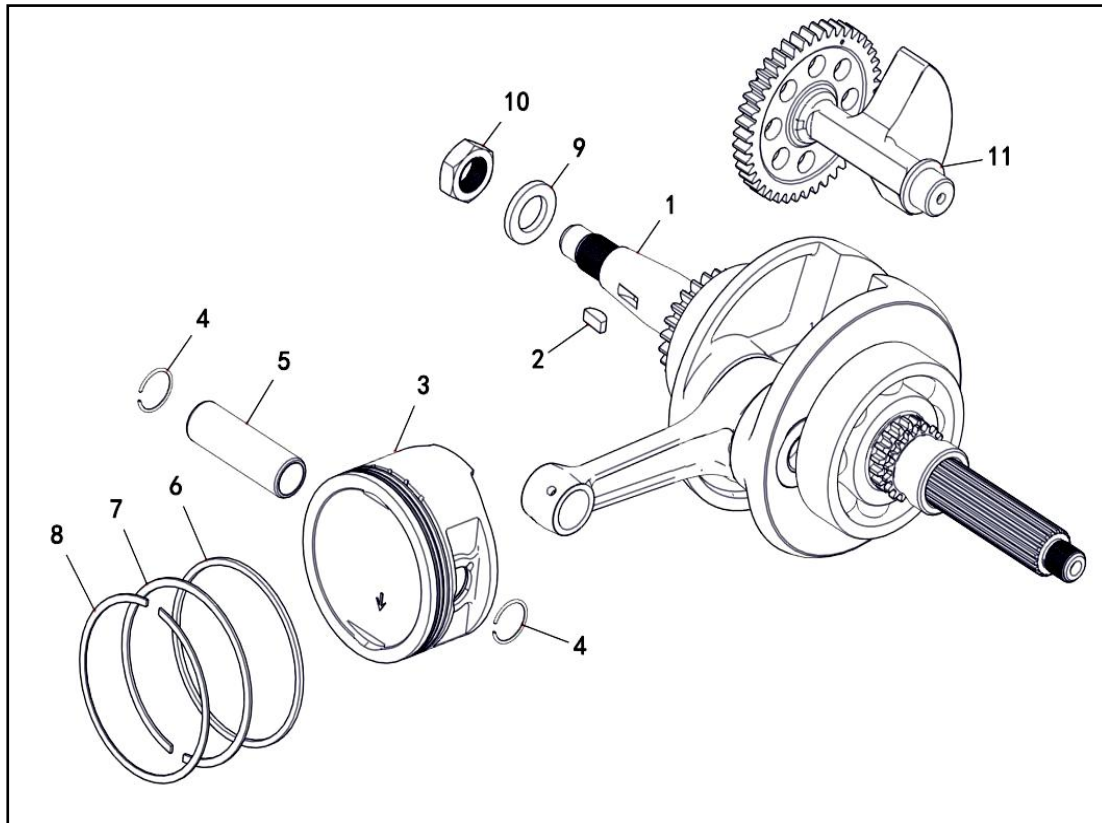


Ref. No.	Part No.	Description	Qty.
1	27693	Cylinder Head Assy	1
2	10086	Bolt M6×12	1
3	22810	Gasket 6	1
4	10014	Bolt Stud M8×25	2
5	22408	O-Ring 95×3.3	1
6	22407A	Breather Assy	1
7	71358	Clip 13MM	2
8	47756	Pipe Breather 1	1
9	10008G	Bolt Socket Head M6×20	7
10	22412	O-Ring 57.5×2.3	2
11	22410	Valve Cover Intake Side	1
12	22411	Valve Cover Exhaust Side	1
13	22901	Thermostat	1
14	22902	Thermostat Cover	1
15	22914	Hose Clamp 2	2
16	27154	Hose 1	1
17	10085G	Socket Head Bolt M6×25	2
18	22414	Nut Crown M8	4
19	22415	Washer Plate 8	4
20	22419	Plug Spark-NGK DR8EA	1
21	35095e	Water Temperature Sensor	1
22	27339	Bolt Flange M6×130	2
23	22417	Pin Dowel 14×16	2
24	27221	Gasket Cylinder Head 1	1
25	27228	Cylinder	1
26	27226	Gasket Cylinder	1
27	35094	Pin Dowel 10×14	2

Chain

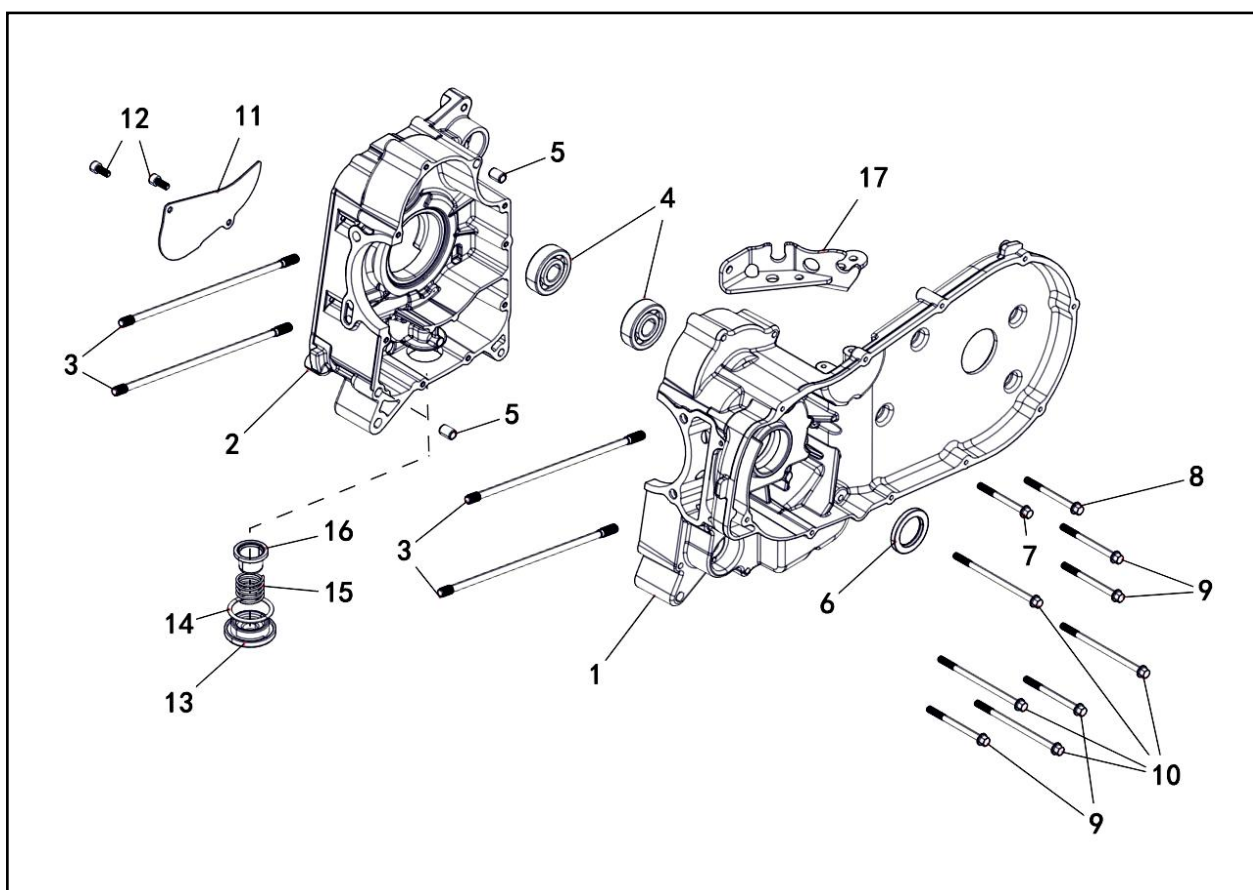


Ref. No.	Part No.	Description	Qty.
1	27203	Guide Stopper 1	1
2	27201	Chain	1
3	22718	Chain Tensioner Pivot Bolt	1
4	22719	O-Ring 14.5×1.8	1
5	27202	Guide Stopper 2	1
6	22716	Gasket Tensioner Case	1
7	22715a	Cam Chain Tensioner Assy	1
8	10008	Socket Head Bolt M6×20	2



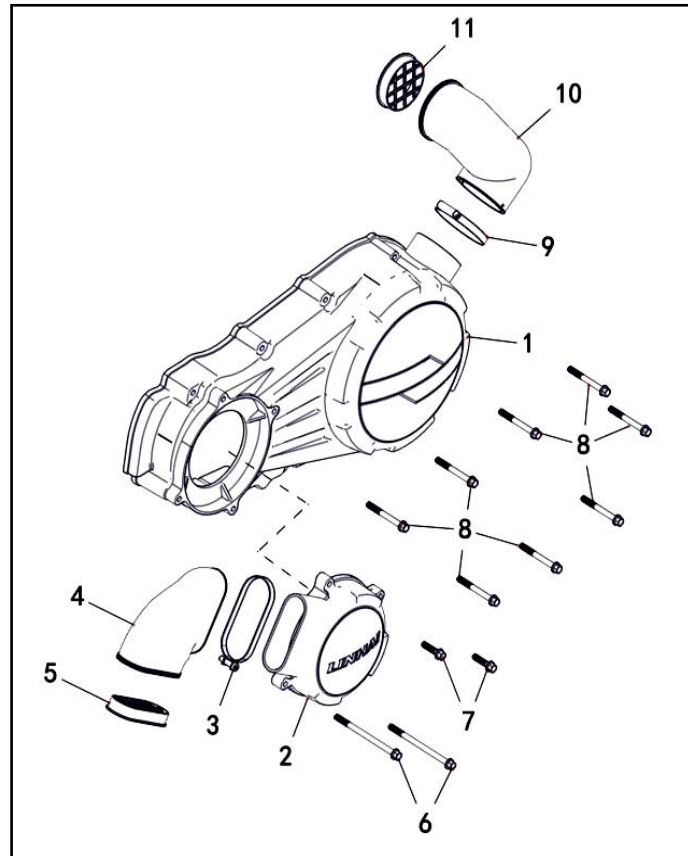
Ref. No.	Part No.	Description	Qty.
1	47520	Crankshaft Assy	1
2	22504	Key Woodruff	1
3	27241	Piston	1
4	27239	Clip	2
5	27240	Piston Pin	1
6	27242	Piston Ring Set	1
7		Piston Ring 2 Set	1
8		Piston Ring 1 Set	1
9	22503	Washer Plate 16	1
10	22502	Nut M16x1	1
11	47521	Balance Shaft Assy	1

Crankcase



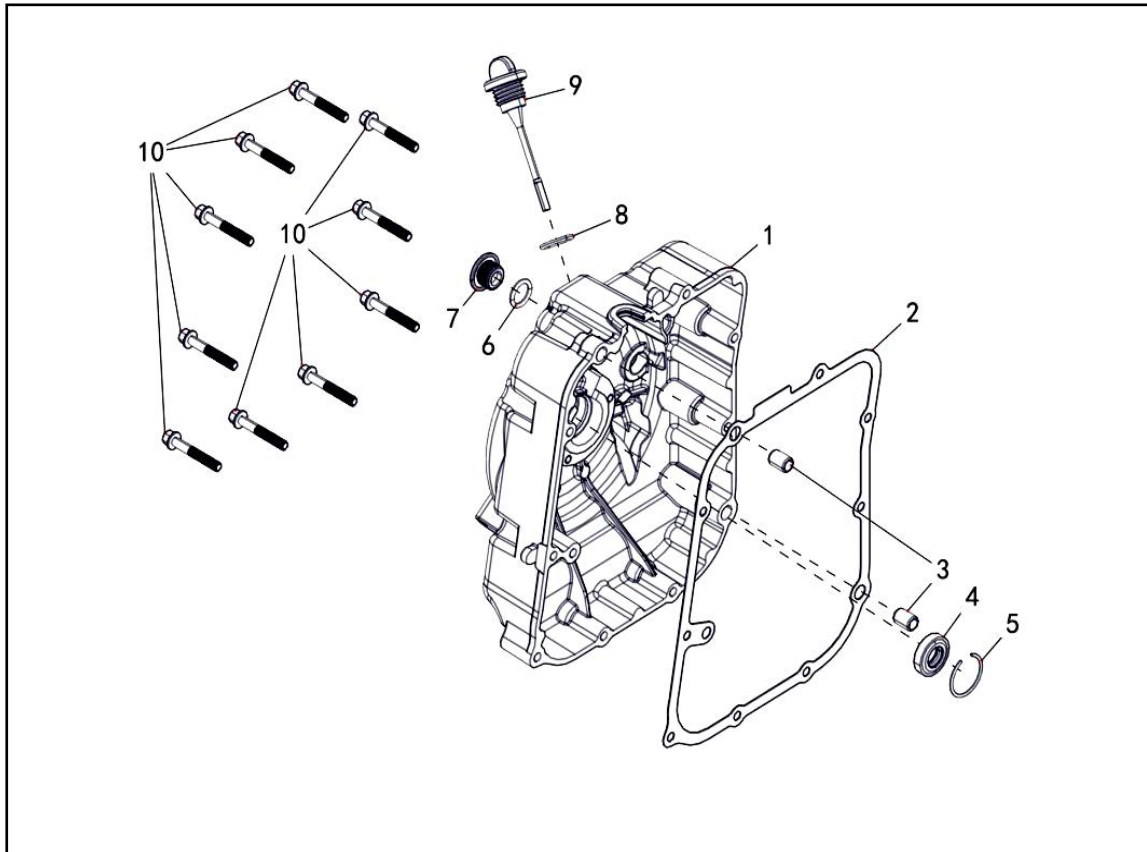
Ref. No.	Part No.	Description	Qty.
1	47522	Left Crankcase	1
2	47523	Right Crankcase	1
3	27205	Stud Bolt M8×25-3.6	4
4	10846	Bearing 6303C3	2
5	35094	Pin Dowel 10×14	2
6	23510	Oil Seal 30×45×5	1
7	11451	Flange Bolt M6×60	1
8	10161	Flange Bolt M6×65	1
9	10160	Flange Bolt M6×70	4
10	70219	Flange Bolt M6×105	4
11	23512	Cover Crankcase Right	1
12	10036	Socket Head Bolt M6×14	2
13	23111	Drain Plug	1
14	23112	O-Ring 36×3.5	1
15	23110	Compression Spring	1
16	23109	Oil Strainer	1
17	47524	Bracket Shift	1

Left Crankcase Cover



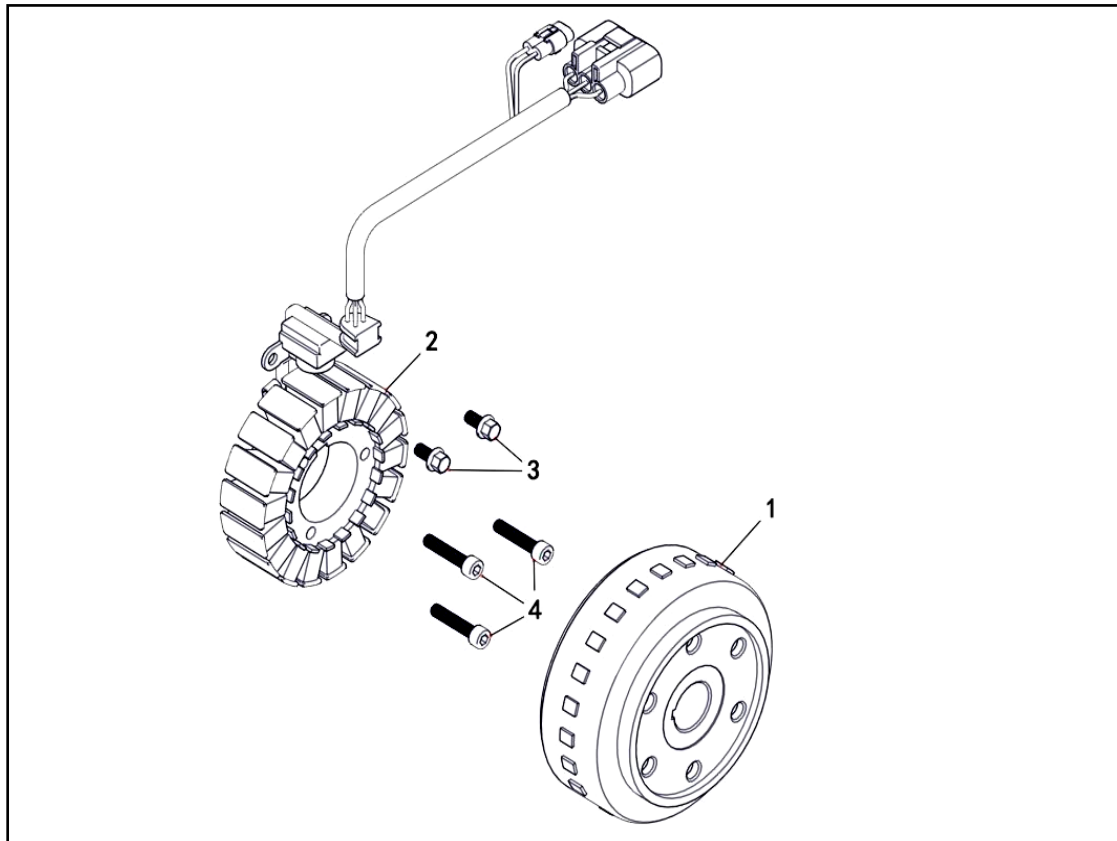
Ref. No.	Part No.	Description	Qty.
1	47525	Left Crankcase Cover	1
2	47526	Front Cover	1
3	23608	Hose Clamp A	1
4	23607	Joint B	1
5	23606	Air Strainer A	1
6	11007	Flange Bolt M6×95	2
7	10187B	Flange Bolt M6×25	2
8	11126	Flange Bolt M6×55	8
9	23603	Hose Clamp B	1
10	23604	Joint A	1
11	23605	Air Strainer B	1

Right Crankcase Cover



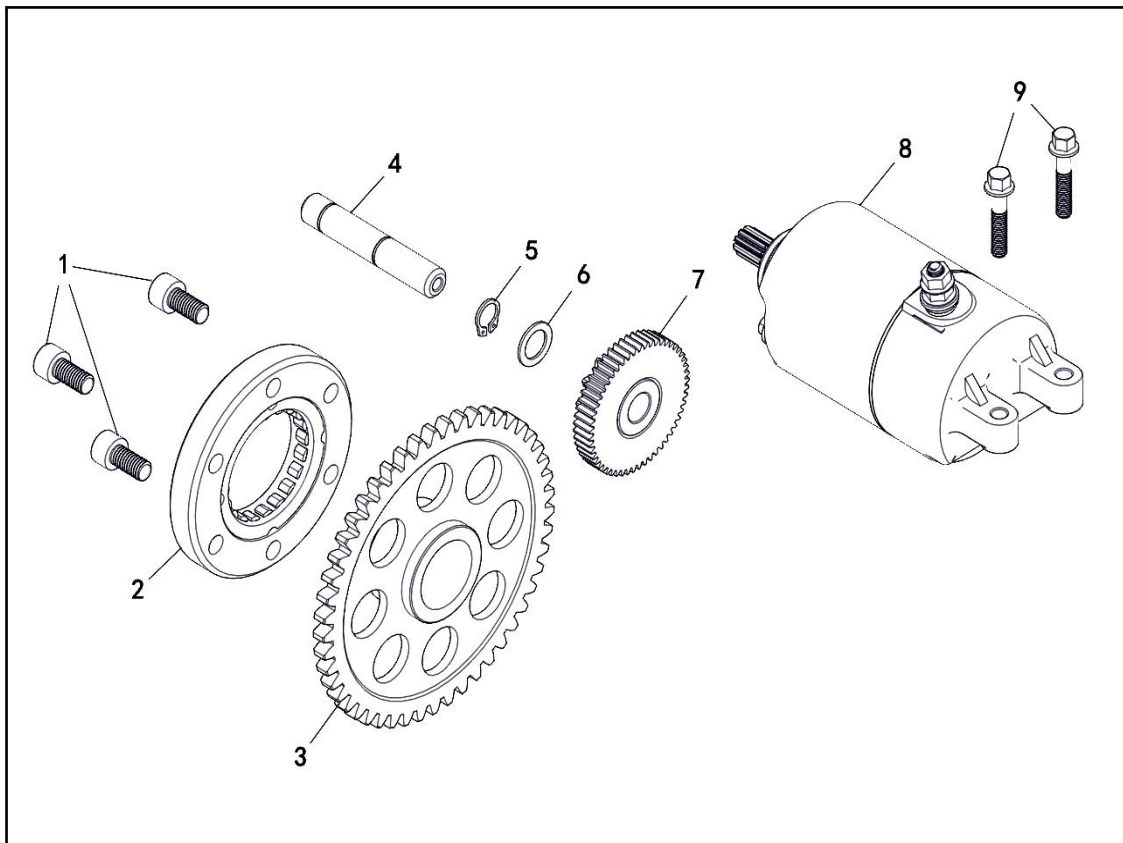
Ref. No.	Part No.	Description	Qty.
1	47527	Right Crankcase Cover	1
2	47528	Right Crankcase Cover Gasket	1
3	35094	Pin Dowel 10x14	2
4	23609	Oil Seal 14x27x6	1
5	27644	Clip 27	1
6	10123	O-Ring 14x2.65	1
7	23613	Observed Cover	1
8	10122	O-Ring 18x2.65	1
9	23611	Oil Plug	1
10	23615	Flange Bolt M6x40	10

Generator



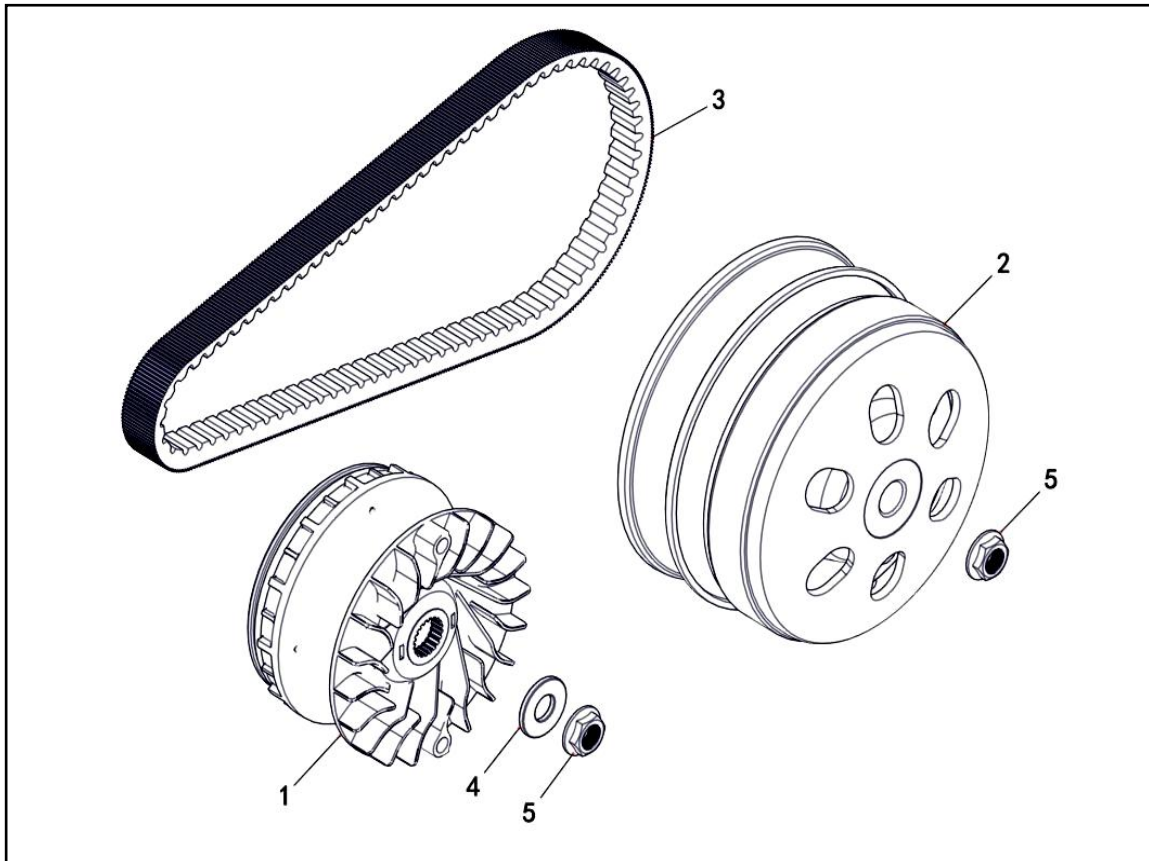
Ref. No.	Part No.	Description	Qty.
1	47529	Rotor Assy	1
2	47530	Stator Assy	1
3	10140W	Bolt M6×12	2
4	10170	Socket Head Bolt M6×30	3
5	47805	Generator Assy	1

Electric Starter

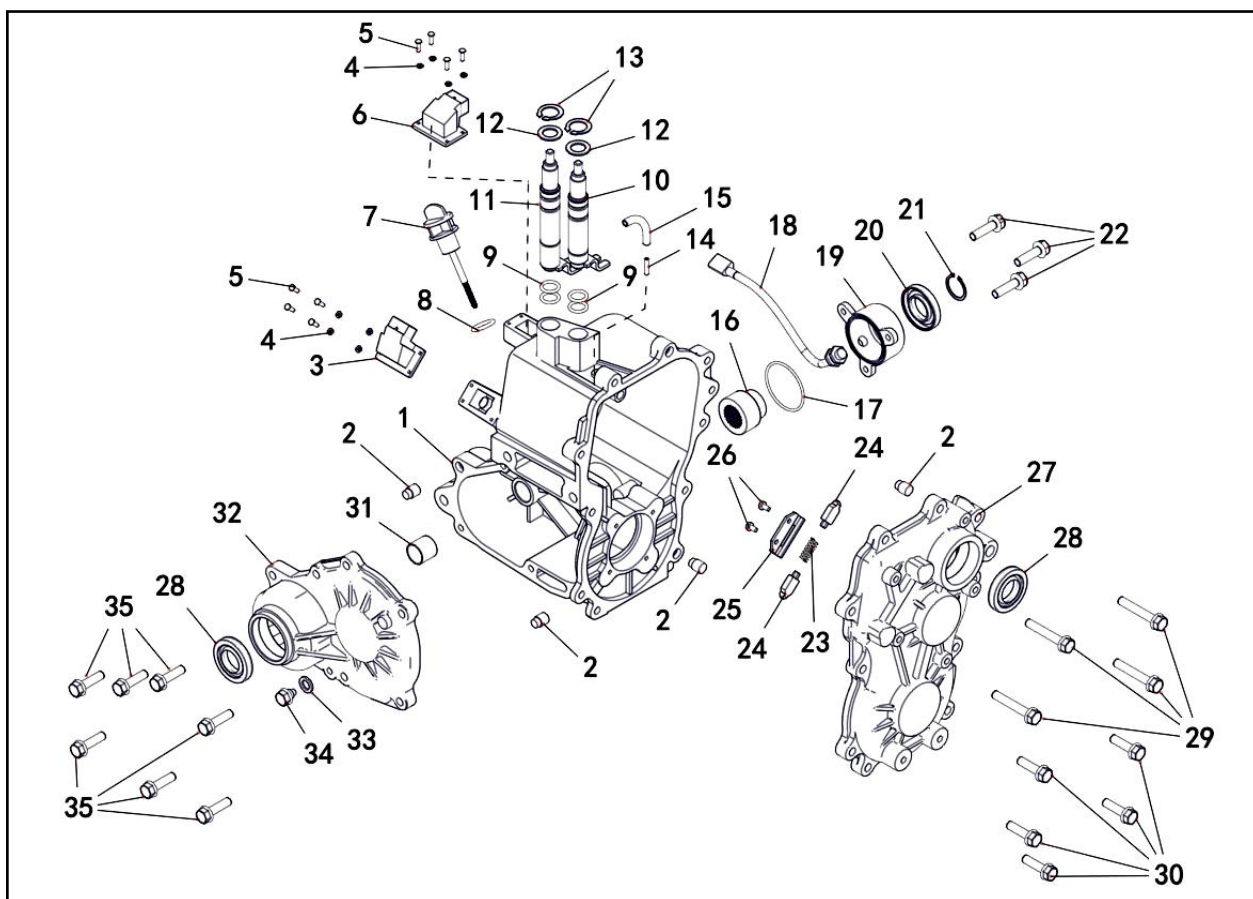


Ref. No.	Part No.	Description	Qty.
1	10131	Socket Head Bolt M8×16	3
2	23706	Starter Clutch	1
3	23705	Gear Reduction	1
4	23702	Shaft	1
5	11458	Circlip 12	1
6	23703	Washer 12	1
7	23701	Gear Idler	1
8	47531	Starting Motor Assy	1
9	23615	Flange Bolt M6×40	2

Clutch

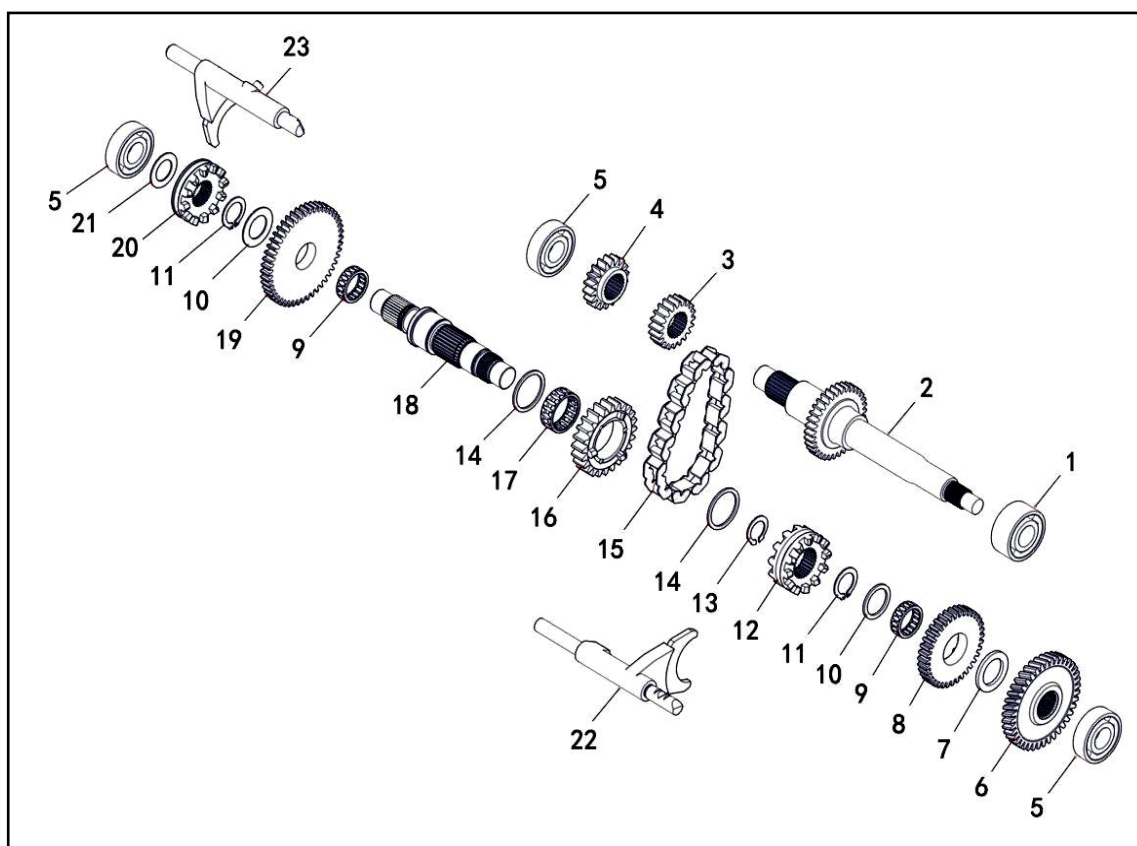


Ref. No.	Part No.	Description	Qty.
1	47532	Drive Assy Complete	1
2	47533	Driven Assy Complete	1
3	23817	V-Belt	1
4	47534	Washer Plate 14	1
5	46191	Nut M14×1	2

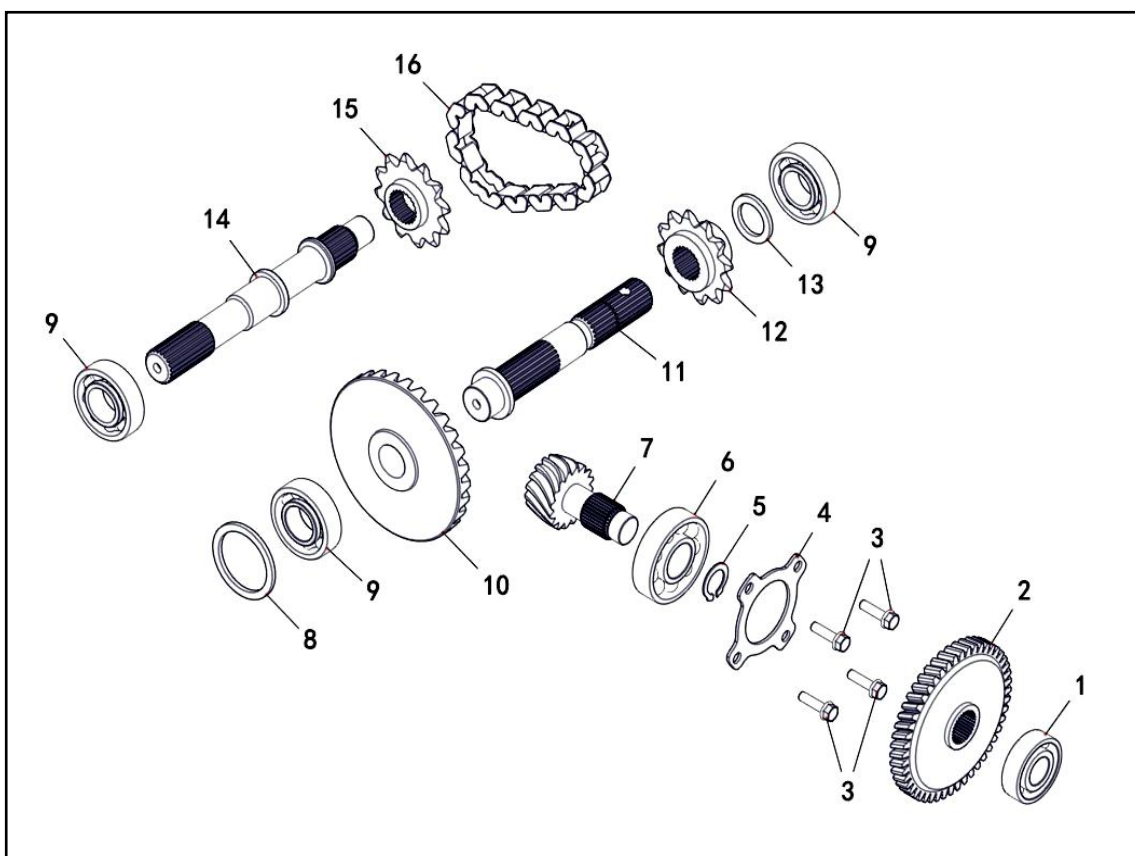


Ref. No.	Part No.	Description	Qty.
1	47535	Gearcase, RH (Use with Speed Sensor)	1
2	21104	Dowel Pin	4
3	21457	Gear Indicator Switch	1
4	10071	Washer 4	8
5	11381	Screw M4	8
6	21344	Gear Indicator Switch	1
7	21475	Dipstick	1
8	10122	O-Ring 18×2.65	1
9	10123	O-Ring 14×2.65	4
10	21459	Shift Rod Low	1
11	21460	Shift Rod High/Reverse	1
12	21338	Washer 2	1
13	11384	Snap Ring 2	1
14	21340	Vent Tube Fitting	1
15	21339	Vent Tube	1
16	25511A	Collar (New Model)	1
17	25512	O-Ring 50×1.5	1
18	47536	Speed Sensor	1
19	25513A	Speed Sensor Cover (New Model)	1

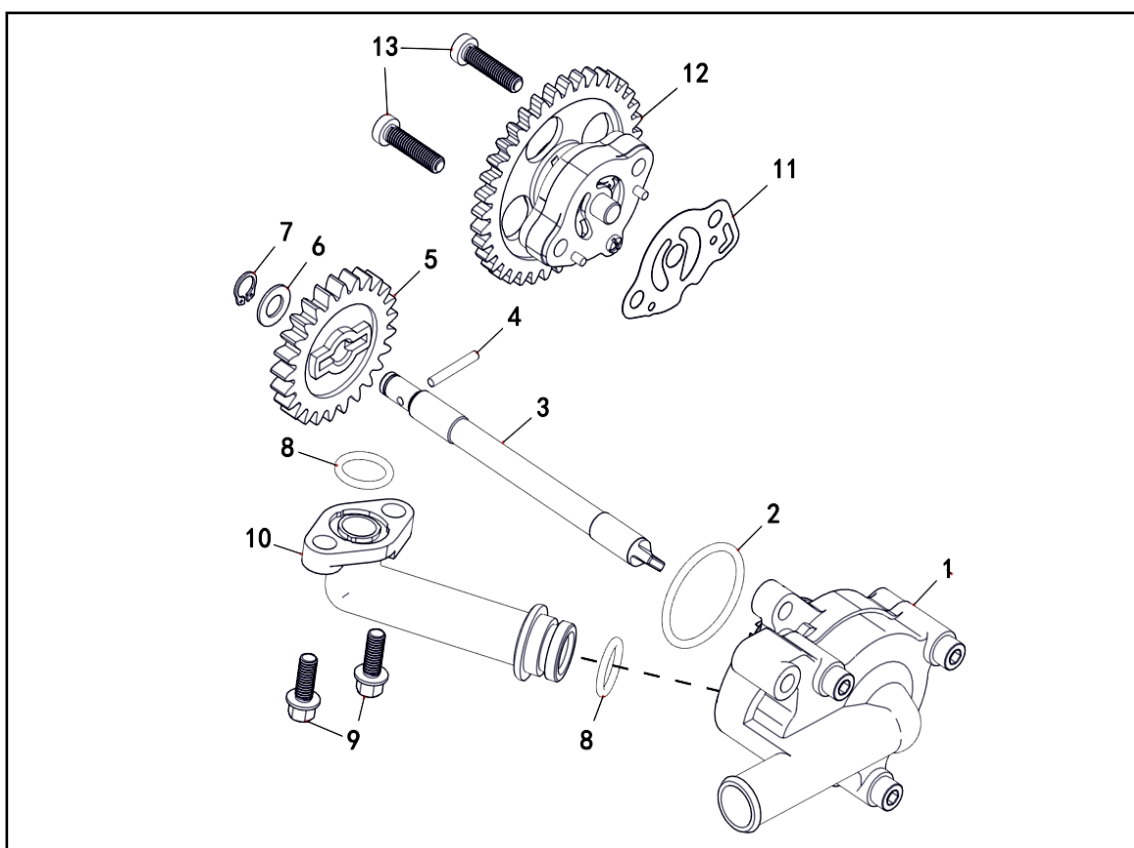
20	11386	Seal 30×40×5 (New Model)	1
21	10164	Clamp 24 (New Model)	1
22	10010	Bolt M6×15	3
23	21213	Spring	1
24	21211	Interlock Pin	2
25	21212	Interlock Bracket	1
26	11380	Screw M5×10	2
27	47537	Gearbox Cover	1
28	21201	Seal 25×47×8	2
29	11464	Bolt M8×50	4
30	11366	Bolt M8×28	10
31	47538	Bushing	1
32	21468t	Cover	1
33	21470	Washer 1	1
34	21469	Drain Screw	1
35	11366	Bolt M8×28	14



Ref. No.	Part No.	Description	Qty.
1	10732	Bearing 5205C3	1
2	47539	Input Shaft	1
3	21477	Sprocket	1
4	21208	Gear 16T	1
5	10062	Bearing 6204	3
6	21210A	Gear, Helical 31T	1
7	21216	Spacer	1
8	21217	Gear 31T	1
9	21218	Needle Bearing 25	2
10	21219	Thrust Washer 2	1
11	10064	Snap Ring 2	1
12	21221	Dog Gear	1
13	11383	Snap Ring 1	1
14	21223	Thrust Washer 2	1
15	21207	Chain	1
16	21224	Sprocket 24T	1
17	21225	Needle Bearing 25	1
18	21327	Shaft	1
19	21329	Gear 35T	1
20	21332	Engagement	1
21	21333	Thrust Washer 1	1
22	21460	Shift Rod High/Reverse	1
23	21459	Shift Rod Low	1

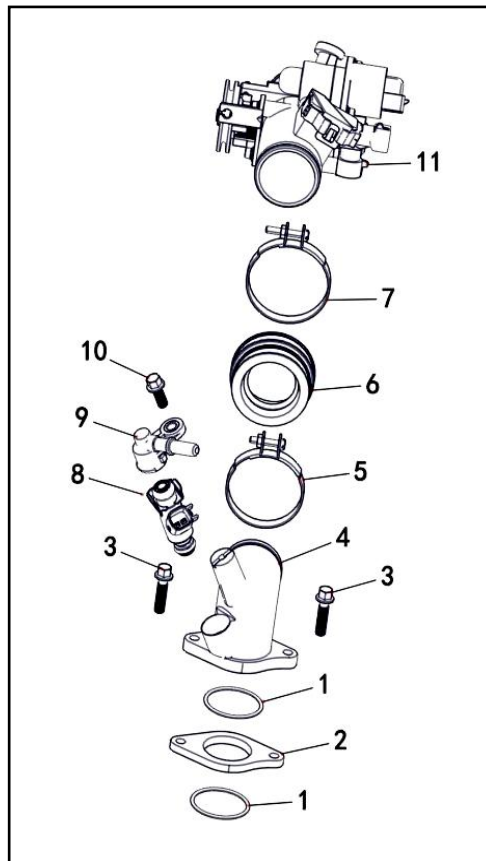


Ref. No.	Part No.	Description	Qty.
1	10063	Bearing 6204C3	1
2	25109	Gear Helical 51T	1
3	11377	Screw M6x10	4
4	21351	Bearing Retainer Plate	1
5	21453	Snap Ring	1
6	10074	Bearing 6305ST	1
7	21455	Pinion Shaft 10T	1
8	21465	Shim 1	1
9	10061	Bearing 6205C3	3
10	21462	Gear 1	1
11	70354	Shaft Rear Output A (Use with Speed Sensor)	1
12	21483	Sprocket 12T	1
13	21461	Thrust Washer 1	1
14	21480	Shaft Front Output	1
15	21481	Sprocket 12T	1
16	21482	Chain	1

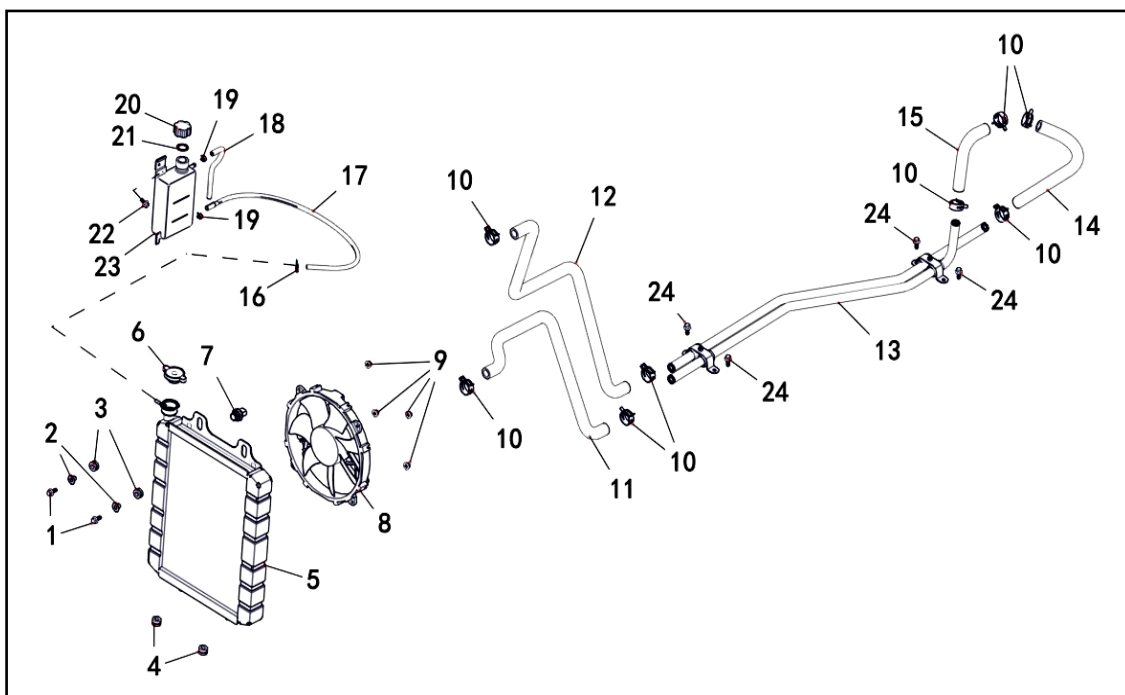


Ref. No.	Part No.	Description	Qty.
1	22820	Water Pump Assy	1
2	10049	O-Ring 33.5×2.65	1
3	27230	Shaft	1
4	10070	Dowel Pin C3×22	1
5	22815	Impeller Shaft Gear	1
6	22814	Washer Plate 8	1
7	10072	Circlip 8	1
8	10082	O-Ring 15.5×2.5	2
9	10083	Bolt M6×15	2
10	27229a	Joint (ADC12)	1
11	23107	Gasket	1
12	27245	Oil Pump Assy	1
13	10098	Screw M6×25	2

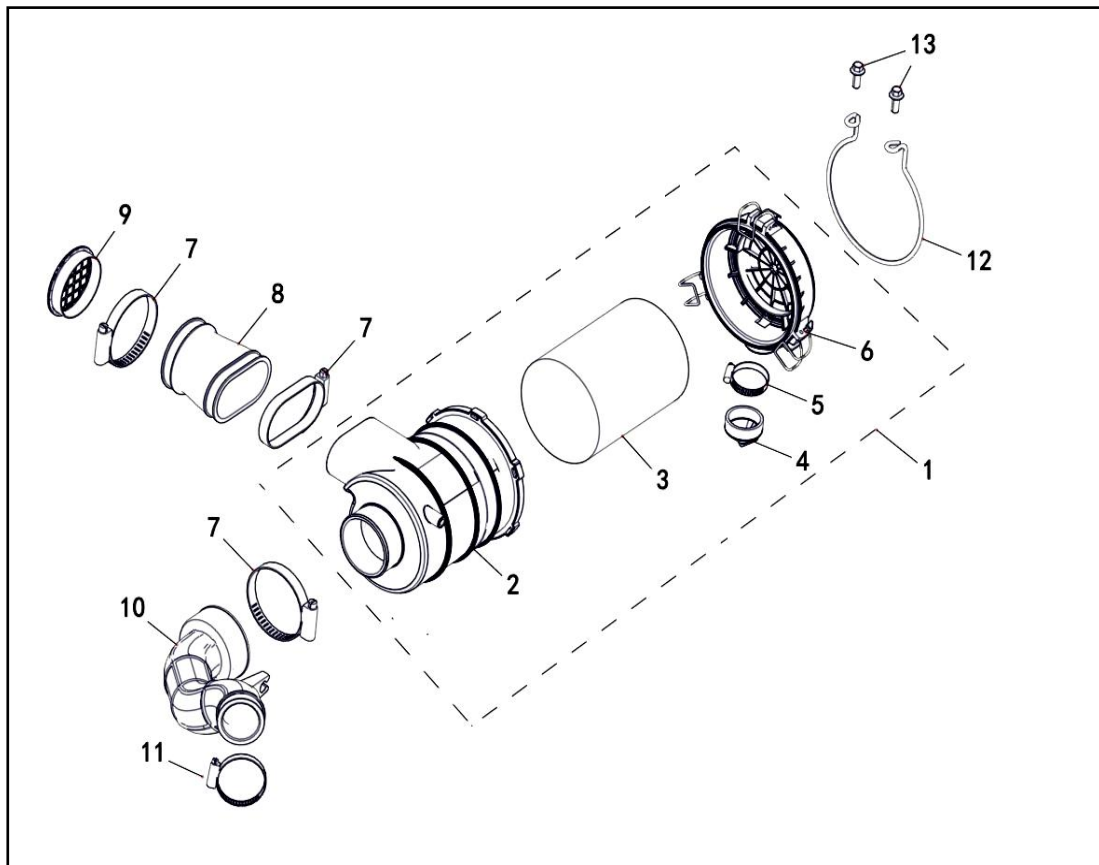
Fuel Injection Assy



Ref. No.	Part No.	Description	Qty.
1	23202	O-Ring 35×2	2
2	27225	Joint	1
3	10187W	Bolt M6×25	2
4	47540	Feed Hose	1
5	27901	Clip 49	1
6	27902	Joint, Feed Hose	1
7	27903	Clip 53	1
8	27698	Injector	1
9	47541	Injector Cap	1
10	11495	Bolt M6×16	1
11	47542	Throttle Body Assembly	1

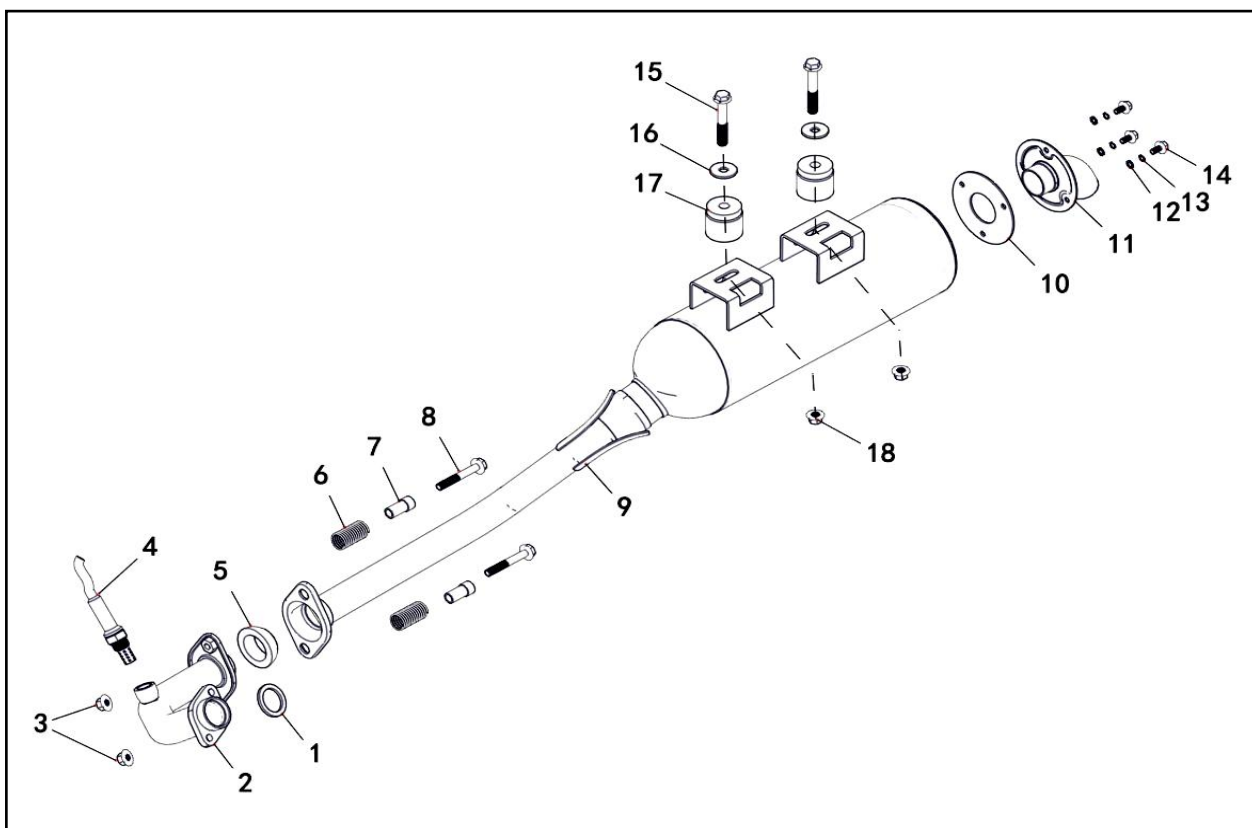


Ref. No.	Part No.	Description	Qty.
1	11307	Bolt M6×25	2
2	36052	Collar	2
3	36053	Radiator Side Grommet, up	2
4	36054	Radiator Side Grommet, down	2
5	47757	Radiator	1
6	22907a	Safety Valve	1
7	48020	Thermostat Switch Assy	1
8	47543	Blower Assy	1
9	11233	Nut M6	4
10	47758	Clip 22	8
11	47759	Hose, Return	1
12	47760	Hose, Feed	1
13	47761	Bracket	1
14	46269	Return Hose, Cylinder	1
15	46268	Feed Hose, Valve	1
16	48014	Clip 8	1
17	47762	Pipe, Safety Valve	1
18	48325	Pipe, Tank Recovery	1
19	47763	Clip 2	1
20	70338	Cover, Tank Recovery	1
21	70339	Washer, Tank Recovery	1
22	10140B	Bolt M6×12	1
23	83456	Tank Recovery	1
24	11495	Bolt M6×16	4



Ref. No.	Part No.	Description	Qty.
1	47544	Air Cleaner Assy	1
2	73826	Case, Air Cleaner	1
3	73824	Element Comp Air Cleaner	1
4	73835	Oil Cap	1
5	47545	Clip 27/51	1
6	73823	Cover, Air Cleaner	1
7	35670	Clip 80	3
8	73834	Air Cleaner Inlet Connection Pipe	1
9	47546	Intake Hose	1
10	47765	Feed Hose	1
11	71660	Clip 33/57	1
12	73842	Air Cleaner Mounting Clamp	1
13	10783	Bolt M8×20	1

Exhaust



Ref. No.	Part No.	Description	Qty.
1	47766	Gasket, Exhaust Pipe	1
2	47767	Pipe, Exhaust	1
3	10882	Nut M8	2
4	47555	Oxygen Sensor	1
5	47768	Joint	1
6	62369	Spring	2
7	62368	Bolt	2
8	47769	Muffler	1
9	47770	Seal Ring, Tail Pipe	1
10	47771	Tail Pipe	1
11	11792	Gasket 6	3
12	11019	Spring Washer 6	3
13	11320	Bolt M6×16	3
14	11848	Bolt M10×1.25×62.5	2
15	11813	Washer 10	2
16	35344	Buffer Block	2
17	11287	Nut M10×1.25	2

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