INTRODUCTION

Congratulations on your purchase.It represents the result of many years of experience in the production of fine sporting,touring,and pace-setting racing vehicles. With the purchase, you can now appreciate the high degree of craftsmanship and reliability that have made a leader in these fields.

This manual will provide you with a good basic understanding of the features and operation of this vehicle. It also includes basic maintenance and inspection procedures. If you have any questions regarding the operation or maintenance of your vehicle, please consult a dealer.

⚠ WARNING

Please read this manual carefully before operating this vehicle. Do not attempt to opertate this vehicle until you have attained adequate knowledge of its controls and operating features. Regular inspections and careful maintenance, along with good operating techniques, will help ensure that you safely enjoy the capabilities and reliability of this vehicle.

IMPORTANT MANUAL INFORMATION

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

Particularly important information is distinguished in this manual by the following notations:

⚠	**This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.**
⚠ WARNING	**A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**
NOTICE	**A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.**
TIP	A TIP provides key information to make procedures easier or clearer.

* Product and specifications are subject to change without notice.

IMPORTANT NOTE ABOUT USE

- **This vehicle is designed and manufactured for off-road use only. Use on public streets, roads, or highways is not only illegal in most areas, it also increases the risk of an accident involving other vehicles. This vehicle does not meet federal motor vehicle safety standards for on-road use.**
- **Check the laws and regulations in force before choosing where to operate this vehicle. It is illegal to operate this vheicle on public lands where vehicles its size are prohibited.**
- **This vehicle complies with almost all state off-highway noise level and spark arrester laws and regulations.**

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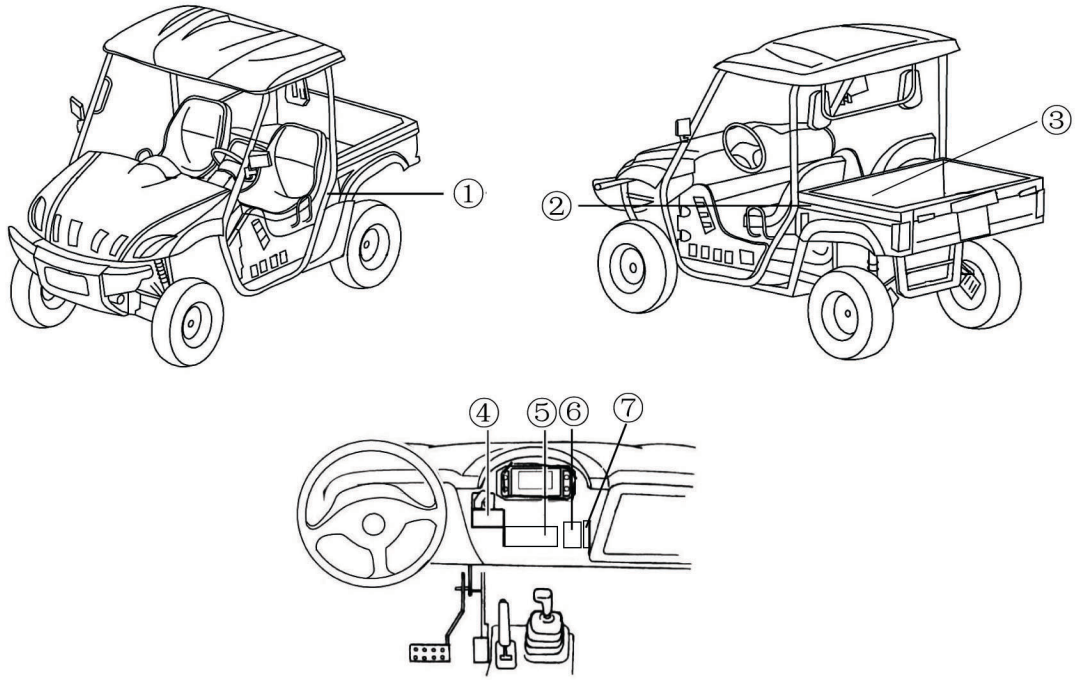
LOCATION OF THE WARNING AND SPECIFICATION LABELS



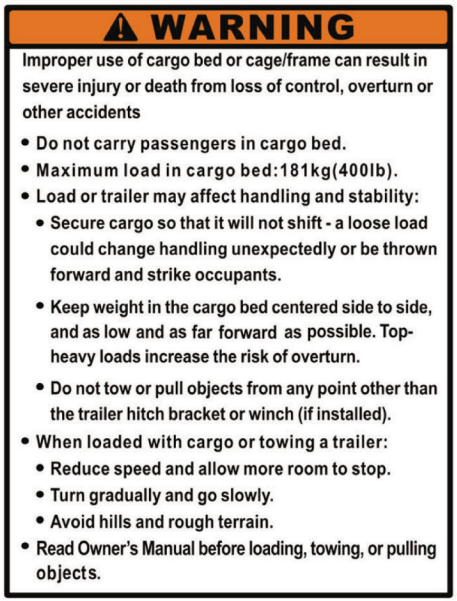
Read and understand all of the labels on your vehicle. They contain important information for safe and proper operation of your vehicle.

Never remove any labels from your vehicle. If a label becomes difficult to read or comes off, a replacement label is available from your dealer.

①

②

③



④

Head to Toe Safety Checklist

✓	Head	Helmet and eye protection.
✓	Body	Seatbelt and protective clothing.
✓	Hands	Inside vehicle and holding the handholds or steering wheel.
✓	Feet	On floorboard, ready to brace, and door closed.

⑤

⚠ WARNING

To reduce risk of accidents and injury or death:

Be Prepared

- Wear seat belt, motorcycle helmet, eye protection and protective gear.
- Keep your body completely inside the vehicle at all times. Keep both hands on the steering wheel. Be sure passenger is seated, belted, and holding onto the handholds.

Be Qualified and Responsible

- This vehicle is intended for use only by an operator 16 or older with a valid motor vehicle license.
- Passenger and driver must be able to place both feet flat on the floorboard while seated upright with their backs against the seat backs.
- Do not drive or ride as passenger after using drugs or alcohol.
- Do not operate on public roads.

Read the Owner's Manual.

Avoid Rollovers and Crushing Injuries

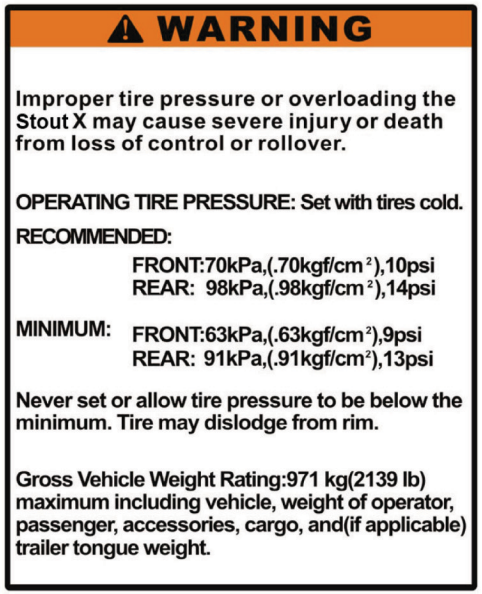
- Use care when turning:
  - Turning the steering wheel too far or too fast can result in a rollover or loss of control. Slow down before entering a turn.
  - When making tight turns from a stop or at slow speeds, avoid sudden or hard acceleration.
  - Avoid sideways sliding, skidding,or fishtailing, and never do donuts.
- Drive straight up and down inclines,not across them. If crossing a hill is unavoidable,drive slowly and turn downhill immediately if you feel the vehicle may tip.
- Avoid paved surfaces. Turn gradually and go slowly if you must drive on pavement. This vehicle is designed for off-road use only.

If you think or feel the Stout X may tip or roll:

- Brace yourself by pressing your feet firmly on the floorboards and keep a firm grip on the steering wheel or handholds.
- Do not put your hands or feet outside of the vehicle for any reason.

Abrupt maneuvers or aggressive driving have caused rollovers-even on flat,open areas.

⑥


⚠ WARNING
Improper tire pressure or overloading the Stout X may cause severe injury or death from loss of control or rollover.
OPERATING TIRE PRESSURE: Set with tires cold.
RECOMMENDED:
FRONT:70kPa,(.70kgf/cm²),10psi
REAR: 98kPa,(.98kgf/cm²),14psi
MINIMUM:
FRONT:63kPa,(.63kgf/cm²),9psi
REAR: 91kPa,(.91kgf/cm²),13psi
Never set or allow tire pressure to be below the minimum. Tire may dislodge from rim.
Gross Vehicle Weight Rating:971 kg(2139 lb) maximum including vehicle, weight of operator, passenger, accessories, cargo, and(if applicable) trailer tongue weight.

⑦

⚠ WARNING
Any part of your body(arms,legs, or head) outside of the vehicle can be crushed by the cage/frame.
If you think of feel that the vehicle may tip or roll, brace your feet on the floorboards, and keep your hands on the steering wheel.
Do not try to stop a vehicle tipover using your arm or leg.

SAFETY INFORMATION

Be a responsible owner

As the vehicle's owner, you are responsible for the safe and proper operation of your YXQUAD X. While understanding all parts of this manual are important for vehicle ownership, be sure to read this chapter and the instructions in Chapeter 7 before operating the YXQUAD X. Also use these two chapeters and the labels on the vehicle to instruct new opertators and passengers. Do not allow anyone else to operatre your vehicle or ride as a passenger if you are unsure that he/she is willing and able to follow these instrucions.

Get to know your vehicle

This off-road vehicle will handle and maneuver differently from cars, ATVs, go-carts, golf-cars and grounds-keeping vehicles. Follow these instructions to reduce your risk of an accident and to reduce the risk of serious injury or death in the event of an accident.

Before you operate the YXQUA0 X

- Prepare yourself and your passenger:
  - This vehicle is intended for use only by an operator 16 or older with a valid motor vehicle license.

  - This vehicle is designed to carry the driver and one passenger. Never carry passengers in the cargo bed.
  - Both driver and passenger should wear seat belts properly.
  - Both driver and passenger must be able to put both feet flat on the floorboard while seated upright with their backs against the seat backs. Passenger must be able to reach and hold the handholds within the cage/frame.
  - Both driver and passenger should wear an approved motorcycle helmet that fits properly. Both driver and passenger should also wear eye protection (goggles or a face shield), gloves, over-the-ankle boots, long-sleeved shirt or jacket, and long pants.
  - Do not drive or ride as passenger after using drugs or alcohol.

Prepare your vehicle

Perform the pre-operation checks each time you use the vehicle to make sure it is in safe operating condition. Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. See pages 5-1-5-2 for a list of pre-operation checks.

Prepare your load or trailer

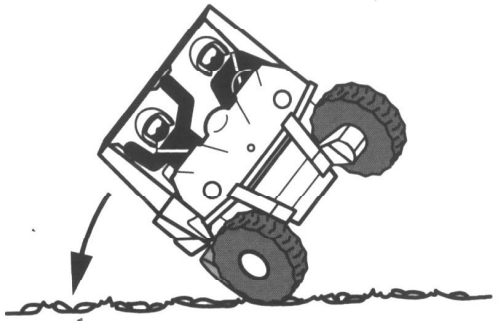
Carrying loads, towing a trailer, or pulling objects can affect handling, stability, and risk of overturn or other accidents.

- Read Chapter 6 before loading, towing, or pulling objects.
- Do not overload the vehicle or trailer. Refer to label in cargo bed for cargo bed load limit, Refer to label next to hitch for tongue weight and trailer load limits.
- Keep weight in the cargo bed centered side to side, and as low and as far forward as possible.
- Secure cargo so that it will not shift - a loose load could change handling unexpectedly or be thrown forward and strike occupants.

Prepare your load or trailer

- Keep your body completely inside the vehicle at all times. Keep both hands on the steering wheel. Be sure passenger is seated, belted, and holding onto the handholds. Close doors before driving. Any part of your body (arms, legs, and head) outside the vehicle can be struck by objects your vehicle is passing or crushed by the vehicle cage/frame in a rollover accident.
- Watch for branches, brush, or other hazards that could enter the vehicle.
- Abrupt maneuver or aggressive driving, enven on flat, open areas, can cause loss of control, including rollovers. The YXQUAD X has higher ground clearance and other features to handle rugged terrain, and, as a result, can overturn in situations where some other vehicles may not.

- Avoid rollovers:
  - Use care when turining:
    - Turning the steering wheel too far or too fast can result in a rollover.
    - Avoid sideways sliding, skidding, or fishtailing, and never do donuts.
    - Slow down before entering a turn and avoid hard braking in a turn.
    - When making tight turns from a stop or at slow speeds, avoid sudden or hard acceleration.



- Drive straight up and down inclines, not across them. If crossing a hill is unavoidable, drive slowly and turn downhill immidiately if you feel the vehilcle may tip.
- Avoid paved surfaces. Turn gradually and go slowly if you must drive on pavement. This vehicle is designed for off-road use only.

- If you think or feel that the vehicle may tip or roll, keep you body completely inside the protective structure of the vehicle.
  - Brace yourself by pressing your feet firmly on the floorboards and keep a firm grip on the steering wheel or handholds.
  - Do not put your hands or feet outside of the vehicle for any reason. Your arm or leg could be crushed.
  - Do not try to stop a vehicle tipover using your arm or leg.
- Do not operate this vehicle on any public street, road, or highway, even if dirt or gravel.
- Do not operate the vehicle in fast-flowing water or water deeper than 33 cm (13 in). If you must cross shallow, slow-moving water, choose your path carefully to avoid sharp drop-offs, large rocks, or slippery surfaces. Operating this vehicle through deep or fast-flowing water can lead to loss of control or overturn. To reduce your risk of drowning or other injuries, use care when crossing through water.

- When loaded with cargo or towing a trailer:
  - Reduce speed, operate in low gear only, and allow more room to stop.
  - Avoid hills and rough terrain. Use extreme caution when towing or carrying a load on inclines.
  - Load trailer properly and use extra care when towing or pulling.
- Do not tow or pull objects from any part of the vehicle other than the trailer hitch bracket or winch(if installed).

Avoid carbon monoxide poisoning

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness,drowsiness, nausea, confusion, and eventually death.

Carbon monoxide is a colorless, odorless, tasteless gas which may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly-ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and SEEK MEDICAL TREATMENT.

- Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.
- Do not run engine in poorly ventilated or partially enclosed areas such as barns, garages, or carports.
- Do not run engine outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.

Genuine Accessories

Choosing accessories for your YXQUAD X is an important decision. Genuine Accessories which are available only from a dealer, have been designed, tested, and approved for use on your YXQUAD X.

Many companies with no connection to manufacture parts and accessories or offer other modifications for vehicles. My company is not in a position to test the products that these aftermarket companies product. Therefore, We can neither endorse nor recommend the use of accessories not sold or modifications not specifically recommended even if sold and installed by a dealer.

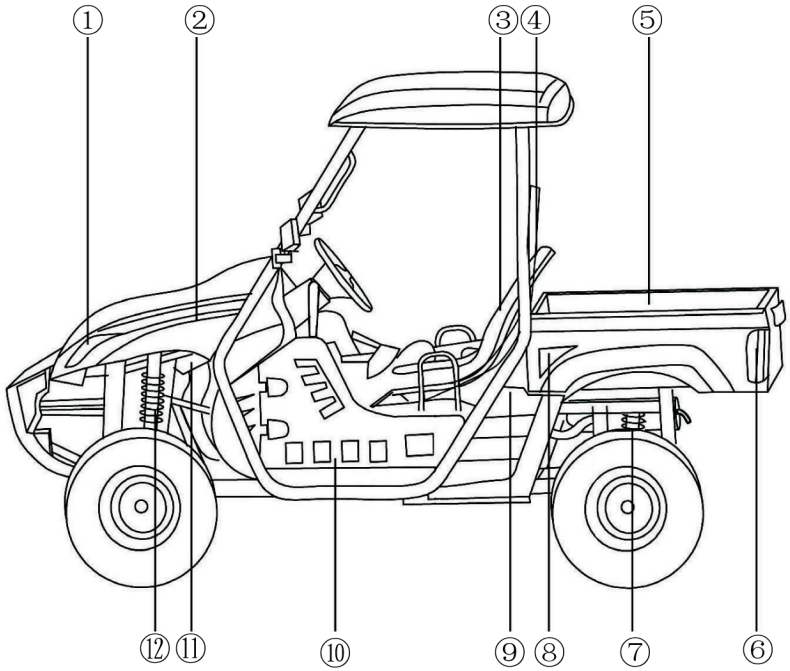
Aftermarket parts, accessories, and modifications

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

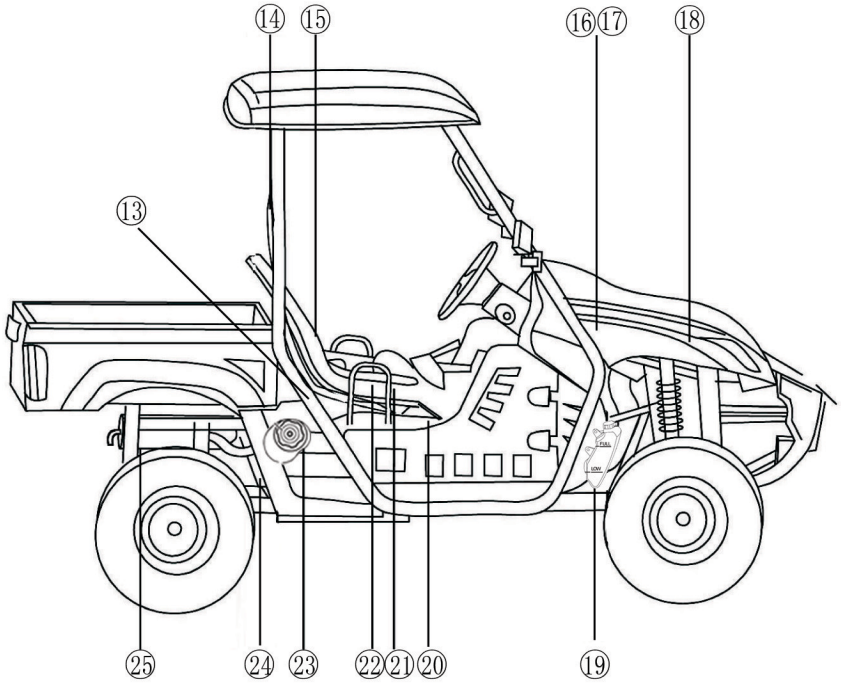
Aftermarket tires and rims

The tires and rims that came with your YXQUADX were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort, Other tires, rims, sizes, and combinations may not be appropriate.

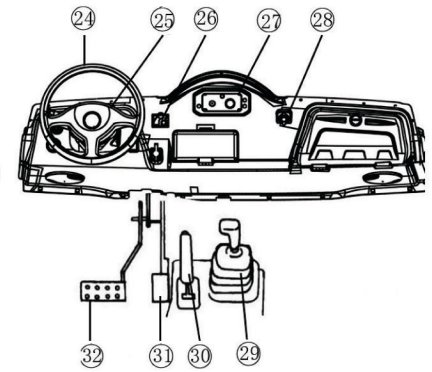
DESCRIPTION



1. Headlights
2. Air filter element
3. Driver seat
4. Driver seat belt
5. Cargo bed
6. Tail/brake lights
7. Rear shock absorber assembly
8. Cargo bed release levers
9. V-belt case
10. Door
11. Brake fluid reservoir
12. Front shock absorber assembly



13. VIN number
14. Passenger seat belt
15. Passenger seat
16. Battery
17. Fuses
18. Radiator cap
19. Coolant reservoir
20. Engine number
21. Engine oil dipstik
22. Spark plug
23. Fuel tank cap
24. Oil filter cartridge
25. Spark arrester

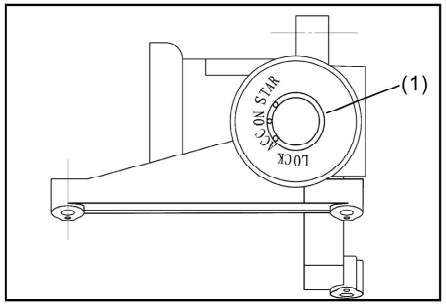


24. Steering wheel
25. Main switch
26. On-Command four-wheel-drivedifferential gear lock
27. switches
28. Multi-function meter unit
    Auxiliary DC jack
29. Drive select lever
30. Parking brake lever
31. Accelerator pedal
32. Brake pedal

The vehicle you have purchased may differslightly from those shown in the figures of this manual.

INSTRUMENT AND CONTROL FUNCTIONS

Main switch



1. Main swtich

Functions of the respective switch positions are as follows:

ON:

All electrical circuits are supplied with power, and the headlights and taillights come on when the light switch in on.

L0CK:

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

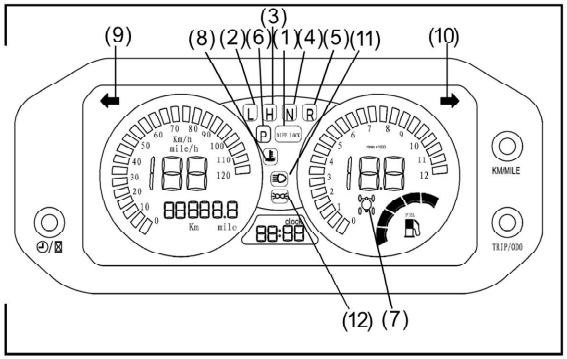
START:

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

ACC:

Direction lock.

Indicator and warning lights



1. On-Command differential gear lock indicator light “DIFF. LOCK”
2. Low -range indicator light “L”
3. High-range indicator light “H”
4. Neutral indicator light “N”
5. Reverse indicator light “R”
6. Parking brake indicator light “P”
7. On-Command four-wheel-drive/differential gear lock indicator “” / “”
8. Coolant temperature warning light “”
9. Left turning indicator light.
10. Right turning indicator light.
11. Position indicator light.
12. Beam indicator light.

On-Command differential gear lock indicator light “ DIFF.LOCK ”

This indicator light and the On-Command differential gear lock indicator in the display come on when the On-Command differential gear lock switch is set to the “ LOCK “ position.

When the switch is set to “ LOCK ”, the On-Command differential gear lock indicator light will flash until the differential gear is locked.

Low-range indicator light “ L”

This indicator light comes on when the drive select lever is in the “ L ” position.

Low-range indicator light “ H”

This indicator light comes on when the drive select lever is in the “ H” position.

Neutral indicator light “ N”
This indicator light comes on when the drive select lever is in the “ N ” position.

Reverse indicator light “ R”
This indicator light comes on when the drive select lever is in the “R ” position.

Parking brake indicator light “ P ”
This indicator light comes on when the parking brake is applied.

On-Command four-wheel-drive/different5 gear lock indicator “ ” / “ ”
The On-Command four-wheel-drive indicator “” comes on when the On-Command four-wheel-drive switch is set to the “ 4WD ” position.

The On-Command differential gear lock indicator “’ in the On-Command four-wheel drive indicator also comes on when the On-Command differential gear lock switch is set to the “LOCK” position.

- Due to the synchronizing mechanism in the differential gear case, the four-wheel-drive indicator may not come until the vehicle starts moving.
- When the On-Command differential gear lock switch is set to “LOCK”, the indicator “ ’ will flash until the differential gear locked.

Coolant temperature warning light “ ”

If the coolant temperature reaches a specified level, this light comes on to warn that the coolant temperature is too hot. If the light comes on during operation, stop the engine as soon as it is safe to do so and allow the engine to cool down for about 10 minutes.

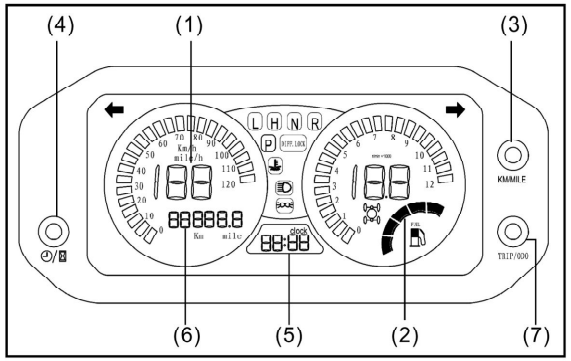
(See page 8-60)

The electrical circuit of the warning light can be checked by turning the key to “ON”. If the warning light does not come on, have a dealer check the electrical circuit.

NOTICE

- **The engine may overheat if the vehicle is overloaded. If this happens, reduce the load to specification.**
- **After restarting, make sure that the light is out. Continuous use while the light is on may cause damage to the engine.**

Multi-function meter unit

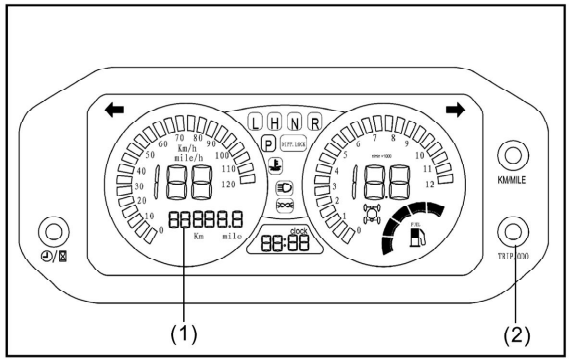


1. Speedometer
2. Fuel meter
3. “KM/MILE” button
4. Clock/Hour button
5. Clock/Hour meter/Voltage display
6. Odometer/Tripmeter A/Tripmeter B
7. “TRIP/ODO” button

The multi-function meter unit is equipped with the following:

- a speedometer (whcih shows the riding speed)
- an odometer (which shows the total distance traveled)
- two tripmetes (which show the distance traveled since they were last set to zero)
  a clock
- an hour meter (which shows the total time the key has been turned to “ON”
- a fuel meter
- a self-diagnosis device

Odometer and tripmeter modes



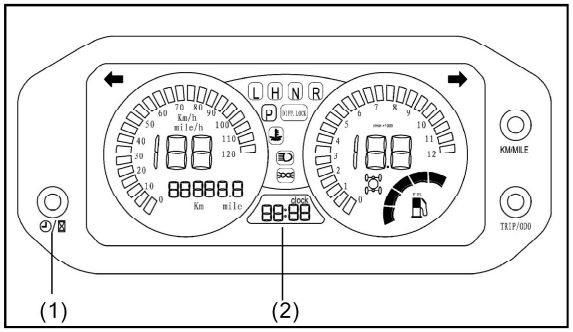
1. Odometer/Tripmeter A/Tripmeter B
2. “TRIP/ODO” button

Pushing the “TRIP/ODO” button switches the display between the odometer mode “ODO” and the tripmeter modes “A” and “B” in the following order:
ODO→TRIP A→TRIP B→ODO

To reset a tripmeter, select if by pushing the “TRIP/ODO” button, and then hold the “TRIP/ODO” button for at least three seconds. The tripmeters can be used to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.

To switch the display between “mph” and “km/h”, push and hold the”TRIP/ODO” button while turning the key to “ON”.

Clock, hour meter and voltage display modes



1. Clock/Hour button
2. Clock/ hour meter display

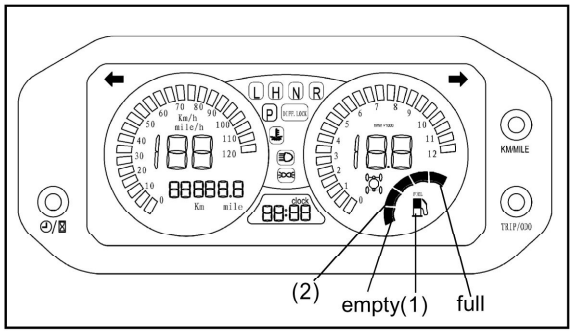
Pushing the “Clock/Hour ” switches the display between the clock mode “CLOCK”, the hour meter mode “HOUR”, and the voltage display mode “btry” in the following order:

CLOCK → HOUR → btry → CLOCK

To set the clock

1. Set the display to the clock.
2. Push the “Clock/Hour” button until the clock starts flashing.
3. Set the hours by pushing the “H” button.
4. Set the minutes by pushing “M” button.
5. Push the “Clock/Hour” button, and then release it to start the clock.

Fuel meter



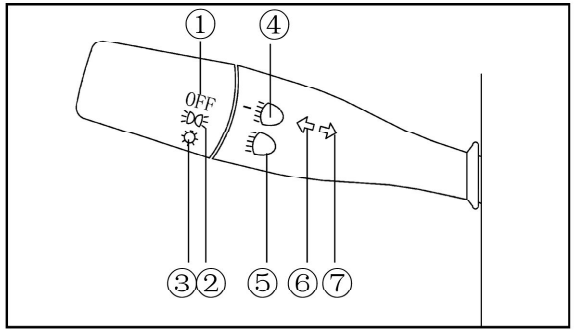
1. Fuel level warning indicator
2. Fuel meter

The fuel meter indicates the amount of fuel in the fuel tank. The display segments of the fuel meter disappear from “full” towards “empty” as the fuel level decreases. When the empty segment disappears and the fuel level warning indicator flashes, refuel as soon as possible.

Tip

This fuel meter is equipped with a self-diagnosis system. If the electrical circuit is defective all the display segments and fuel level warning indicator will start flashing. If this occurs have a dealer check the electrical circuit.

Switches



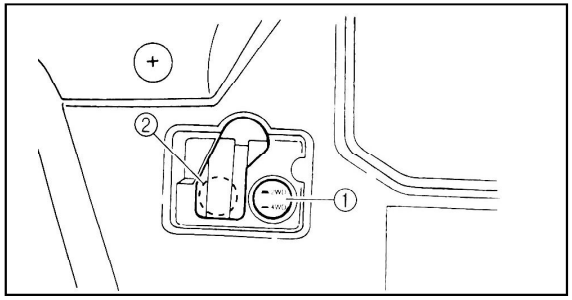
1. Light switch “OFF”
2. Direction light switch
3. Headlight switch
4. High beam light switch
5. Low beam light switch
6. Left turning light switch
7. Right turning light switch

Set the switch to “OFF” to turn off all the lights.

NOTICE

Do not use the headlights with the engine turned off for an extended period of time. The battery may discharge to the point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.

On-Command four-wheel-drive and differential gear lock switches



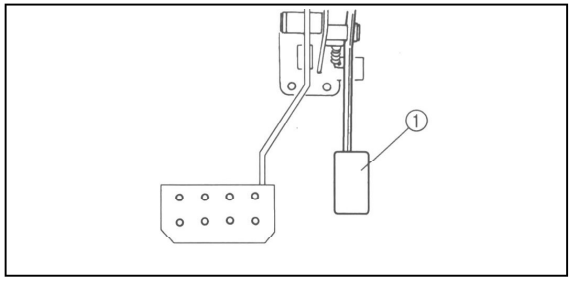
1. On-Command four-wheel-drive switch “2WD/4WD”
2. On-Command differential gear lock swtich “4WD/LOCK”

This vehicle is equipped with an On-Command four-wheel-drive switch “2WD”/ “4WD” and a differential gear lock switch “4WD”/ “LOCK”. Select the appropriate drive according to terrain and conditions.

- Two-wheel dirve (“2WD”): Power is applied to the rear wheels only.
- Four-wheel dirve (“4WD”): Power is applied to the rear wheels and front wheels.
- Four-wheel dirve with the differential gear locked (“4WD-LOCK”): Power is supplied to the rear and front wheels with the differential gear locked. Unlike the 4WD mode, all wheels turn at the same speed regardless of traction.

Accelerator pedal

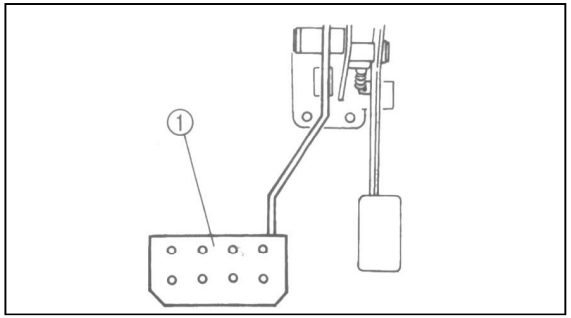
Press the accelerator pedal down to increase engine speed. Spring pressure returns the pedal to the rest position when released. Always check that the accelerator pedal returns normally before starting the engine.



1. Accelerator pedal

Brake pedal

Press the brake pedal to slow or stop the vehicle.



1. Brake pedal

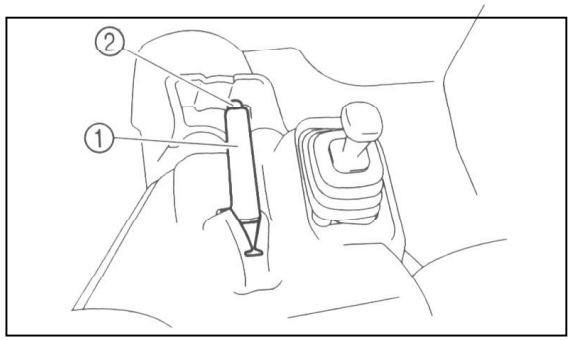
Parking brake lever

The parking brake lever is located at the right side of the driver's seat. It will help keep the vehicle from moving while parked.

To set the parking brake, pull the lever up completely.

To release the parking brake, pull up on the lever, press the release button, and push the lever all the way down.

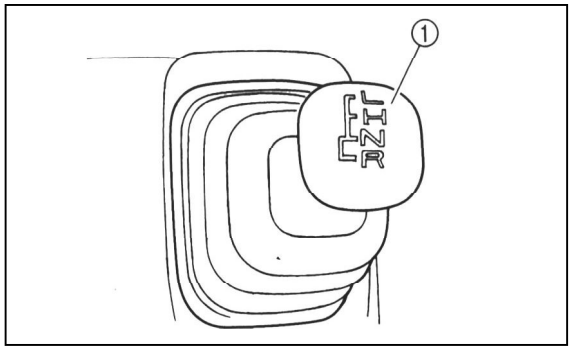
Spring pressure helps return the lever to the released position.



1. Parking brake lever 2. Relase button

Drive select lever

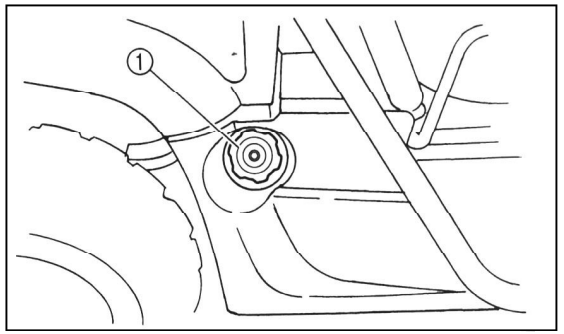
The drive select lever is used to shift the vehicle into the low, high, neutral, and reverse positions. (Refer to pages 6-4-6-5 for the drive select lever operation.)



1. Drvie select lever

Fuel tank cap

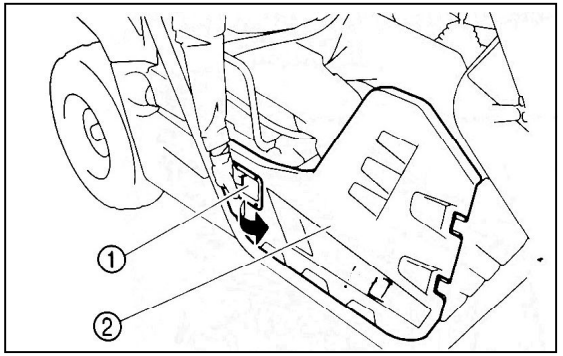
Remove the fuel tank cap by turning it counterclockwise.



1. Fuel tank cap

Doors

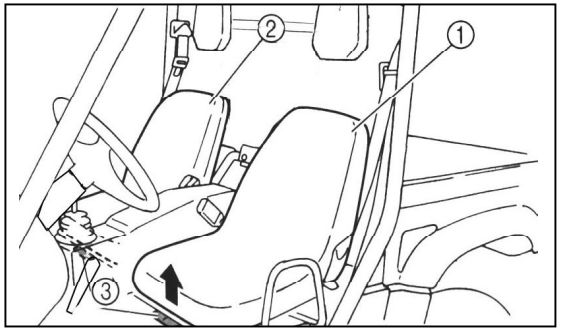
To open a door, simply pull the latch outward. To close a door, push or pull the door inward unitl is securely latched. Be sure the door is SECURELY LATCHED AFTER CLOSING IT.



1. Latch 2. Door

Seats

To remove a seat, pull its seat lock lever upward, lift the front of the seat, and then slide the seat forward and up.

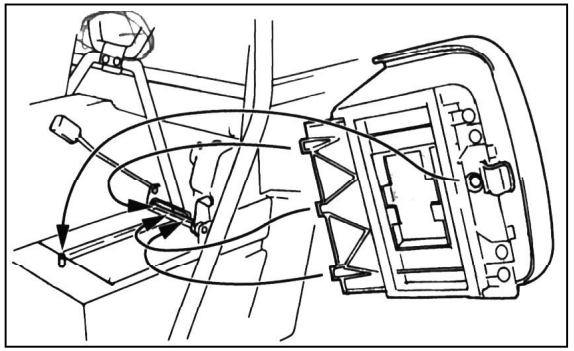


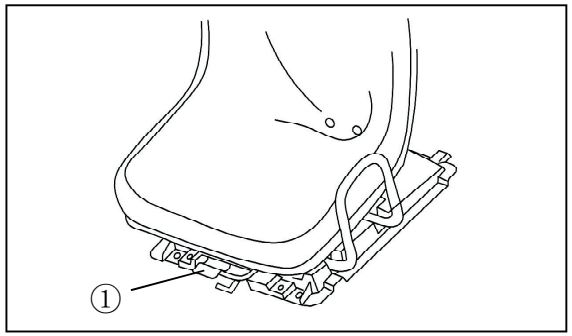
1. Driver seat 2. Passenger seat
3. Seat lock lever(x2)

To install a seat, insert the projections on the rear of the seat into the seat holders and push down on the seat at the front. Make sure the seats are securely latched.

⚠ WARNING

A loose seat could cause the operator to lose control, or cause the operator or passenger to fall.





1.Seat Rail Set

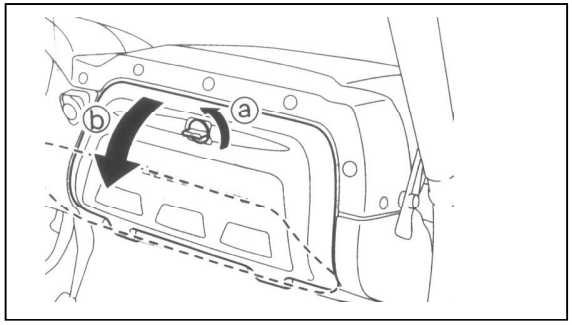
Seat belts

This vehicle is equipped with three-point seat belts for both the operator and the passenger. Always wear the seat belts properly when riding in the vehicle. See pages 7-6_7-8 more information

Glove compartment

NOTICE

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 cushioning material.



a. Unlock b. Open

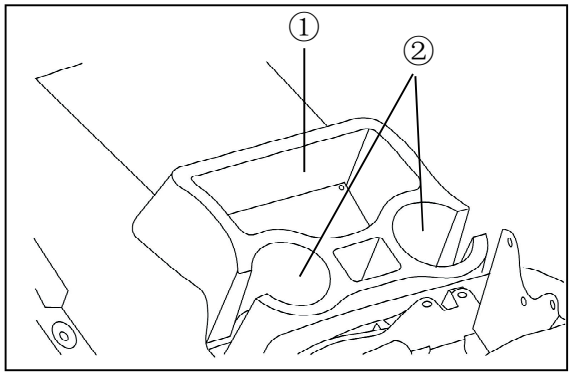
Cup holders

Be sure to tightly close the cap of any plastic bottle before placing it in a cup holder.

Some plastic bottles may not fit into the cup holders depending on their size and shape.

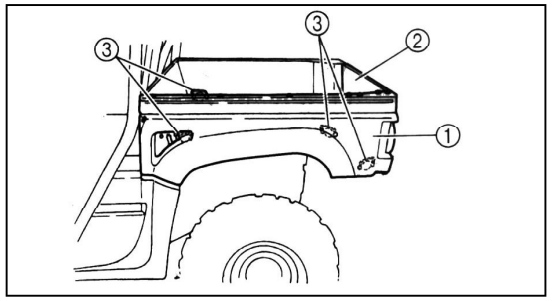
⚠ WARNING

- **While the vehicle is moving, do not place any open or glass containers in the cup holders; otherwise, the contents may spill and the glass containers may break.**
- **Do not place any items, other than cups or plastic bottles, in the cup holders; otherwise, they may bethrown out and possibly injure people in the vehicle during sudden braking or an accident.**



1. Storage/cup holder(X1) 2. Cup holder(X2)

Cargo bed

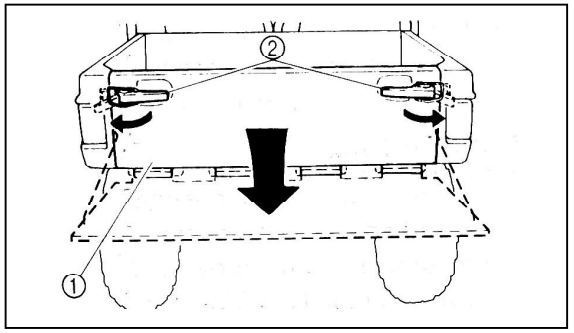


1. Cargo bed 2. Tailgate
3. Cargo hook(X4)

Maximum load limit: 181 kg(400 lb)

For additional loading information,
see page 6-9_6-11.

Opening and closing the tailgate



1. Tailgate 2. Latch(X2)

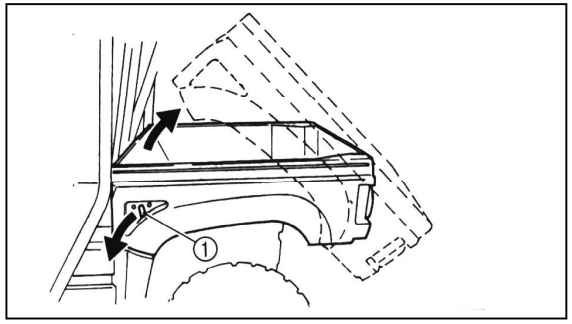
To open

Unhook the latches, and then lower the tailgate.

To close

Place the tailgate in the original position, and then hook the latches.

Lifting and lowering the cargo bed



1. Cargo bed release lever

To lift

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

To lower

With hands and fingers clear of pinch points, lower the cargo bed slowly to its original position and be sure it in locked into place.

⚠ WARNING

Keep hands, body, and other people away from pinch points when lowering bed. Do not hold onto the cage/frame while closing the bed.

Front and rear shock absorber adjustment

The spring preload can be adjusted to suit the operating conditions. You can reduce preload for a softer ride, or increase preload if frequent bottoming occurs or when carring loads.

⚠ WARNING

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

NOTICE

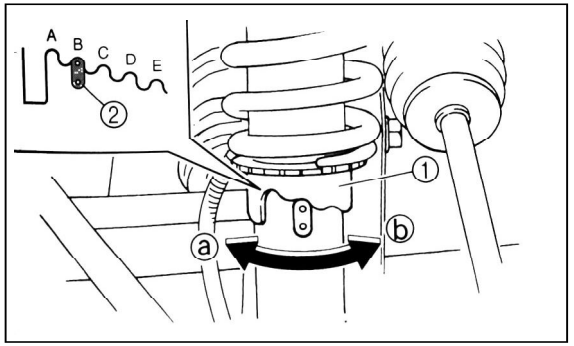
Frequent or severe bottoming can cause increased wear or damage to the vehicle.

The rear wheels need to be removed to adjust the rear shock absorber assemblies, (See pages 8-43_8-46 for wheel removal and stallation procedures.)

Adjust the spring preload as follows:

To increase the spring preload, turn the adjusting ring in direction ⓐ.

To decrease the spring preload, turn the adjusting ring in direction ⓑ.



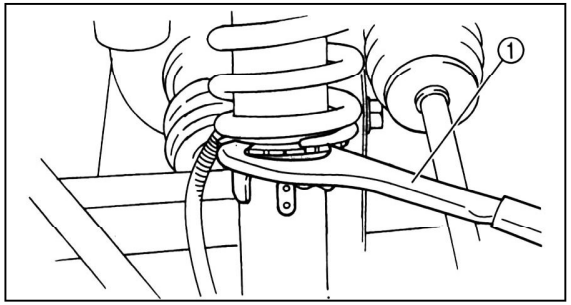
1. Spring preload adjusting ring
2. Position indicator

A special wrench can be obtained at a dealer to make this adjustment.

Standard postion: B

A- Minimum (soft)

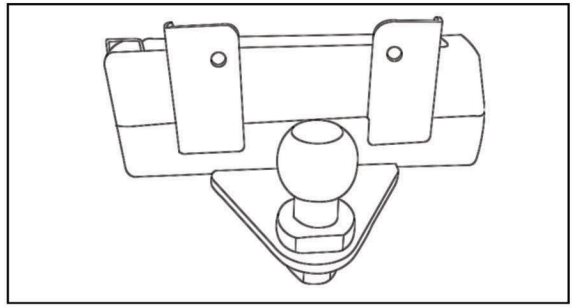
E- Maximum (hard)



1. Special wrench

Tralier hitch bracket and receiver

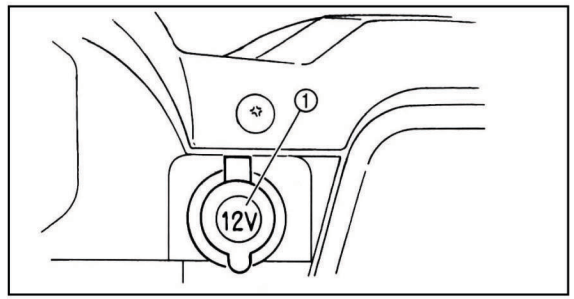
This vehicle is equipped with a trailer hitch bracket and a 5 cm(2 in) receiver for a standard trailer hitch. Trailer towing equipment can be obtained at a dealer. (See pages 6-9_6-11 for precaution information.)



1. Trailer hitch bracket

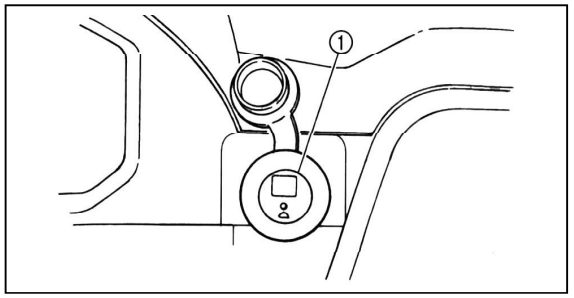
Auxiliary DC jack

The auxiliary DC jack is located at the right side of the front panel. The auxiliary DC jack can be used for suitable work lights, radios, etc. The auxiliary DC jack should only be used when the engine is running.



1. Auxiliary DC jack cap

1. Set the light switch to “OFF”
2. Start the engine. (See pages 6-2_6-3)
3. Open the auxiliary DC jack cap, and then insert the accessory power plug into the jack.



1. Auxiliary DC jack

Maximum rated capacity for the auxiliary DC jack:
DC 12V, 120 W (10A)

4. When the auxiliary DC jack is not being used, cover it with the cap.

NOTICE

- **Do not use accessories requiring more than the maximum capacity stated above. This may overload the circuit and cause the fuse to blow.**
- **If accessories are used without the engine running, the battery will lose its charge and engine starting may become difficult.**
- **Do not use the automotive cigarette lighter or other accessories with a plug that gets hot, because the jack can be damaged.**

FOR YOUR SAFETY - PRE - OPERATION CHECKS

Inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

⚠ WARNING

Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem. If a problem cannot be corrected by the procedures provided in this manual, have the vehicle inspected by a dealer.

Before using this vehicle, check the following points:

ITEM	ROUTINE	PAGE
Brakes	● Check operation, free play, fluid level, and fluid leakage. Fill with DOT 4 brake fluid if necessary.	
Parking brake	● Check for proper operation, condition, and free play.	
Fuel	● Check fuel level. ● Fill with fuel if necessary.	
Engine oil	● Check oil level. ● Fill with oil to proper level if necessary.	
Coolant reservoir	● Check coolant level ● Fill with coolant if necessary.	
Final gear oil/ Differential gear oil	● Check for leakage.	

ITEM	ROUTINE	PAGE
Accelerator	● Check for proper accelerator pedal operation.	
Seat belts	● Check for proper operation and belt wear.	
Steering	● Check for proper operation.	
Fitting and fasteners	● Check all fittings and fasteners.	
Lights and switches	● Check for proper operation.	
Wheels and tires	● Check tire pressure and for wear and damage.	
Axle boots	● Check for damage.	

Front and rear brakes

Brake pedal

Check for correct brake pedal free play. If the brake pedal free play is incorrect, have a dealer adjust it. (See page 8-37)

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 a dealer.

Brake fluid level

Check the brake fluid level. Add fluid if necessary. (See pages 8-36_8-37)

Recommended brake fluid: DOT 4

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 a dealer.

Brake operation

Check the operation of the brakes at the start If every ride. 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. (See pages 8-34_8-35, 8-37_8-40)

Fuel

Make sure there is sufficient gasoline in the tank.

⚠ WARNING

Gasoline and gasoline vapors are extremely flammable, To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.

1. Before refueling, turn off the engine and be sure that driver and passenger are outside the vehicle.

   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 heater and clothes dryers.
2. Do not overfill the fuel tank. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank.
3. Wipe up any spilled fuel immediately.
4. Be sure the fuel tank cap is closed securely.

⚠ WARNING

Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. 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.

Your engine has been designed to use regular unleaded gasoline with a pump octane number ([R+M]/2) of 86 or higher, or research octane number of 91 or higher, or research octane number of 91 or higher. If knocking or pinging occures, use a different brand of gasoline or premium unleaded fuel. Unleaded fuel will give you longer spark plug life and reduced maintenance cost.

Gasohol

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if ethanol content does not exceed 10%. Gasohol containing methanol is not recommended because it may cause fuel system damage or vehicle performance problems.

Recommended fuel:
Unleaded gasoline only
Fuel tank capacity:
29.5L (7.79 US gal)

Portable gas containers

If you carry a portable gas can in the bed of the STOUT X, be sure to secure it with the cap tightened before driving the vehicle.

Always place a portable gas container on the ground before filling it. Before removing the container cap, touch the container inlet when filling.

⚠ WARNING

Never refill a fuel container in the bed of any vehicle. Fire may result from a build-up of static electricity. The discharge of this build-up while refueling can cause a spark and ignite the gasoline.

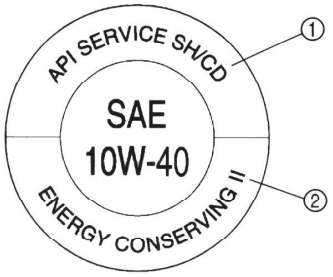
Engine oil

Make sure the engine oil is at the specified level.

Add oil as necessary. (See papes 8-10_5-15)

NOTICE

- **In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives with oil. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.**
- **Make sure that no foreign material enters the crankcase.**



1. "CD" specification
2. "ENERGY CONSERVING II"

Recommeded engine oil type and quantity
See page 10-2

Coolant

Check the coolant level in the coolant reservoir when the engine is cold (the coolant level will vary with engine temperature).

The coolant level is satisfactory if it is between the minumum and maximum level marks on the coolant reservoir. If the coolant level is at or below the minimum level mark. add additional coolant to bring the level up to maximum level mark. If coolant is not available, add distilled water. Change the coolant every two years. (See pages 8-21_8-22 for details)

NOTICE

Hard water or salt water is harmful to the engine. You may use soft water if you cannot get distilled water.

Coolant reservoir capacity (up to the maximum level mark: 0.32 L(0.28 lmp qt, 0.34 US qt)

Final gear oil

Make sure the final gear oil is at the specified level. Add oil as necessary. (See pages 8-16_8-18 for details.)

Recommended oil: SAE 80 API GL-4 Hypoid gear oil

If desired, an SAE 80W90 hypoid gear oil may be used for all conditions.

TIP

GL-4 is a quality and additive rating; GL-5 or GL-6 rated hypoid gear oils may also be used.

Differential gear oil

Make sure the differentilal gear oil is at the specified level. Add oil as necessary. (See pages 8-19_8-21 for details.)

Recommended oil: SAE 80 API GL-4 Hypoid gear oil

Accelerator pedal

Check to see that the accelerator pedal operates correctly. It must operate smoothly and spring back to the idle position fully when released. Have a dealer repair as necessary for proper operation.

Seat belts

Make sure that the seat belts are not grayed, torn, stretched, or damaged. The seat belt must move smoothly when pulled out and retract on its own when released. It must also lock up when quickly pulled out. The latch plate should click securely into the buckle and release when the release button is pushed firmly. Wash off any dirt or mud that could affect operation. Have a dealer repair as ncecessary for proper operation.

A crash can damage the restraint systems in your vehicle. A damaged restraint system may not properly protect the person using it , resulting in serious injury or death in a crash, To help make sure your restraint systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

Steering

Park on level ground. Turn the steering wheel right and left. Check for excessive free play, abnormal noises, or a rough feeling. Have a dealer repair as necessary for proper operation.

Fittings and fasteners

Always check the tightness of chassis fittings and fasterners before a ride. Take the vehicle to a dealer or refer to the Service Manual for correct tightening torque.

Lights

Check the headlights and tail/brake lights to make sure they are in working condition. Repair as necessary for proper operation.

Switches

Check the operation of all switches. Have a dealer repair as necessary for proper operation.

Control cables

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

⚠ WARNING

Control cables can freeze in cold weather and you could be unable to control the vehicle

Tires

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

Tires pressure

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

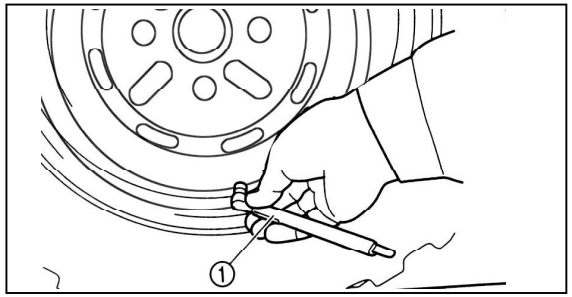
⚠ WARNING

Operation of this vehicle with improper tire pressure may cause severe injury or death from loss of control or rollover, Tire pressure below the minumum specified could aslo cause the tire to dislodge from the rim under severe riding conditions.

Set tire pressures to the following specifications:

	Recommeded Pressure	Minimum	Maximum
Front	70 kpa (0.70 kgf/cm^2 10 psi)	63 kpa (0.63kgf/cm^2 9 psi)	77 kpa (0.77 kgf/cm^2 11 psi)
Rear	98 kpa (0.98 kgf/cm^2 14 psi)	91 kpa (0.91kgf/cm^2 13 psi)	105 kpa (1.05 kgf/cm^2 15 psi)

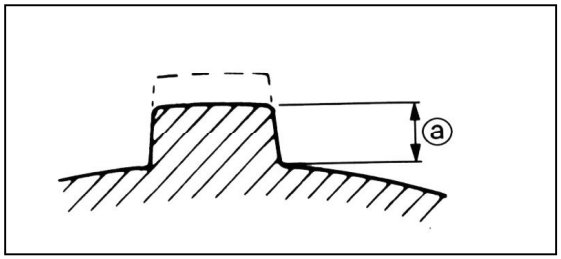
The tire pressure gauge is included as standard equipment. Make two measurements of the tire pressure and use the second reading. Dust or dirt in the gauge could cause the firest reading to be incorrect.



1. Tire pressure gauge

Tire wear limit

When the tire groove decreases to 3 mm (0.12 in) due to wear, replace the tire.



1. Tire wear limit

OPERATION

Read the Owner's Manual carefully to become familiar with all controls. If there is a control or funcition you do not understand, ask your dealer.

⚠ WARNING

Failure to familiarize yourself with the control can lead to loss of control, which could cause an accident or injury.

Engine break-in

There is never a more important period in the life of your vehicle than the periold between zero and 20 hours.

For this reason, we ask that you read the following material carefully. Because the engine is brand new, you must not put an excessive load on it for the first several hours of operation. During the first 20 hours, the various parts in the engine wear and polish themselves to achieve the correct operatoin clearances.

During this period, prolonged full-throttle operation or any condition that might result in excessive engine heating must be avoided. However, momentary (2-3 seconds maximum) full-throttle operation under load does not harm the engine.

Each full-throttle acceleration sequence should be followed with a substantial rest peridoc for the engine, by cruising at lower r/min so the engine can rid itself of the temporary build-up of heat. If any abnormality is noticed during this period, consult a dealer.

0-10 hours:

Avoid continuous operation above half-throttle. Allow a cooling-off period of five to ten minutes after every hour of operation. Vary the speed of the vehicle from time to time. Do not operate if at one set throttle position.

10-20 hours:

Avoid prolonged operation above three-quarter throttle.

After break-in:

The vehicle may now be operated normally.

Starting the engine

1. Turn the main switch to “ON”.

NOTICE

The coolant temperature warning light and engine trouble warning light should come on, then go off.

If a warning light does not go off, see page 4-4 for the corresponding warning light circuit check.

2. Apply the brake pedal.
3. Shift the drive select lever into the neutral positon

- When the drive select lever is in the neutral position, the neutral indicator light should come on. If the neutral indicator light does not come on, ask a dealer to inspect the electric circuit

- The engine can be started in any gear if the brake is applied. However, it is recommeded to shift into neutral before starting the engine.

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

If the engine fails to start, release the key, and then try starting it again. Wait a few seconds before the next attempt. Each attempt should be as short as possible, to preserve battery energy.

NOTICE

Do not crank the engine more than 5 seconds on each attempt, 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 may result.

TIP

For maximum engine life, never accelerate hard when the engine is cold!

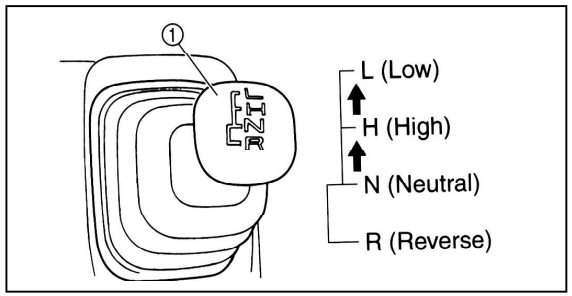
Drive select lever operation and reverse driving

NOTICE

Do not shift without coming to a complete stop and waiting for the engine to return to normal idle speed. Damage to the engine or drive train may occur.

Shifting: neutral to high and high to low

1. Stop the vehicle. Take your foot off the accelerator pedal.
2. Apply the brake pedal, then shift by moving the drive select lever along the shift guide. Make sure that the drive select lever is completely shifted into position.



1. Drive select lever

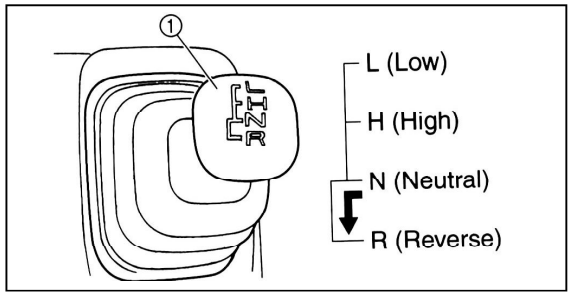
3. Release the brake pedal and press the accelerator pedal gradually.

Shifting: neutral to reverse

⚠ WARNING

Before you shift into reverse, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly. Hitting an obstacle or person could result in serious injury or death.

1. Stop the vehicle. Take your foot off the accelerator pedal and check behind you.
2. Apply the brake pedal.
3. Shift from neutral to reverse or vice versa by moving the drive select lever along the shift guide.
   - When in reverse, the reverse indicator light should be on. Due to the synchronizing mechanism in the engine, the light may not come on until the vehicle starts moving.
   - If the light does not come on, ask a dealer to inspect the reverse indicator light electrical circuit.

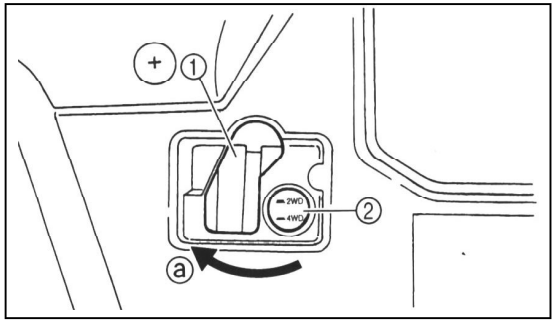


1. Drive select lever

4. Check behind the vehicle for people or obstacles, and then release the brake pedal.
5. Press the accelerator pedal gradually and continue to watch to the rear while backing

On-Command four-wheel-drive switch and differential gear lock switch

You may notice that the vehicle handles differently in 2WD, 4WD, and 4WD-LOCK (“DIFF. LOCK”). For example, you should expect that the vehicle will require more effort to turn in 4WD-LOCK (“DIFF. LOCK”). Always stop the vehicle before changing between 2WD and 4WD or 4WD and 4WD-LOCK (“DIFF. LOCK”).

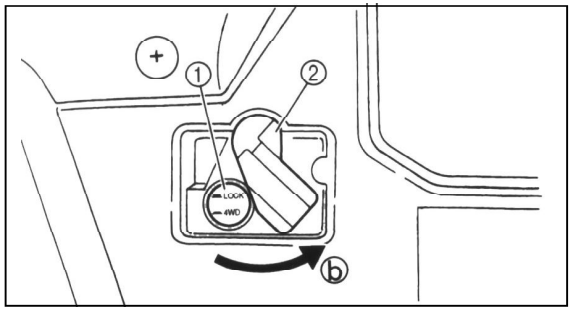


1. Differential gear lock lever
2. On-Command four-wheel-drive switch “2WD/4WD”

“2WD” / “4WD”

To change from 2WD to 4WD, stop the vehicle, and then set the switch to “4WD”. When the vehicle is in 4WD, the four-wheel-drive indicator “ ” will come on in the multi-function display. To change from 4WD to 2WD, stop the vehicle, be sure the differential gear lock lever is set to position ⓐ , and then set the switch to “2WD”

On-Command differential gear lock switch “4WD” / “LOCK”



1. Differential gear lock lever
2. On-Command four-wheel-drive switch “2WD/4WD”

To lock the differential gear in 4WD, stop the vehicle, make sure the On-Command four wheel-drive switch is set to “4WD”, move the differential gear lock lever to position ⓑ , and then set the switch to “LOCK”. When the differential gear is locked, the differential gear lock indicator light (“DIFF.LOCK”) will come on along with the differential gear lock indicator “ ” in the multi-function display. To release the differential gear lock, stop the vehicle and set the switch to”4WD”.

- When the switch is set to “LOCK”, the differential gear lock indicator and indicator light will flash until the differential gear is locked.
- When the indicator and indicator light are flashing, turning the steering wheel back and forth will help the differential gear lock to engage.

- Driving before the differential gear lock is properly engaged (e.g., when the indicator and indicator light are flashing) will cause the engine speed to be limited unitl engagement is complete.

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, S pages 7-17_7-18 for more information on parking and parking on a slope.

Loading

Take extra precautions when drivng with a load or trailer. Follow these instructions and always use common sense and good judgement when carrying cargo or towing a trailer.

Prepare your load or trailer

⚠ WARNING

Improper loading or towing can increase the risk of loss of control, an overturn, or other accident:

- **Do not exceed the Maximum Loading Limits for the vehicle (see box or vehicle labeling)**
- **Keep weight in the cargo bed centered side to side, and as low and as far forward as possible. Top-heavy loads increase the risk of overturn. Be sure cargo is secured- a loose load could change handling unexpectedly or strike occupants.**
- **Do not exceed the Maximum tongue weight.**
- **Make sure the load does not interfere with your control or ability to see where you are going.**
- **Tie down cargo in the trailer securely. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.**

Use the hooks equipped on the cargo bed to tie down loads.

Choose a trailer hitch drawbar designed for use with a 5 cm(2 in) receiver. (See page 4-23 for more information,)

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.

MAXIMUM LOADING LIMIT

- Vehicle loading limit (total weight of cargo, operator, passenger and accessories and tongue weights 367 kg (809 lb)
- Cargo bed: 181 kg (400 lb)
  Trailer hitch
- Pulling load (total weight of trailer and cargo): 550 kg (1,212 lb)
  Tongue weight (vertical weight on trailer hitch point): 50 kg (110 lb)

Operating when loaded with cargo or towing a trailer

Drive more slowly than you would without a load. The more weight you carry, the slower you should to. Although conditions vary, it is good practice to keep the vehicle in low gear whenever you are carrying heavier loads or when towing a trailer.

⚠ WARNING

Carrying loads or towing a trailer can increase the risk of loss of the control an overturn, or other accident. To reduce the risk of an accident:

- **Reduce speed, operate in low gear only, and allow more room to stop. A heavier vehicle takes longer to stop.**
- **Avoid hills and rough terrain. Choose terrain carefully. Use extreme caution when towing or carrying a load on inclines.**
- **Turn gradually and go slowly.**

Pulling something other than a trailer

We recommends that loads be transported in the bed or in a trailer. If you need to move an object a short distance use a winch and follow the winch manufacturer's instructions.

If you choose to use something other than a winch use exteme caution, follow the manufacturer's instructions for that product, and only attach to the hitch or hitch barcket of the YXQUAD X.

⚠ WARNING

Improperly pulling can cause serious injury or death. Never exceed the Pulling Load limit of the YXQUAD X. Avoid pulling on inclines.

Pulling objects on the ground can be more hazardous than pulling a trailer. It may be difficult to predict how the load will affect vehicle operation. That effect could also change depending upon terrain or what obstacles might be in the object's path.

BASIC GUIDE FOR SAFE USE

As a YXQUAD X owner you are responsible for the safe and proper operation of this vehicle. Read this chapter and review the safety instructions in Chapter 2 before operating the vehicle to instruct new operators and passengers. Do not allow anyone else to operate the vehicle or ride as a passenger if you are unsure that he/she is willing and able to follow these instructions.

⚠ WARNING

Follow these instructions to reduce your risk of an accident and to reduce the risk of serious injury or death in the event of an accident.

KNOW YOUR VEHICLE

This off-road vehicle will handle and maneuver differently from cars, ATVs, go-carts, golf-cars and grounds-keeping vehicles. This YXQUAD X has higher ground clearance and other features to handle ruggeed terrain, and, as a result, can overtrun in situations where some vehicles may not. This would include vehicles made primarily for pavement, roads, improved paths, or grounds-keeping. If you do not use care in maneuvering the YXQUAD X, you can cause it to rolll over even on flat,open areas.

Doing things with a YXQUAD X that some people do for thrills in other vehicles (such as side-ways sliding,skidding, fishtailing, or donuts) have led to side rollovers. These rollovers can result in crushed limbs and other serious injuries or death to drivers or passengers.

As the owner/operator, it is your responsibility to protect yourself and your passenger from accidents, including rollovers. The YXQUAD X has many features, including a protective structure and seat belts, to help ptotect occupants, but the best way to avoid injuries is to avoid accidents. There is a risk of injury or death in an accident, even with these safety features.

Drive requirements

- This vehicle is intended for use only by an operator 16 or older with a valid motor vehicle license.

- The driver must be able to place both feet flat on the floorboard while seated upright with his/her back against the seat back.
- Do not drive after using drugs or alcohol

Remove the ignition key when the vehicle is not in use to prevent unauthorized use of the machine.

Parents:

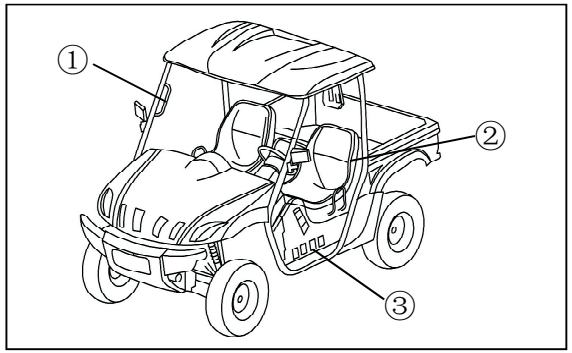
Many states have implemented new motor vehicle licensing requirements for young drivers. These requirements are in response to the disproportionately high rate of crashed involving youthful drivers. As with automobiles, to promote safe driving behaviors, you should supervise younger drivers and consider setting rules and putting limits on how, when, and where the YXQUAD X can be used.

Passenger requirements

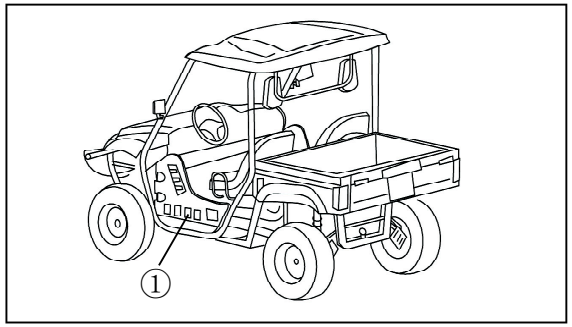
This vehicle is designed for the operator and one passenger. Carrying passengers improperly can lead to serious injury or death. As the operator, you are responsible for your passenger.

- Your passenger must be able to place both feet on the floorboard while seated upright with his/her back against the seat back.
- Allow only one passenger in the vehicle and only in the passenger seat. Do not carry any other passengers. Do not carry passengers in the cargo bed.
- Do not allow someone to ride as a passenger who has been using drugs or alcohol.

Occupant protection system



1. Passenger handhold 2. Seat belt
3. Door



1. Door

⚠ WARNING

Do not make changers to the occupant protection system. If you install after-market products or have your vehicle modified, you may put yourself and others at greater risk of serious injury or death. You are responsible for any such changes to the vehicle.

The YXQUAD X comes with a variety of features to help reduce the risk of driver and passenger injury. These features work together, and when properly used, these features will help protect the occupants in the event of an accident. If these features are not used properly, they can cause injury.

Protective structure

The vehicle cage/frame provides a protective structure that helps limit intrusions by branches or other objects and may reduce your risk of injury in accidents. The protective structure will not protect occupants in all rollovers or accidents.

Body parts outside of vehicle can be struck by passing objects or crushed during vehicle rollover. Do not put your hands or feet outside of the vehicle for any reason. Do not hold onto the door, cage/frame or hip restraint bar. Wear your seat belt and helmet.

If you think or feel that the vehicle may tip or roll, do not put your hands or feet outside the vehicle for any reason. You will not be able to stop the vehicle from tipping over using your body. Any part of your body (arms, legs, or head) outside of the vehicle can be crushed by the vehicle cage/frame.

Seat belts

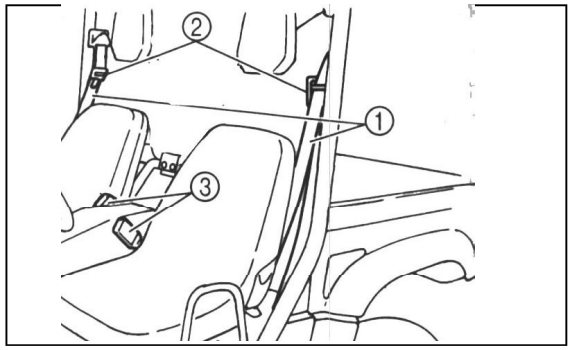
Seat belts should be worn by both driver and passenger. Driver must be sure that the passenger is belted before driving.

- Be sure the seat belt is not twisted, is close-fitting across the hips and chest, and is latched securely.
- Do not wear the lap belt across the abdomen or stomach.
- Do not put the shoulder belt behind the back.

Failure to use seat belts properly may lead to an increased likelihood and severity of injury.

An unbelted occupant may strike the interior of the vehicle, the protective structure, or other objects in an accident or during operation. You may also fall completely out or be partially ejected from the vehicle, which may lead to being crushed between the ground and the vehicle. Wearing the seat belt helps you remain in the vehicle-the doors and handholds are not a substitute for using a seat belt.

A crash can damage the restraint systems in your vehicle. A damaged restraint system may not properly protect the person using it, resulting in serious injury or death in a crash. To help make sure your restraint systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

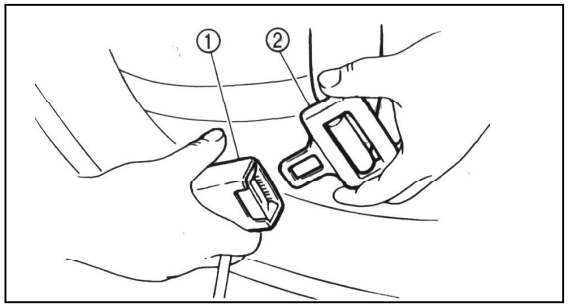


1. Seat blet(x2) 2. Latch plate(x2)
3. Buckle(x2)

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 your car carrying.

2. If the latch plate is not positioned in the correct location along the seat belt, squeeze the latch plate ends together along its long edges in order to more easily adjust its location up or down along the length of the belt.
3. Push the latch plate into the buckle until it clicks. Pull up on the latch plate to make sure it is secure.

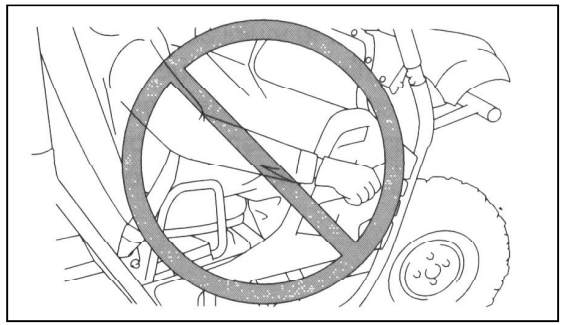


1. Buckle 2. Latch plate

4. Put the lap portion of the belt low on your hips. Pull up on the shoulder part so the belt is snug across your hips.
5. Position the shoulder belt over your shoulder and across your chest. The shoulder belt should fit against your chest. If it loose, pull the belt out all the way and then let it retract.
6. To release the buckle, firmly press the release button.

Doors

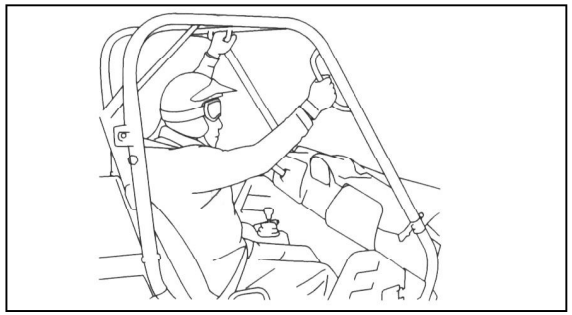
The doors are designed to reduce the likelihood that you will stick your leg out to stop the vehicle from tipping over or for any other reason in rollover. The doors may also reduce intrusion of objects into the occupant area. Make sure the door is securely latched before operation. Do not place your arm or hand on the door during operation. Your head or arm may be struck by objects or crushed against outside objects or the ground during a rollover.



Passenger handholds

Handholds are provided to trip during opeartion to maintain proper position and balance. Holding onto the handholds helps to reduce the likelihood that the passenger puts a hand outside the vehicle if the vehicle begins to tip. There are two handholds on the protective structure and two handholds on the passenger's left side, for the right and left hands.

The driver should make sure the passenger is holding onto the handholds with both hands before operation the vehicle.



Seat and hip restraints

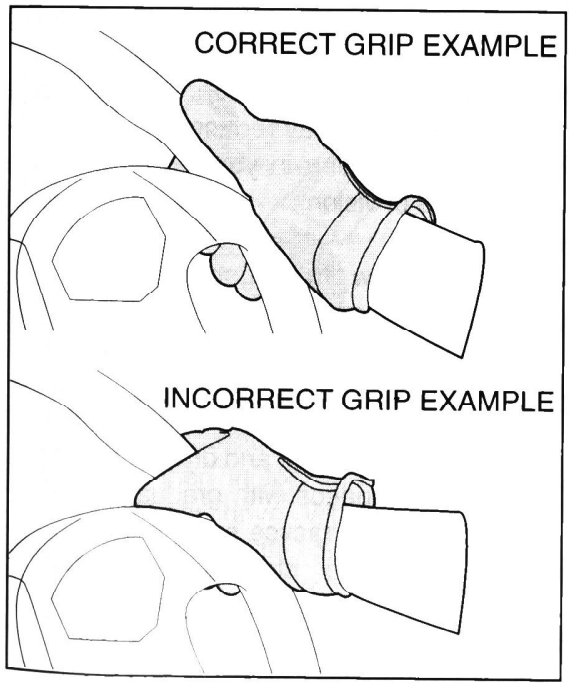
The Seat and hip restraints are designed to help keep you in the vehicle. Do not hold onto hip restraint bar when the vehicle is moving. Your hand or arm may be struck by objects or crushed against outside objects or the ground during a rollover.

Floorboard

The floorboard allows you to brace your feet, which helps you keep your body in the vehicle in the event of an accident or rollover. Keep your feet on the floorboard during operation.

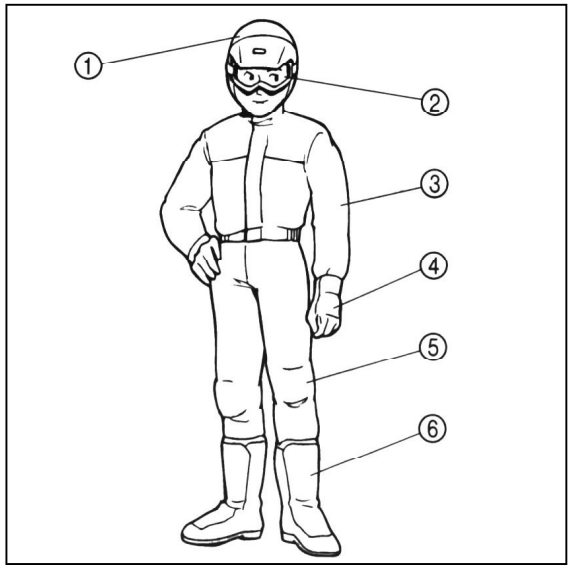
Steering wheel

Keep both hands on the steering wheel. Do not hold the steeering wheel with your thumbs inside the rim. Keep your palms on the outside of the steering wheel. Similar to other offroad vehicles, if the Rhino hits a deep rut or large obstacle, the steering wheel could briefly jerk in one direction or back and forth as the tires and vehicle respond to the obstacle. This quick motion could injure your thumbs or wrist if your thumbs or hand(s) are inside the steering wheel. Grip the steering wheel so that your thumbs will not be hit by the spokes. As an example, see the illustration.



LEARNING TO OPERATE YOUR VEHICLE

Personal protective equipment



1. Approved motorcycle helmet
2. Eye protection
3. Long-sleeved shirt or jacket
4. Gloves
5. Long pants
6. Over-the-ankle boots

Both driver and passenger should wear the following to reduce risk of injury in an accident:

- Approved motorcycle helmet that fits properly
- Eye protection (goggles, helmet face shield, or protective eyewear)
- Over-the-ankle boots, gloves, long-sleeved shirt or jacket, and long pants

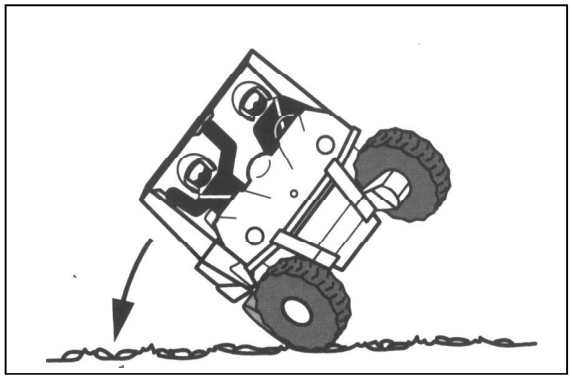
An approved helmet and other personal protective equipment can help in a variety of ways, including:

- Reduce the severity of injuries if any part of you is outside the vehicle cage/frame protective structure during a rollover.
- Help protect you if outside objects intrude inside the vehicle during operation.
- Help protect you in the event of vehicle impact with an obstacle.

Wear eye protection when operation or riding the vehicle to reduce the risk of a serious accident or injury. Eye protection, such as a face shield or goggles, may reduce the risk of foreign material getting in your eyes and help prevent loss of vision.

Practice for new Rhino users

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 controlling the accelerator pedal, brakes, steering, and drive select lever. Drive at slow speeds with gradual acceleration and turning. Practice smooth throttle application. Practice slowing down before turning. Practice maintaining a steady throttle through the turn. Avoid higher speeds until you are thoroughly familiar with the operation of your vehicle. Remenber, driving aggressively or making abrupt maneuvers even on flat, open areas can cause side rollovers.



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) and four-wheel drive with the differential locked (DIFF.LOCK). Steering may take more effort in 4WD with the differential locked(DIFF.LOCK). Also practice driving in reverse.

Take the time to learn basic operation of the vehicle before attempting more difficult maneuvers.

Getting ready to ride

Perform the Pre-Operation Checks on pages 5-1_5-11. Follow the instructions starting on pages 6-2_6-3 to start the engine.

Turning

Use care in turns-turning the steering wheel too far too fast can result in loss of control or a rollover. Slow down before entering turns. When making tight turns from a standstill or at slow speeds, avoid sudden or hard acceleration. Driving aggressively or making abrupt maneuvers even on flat, open areas can cause side rollovers. Avoid sideways sliding, skidding, or fishtailing, and never do donuts. If you feel the YXQUAD X begin to slide sideways or fishtail during a turn, steer into the direction of the slide, if possible, and gradually let off the accelerator pedal to regain directional control and avoid rollover. For example, if you feel the back of the vehicle start to slide to your right, steer to the right.

If you think or feel that the vehicle may tip or roll, keep your body completely inside the protective structure of the vehicle.

- Brace yourself by pressing your feet firmly on the floorboards and keep a firm grip on the steering wheel or handholds.
- Do not put your hands or feet outside of the vehicle for any reason. Do not try to stop a tipover using your arm or leg.

Accelerating

With the engine idling in neutral and your foot on the brake, shift the drive select lever into low or high.

NOTICE

Do not shift from low to high or vice versa without coming to a complete stop and waiting for the engine to return to normal idle speed-damage to the engine or drive train may occur. Then release the parking brake.

Press the accelerator pedal slowly and smoothly. The centrifugal clutch will engage and the vehicle will begin to accelerate.

Avoid higher speeds and sudden or hard acceleration until you are thoroughly familiar with the operation of your vehicle. Avoid sudden or hard acceleration in any turn.

Braking

When slowing down or stopping, take your foot off the accelerator pedal and press the brake pedal smoothly. Improper use of the brakes can cause the tires to lose traction, reducing control of the vehicle and increasing the possibility of an accident.

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

Engine braking

Engine compression braking is designed to assist you when operation your YXQUAD X off-road. With this feature, the engine helps slow the vehicle down after you take your foot off the accelerator. Engine braking is more noticeable in 4WD. Application of vehicle brakes provides additional stopping power.

Leaving the vehilce

Do not get out of the vehicle while the engine is running and the drive select lever is in any gear. There is a risk of injury because:

- Children or others may accidentally press the accelerator pedal.
- Objects tossed into the vehicle may strike the accelerator pedal.
- The parking brake may not keep the vehicle from acceleration.

Unwanted vehicle movement can cause serious injury or death, and it may be dangerous to try to stop the vehicle.

Parking on a flat area

When parking on a flat area, 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 slope

The parking brake acts only on the rear wheels when in 2WD. For the parking brake to take effect on four wheel, shift to 4WD Diff.Lock before stopping the engine.

If you park on a hill that is too steep the vehicle may roll out of control, Never park on hills that are so steep you cannot walk up them easily. If YOU must park on an incline follow these instructions:

1. Bring the vehicle to a stop by applying the brakes.
2. Put the vehicle in 4WD Diff.Lock.
3. Turn the engine off.

4. With the brake applied, set the parking brake.
5. Block the front and rear wheels with rocks or other objects.

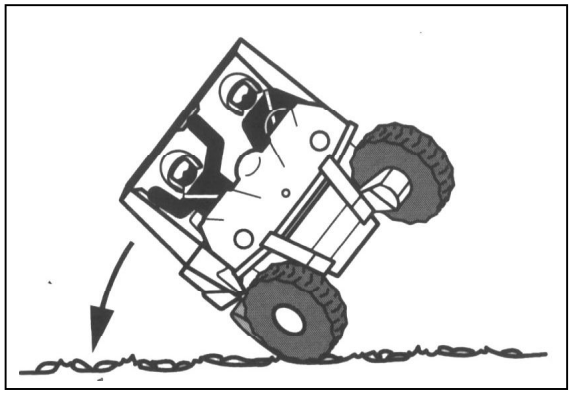
Loading

The total weight of operator, passenger, accessories, cargo, trailer tongue weight, and the vehicle itself must not exceed 907 kg(2,000 lb). Vehicle loading can affect handling. See “Loading” on page 6-9_6-11.

Operation on different surfaces and terrains

Go slowly and proceed with caution when operation on an unfamiliar surface or terrain. This vehicle may handle differently in certain types of terrains or on certain surfaces. You may come upon hidden rocks, bumps, or holes without enough time to react. To avoid loss of control or rollover, always be alert to changing surfaces or terrain when operation the vehicle.

The YXQUAD X has higher ground clearance and other features to handle rugged terrain, and as a result, can overturn in situations where some vehicles may not. Abrupt maneuvers or aggressive driving can cause loss of control, including rollovers-even on flat, open areas. These rollovers can result in crushed limbs and other serious injuries or death to drivers or passengers.



Hills

Choose carefully which hills you attempt to climb or descend. Avoid hills with slippery surfaces or those where you will not be able to see far enough ahead of you. Use common sense and remember that some hills are too steep for you to climb or descend. Use proper driving techniques to avoid rearward, forward, or sideways rollovers on hills and slopes.

Drive straight up and down inclines, not across them. If crossing a hill is unavoidable, drive slowly. Turn downhill immediately if you feel the vehicle may tip.

If you think or feel the YXQUAD X may tip or roll:

- Brace yourself by pressing your feet firmly on the floorboards and keep a firm grip on the steering wheel or handholds.
- Do not put your hands or feet outside of the vehicle for any reason.

Uphill

Do not attempt to climb hills until you have mastered basic maneuvers on flat ground. Drive straight up hills, and avoid crossing the side of a hill, which increase your risk of rollover. Practice first on gentle slopes before attempting steeper hills. Always check the terrain carefully before attempting any hill.

To climb a hill, you need traction, momentum, and steady throttle. For more traction and control for climbing steeper and/or rougher slopes, shift into low gear and select 4WD or 4WD Diff.Lock. Travel fast enough to maintain momentum, but not so fast that you can not react to changes in the terrain as you climb.

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

If you start to lose traction or momentum when climbing, and decide you will be unable to continue, use the brakes to stop. Do not attempt to turn the vehicle around. With your foot on the brake pedal, look behind you and plan your descent. Shift the drive select lever into reverse so you can use engine braking to slow your descent. Release the brake and begin to coast down the hill. Use engine braking as much as possible, gently applying the brakes when necessary.

Downhill

Check the terrain carefully before going downhill. When possible, choose a path that lets you drive your vehicle straight downhill. Choose your path carefully and drive slowly enough to be able to react to obstacles that you encounter.

For more traction and control, before going down steeper and/or rougher slopes, shift into low gear and select 4WD or 4WD Diff.Lock, Engine braking will help you go downhill slowly. Go as slowly as possibe. If you begine to go too fast, apply the brakes gently. Avoid hard application of the brakes, which could cause the vehicle to slide.

If you are sliding or skidding, try to steer in the direction the vehicle is sliding, to regain control. For example, if you feel the back of the vehicle start to slide to your right, steer to the right.

If you must turn on the hilll to avoid an obstacle, do so slowly and carefully. If the vehicle starts to tip, immediately 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.

Rough terrain

Operation over rough terrain should be done with caution.

- Look for and avoid obstacles that could cause damage to the vehicle or could lead to a rollover or accident.
- Do not drive in a way that will get the Rhino airborne, as injury, loss of control, and damage to the vehicle could occur.

Pavement

This vehicle is designed for off-road use only. Avoid paved surfaces. Turn gradually and go slowly if you must drive on pavement.

Water

If you must cross shallow, slow-moving water up to the depth of the vehicle's floorboards, 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 33 cm(13 in) or fast-flowing water. Chosse a path where both your entrance into and exit point from the water is a gradual incline. Determine the water depth and currents before crossing.

Operating this vehicle through deep or fast-flowing water can lead to loss of control or overturn. To reduce your risk of drowning or other injuries, use care when crossing through 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.

NOTICE

After driving your vehicle in water, be sure to drain the trapped water by removing the check hose at the bottom of the air filter case, the V-belt cooling duct check hose, the drive select lever box check hose and the V-belt case drain plug. Wash the vehicle in fresh water if it has been operated in salt water or muddy conditions

Loose terrain/slippery terrain

When driving on slippery terrain, including wet, muddy, or icy conditions, as well as loose gravel, be aware that you could begin skidding or sliding. To avoid loss of control, slow down and put the YXQUAD X in 4WD before driving on a slippery surface and plan your path to avoide making abrupt maneuvers.

If you feel the YXQUAD X begin to slide sideways or fishtail during a turn, steer into the direction of the slide if possible, to regain directional control. For example, if you feel the back of the vehicle start to slide to your right, steer to the right.

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. Watch for brush that might enter the vehicle as you pass and strike you or the passenger. Never hold onto the cage/ frame. The passenger should always hold onto the handholds with both hands.

The muffler and other engine parts become extremely hot during operation and remain hot after the engine has stopped. To reduce the risk of fire during operation or after leaving the vehicle, do not let brush, grass and other materials collect under the vehicle, near the muffler or exhaust pipe, or next to other hot parts. Check under the vehicle after operationg in areas where combustile materials may have collected. Do not idle or park the vehicle in long dry grass or other dry ground cover.

Encountering obstacles

If you cannot go around an obstacle, such as a fallen tree or a ditch, stop the vehicle where it is safe to do so. Set the parking brake and ge out to inspect the area thoroughly. Look from both your approach side and exit side. If you believe you can continue safely, choose the path that will allow you to get over the obstacle and at as close to a right angle as possible to minimize vehicle tipping. Go only fast enought 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.

PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment, and lubrication will keep your vehicle in the safest and most efficient condition possible.

Safety is an obligation of the vehicle owner/operator. The most important points of vehicle inspection, adjustment, and lubrication are explained on the following pages.

⚠ WARNING

Failure to properly maintain the vehicle or performing maintenance activities incorrectly may increase your risk of injury or death during service or while using the vehicle. If you are not familiar with vehicle service, have a dealer perform service.

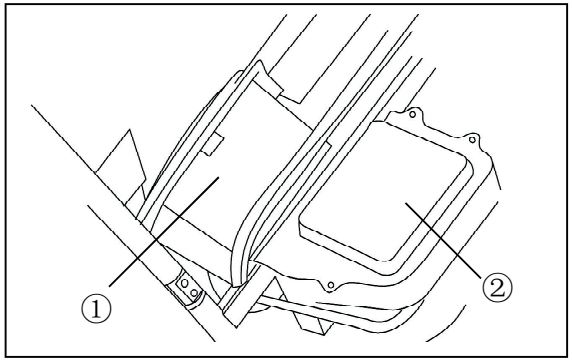
⚠ WARNING

Turn off the engine when performing maintenance unless other wise specificed.

- **A running enging has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires.**
- **Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning - possibly leading th death. See page 2-5 for more information about carbon monoxide.**

Owner's manual and tool kit

You are recommended to put this owner's manaul in the vinyl bag. Put the owner's tool kit and tire pressure gauge in the space beside the battery.



1. Box
2. Battery

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs.

The tools provided in the owners's tool kit are sufficient for this purpose, except that a torque wrench is also necessary to properly tighten nuts and bolts.

If you do not have a torque wrench available during a service operation requiring one, take your vehicle to a dealer to check the torque settings and adjust them as necessary.

Periodic maintenance chart for the emission control system

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

ITEM	ROUTINE	Whichever comes first		INITAIL			EVERY	
			month	1	3	6	6	12
			km	320	1,200	2,400	2,400	4,800
			(mi)	(200)	(750)	(1,500)	(1,500)	(3,000)
			hours	20	75	150	150	300
Fuel line	● Check fuel hose for cracks or damage ● Replace if necesary.					O	O	O
Valves	● Check valve clearnace. ● Adjust if necessary.			O		O	O	O
Spark plug	● Check condition. ● Adjust gap and clean. ● Replace if necessary.			O	O	O	O	O
Crankcase breather system	● Check breather hose for cracks or damage. ● Replace if necessary.					O	O	O
Exhaust system	● Check for leakage. ● Tighten if necessary. ● Replaxe gasket(s) if necessary.					O	O	O
Spark arrester	● Clean.					O	O	O

General maintenance and lubrication chart

ITEM	ROUTINE	Whichever comes first		INITAIL			EVERY	
			month	1	3	6	6	12
			km	320	1,200	2,400	2,400	4,800
			(mi)	(200)	(750)	(1,500)	(1,500)	(3,000)
			hours	20	75	150	150	300
Cooling	● Check coolant leakage ● Repair if necessary ● Replace coolant every 24 months			O	O	O	O	O
Air filter element	● Clean ● Replace if necessary			Every 20-40 hours (More often in wet or dusty areas.)				
Engine oil	● Replace (warm engine before draining).			O		O	O	O
Engine oil filter cartridge	● Replace			O		O		O
Final gear oil	● Check oil level/oil leakage			O				O
Differential gear oil	● Replace							
Front brake	● Check operation/brake pad wear/fluid leakage ● Correct if necessary. ● Replace pads if worn to the limit			O	O	O	O	O
Rear brake	● Check operation/brake pad wear/fluid leakage ● Correct if necessary. ● Replace pads if worn to the limit			O	O	O	O	O
Parking brake	● Check operation and free play play/brake pad wear ● Correct if necessary. ● Replace pads if worn to the limit			O	O	O	O	O
Accelerator pedal	● Check operation and free play			O	O	O		O
V-belt	● Check operation ● Check for wear, cracks, or damage			O			O	O
Wheels	● Check balance/damage/runout ● Repair if necessary			O		O	O	O

ITEM	ROUTINE	Whichever comes first		INITAIL			EVERY	
			month	1	3	6	6	12
			km	320	1,200	2,400	2,400	4,800
			(mi)	(200)	(750)	(1,500)	(1,500)	(3,000)
			hours	20	75	150	150	300
Wheel bearings	● Check bearing assemblies ofr looseness/damage ● Replace if damaged			O		O	O	O
Front and rear suspension	● Check operation and for leakage ● Correct if necessary					O		O
Steering system	● Check operation and for looseness ● Replace if damaged ● Check toe-in/Adjust if necessary			O	O	O	O	O
Rear upper and lower knuckle pivots	● Lubrcate with lithium-soap-based gease					O	O	O
Drive shaft universal joint	● Lubricate with lithium-soap					O	O	O
Engine mount	● Check for cracks or damage ● Check bolt tightness					O	O	O
Front and rear axle boots	● Check operation ● Replace if damaged			O				O
Stabilize bushings	● Check for cracks or damage					O	O	O
Fitting and fasteners	● Check all chassis fittings and fasteners ● Correct if necessary			O	O	O	O	O

Recommended brake flud: DOT 4

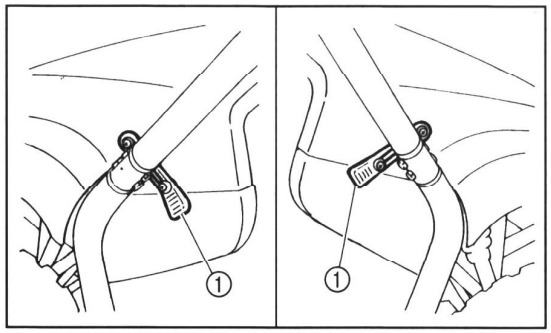
Brake fluid replacement:

- Replace the brake fluid when disassembling the master cylinder or caliper.
- Check the brake fluid level regularly and add fluid as required
- Replace the oil seals on the inner parts of the master cylinder and caliper every two years
- Replace the brake hoses every four years, or if cracked or damaged.

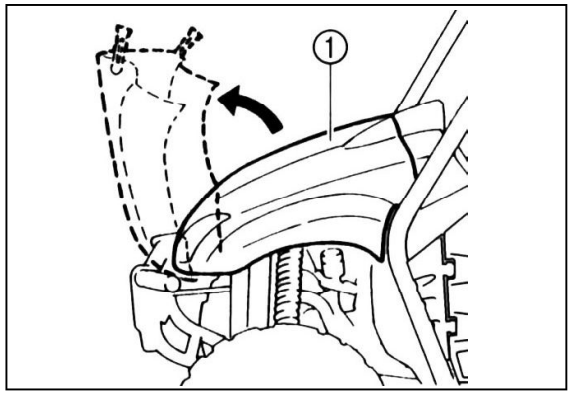
Hood

To open

Unhook the hood latches, and then slowly tilt the hood up until it stops.



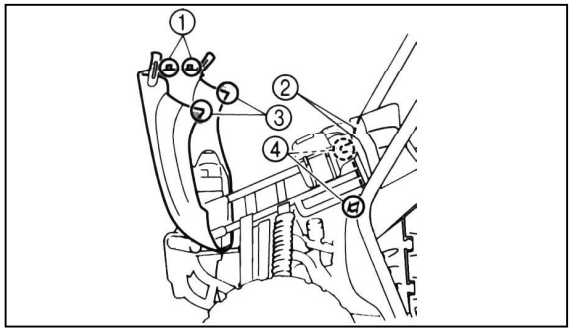
1. Latch(x2)



2. Hood

To close

Lower the hood slowly to its original positon, and then hook the hood latches. Secure projections (1) on the rear of the hood into slots (2) on the back of the instrument panel. Secure slots (3) on the side of the hood around projections (4) on the frame.



1. Projection(x2) 2. Slot(x2)
3. Slot(x2) 4. Projection(x2)

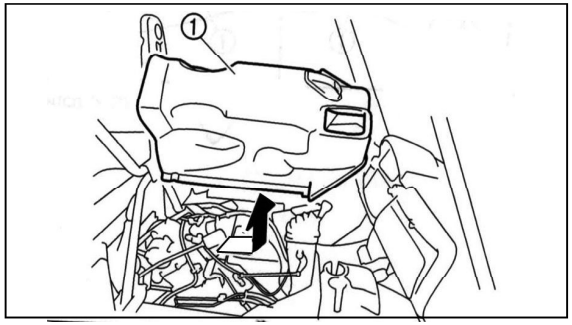
NOTICE

- **Make sure that all cables and wires are in place when closing the hood.**
- **Do not drive the vehicle with the hood open, unlatched, or removed.**

Console

To remove

1. Remove the seats. (See page 4-16_4-17 for seat removal and installation procedures)
2. Remove the parking brake lever boot.
3. Pull the console forward and upward (the drive select lever boot will come loose). To ease removal of the console, shift the drive select lever into the low gear “L” position.



1. Console

To install

1. Place the console in its original position
2. Install the parking brake lever boot.
3. Install the seats.

NOTICE

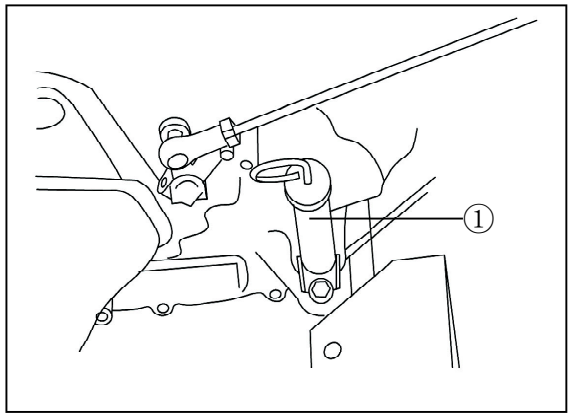
- **Be sure to position the seat belt buckles to the outside of the console.**
- **When installing the console, be sure not to pinch the cables or wires.**
- **Make sure that the groove at the bottom of the parking brake lever boot and the drive select lever boot fits securely around the edge of the hole in the console.**

Engine oil and oil filter cartridge

Check engine oil level before each operation. In addition, change the oil and the oil filter cartridge at the intervals specified in the periodic maintenance and lubrication chart.

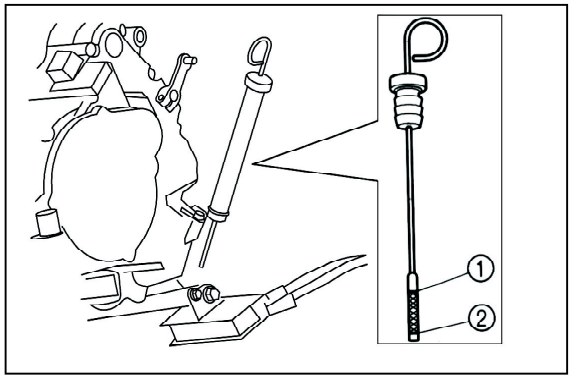
To check the engine oil level

1. Park the vehicle on a level surface.
2. Remove the console. (See page 8-9 for console removal and installation procedures.)
3. Check the engine oil level on a cold engine. If the engine was started before checking the oil level, be sure to warm up the engine sufficiently, and then wait at least ten minutes until the oil settles for an accurate reading.
4. Remove the dipstick, and then wipe it off with a clean rag.



1. Dipstick

5. Insert the dipstick completely into the oil filler hole, and then remove it again to check the oil level. The engine oil should be between the minimum and maximum level marks.

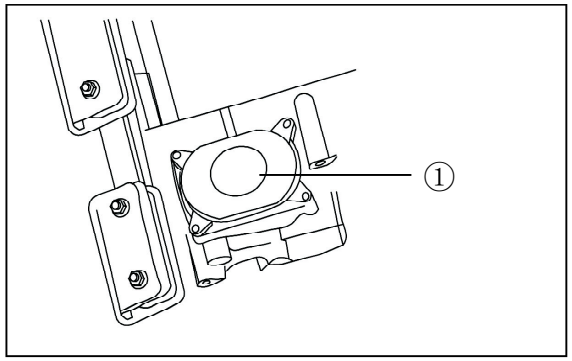


1. Maximum level mark 2. Minumum level mark

6. If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
7. Insert the dipstick completely into the oil filler hole.
8. Reinstall the console.

To change the engine oil (with or without oil filter cartridge replacement)

1. Park the vehicle on a level surface.
2. Remove the console. (See page 8-9 for console removal and installation procedures.)
3. Start the engine, warm it up for several minutes, and then turn off.
4. Place an oil pan under the engine to collect the used oil, and then remove the dipstick.
5. Remove the engine oil drain bolt to drain the oil from the crankcase.

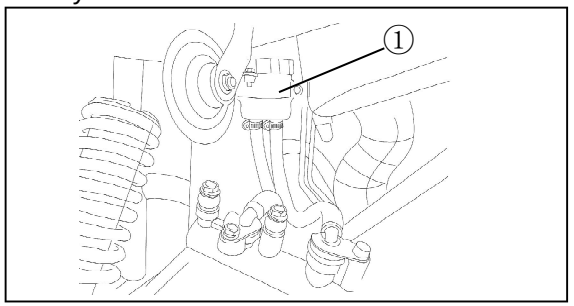


1. Engine drain bolt

Skip steps 6-10 if the filter cartridge is not being replaced.

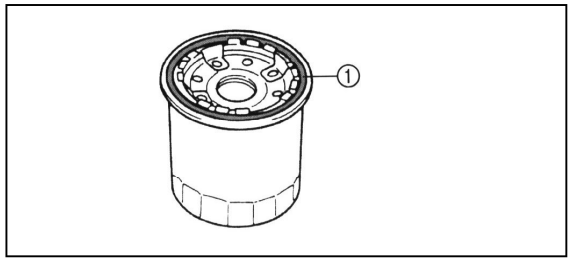
6. Lift the cargo bed up. (See pages 4-20_4-21 for cargo bed lifting and lowering procedures.)

7. Remove the oil filter cartridge with an oil filter wrench. An oil filter wrench is available from a dealer. Make sure that the O-ring is removed together with the oil filter cartridge. If the O-ring remains attached to the crankcase, oil leakage may occur.



1. Oil filter cartridge

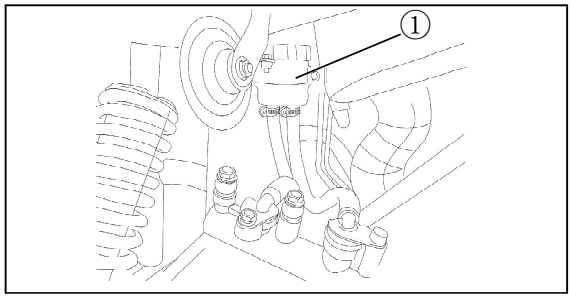
8. Apply a light coat of clean engine oil to the O-ring of the new oil filter cartridge. Make sure the O-ring is seated properly.



1. O-ring

9. Install the new oil filter cartridge with an oil filter wrench, and then tighten it to the specified torque with a torque wrench.

Tightening torque:
Oil filter cartridge:
17 Nm (1.7 m-kgf, 12 ft-lbf)



1. Oil filter cartridge 2. Torque wrench

10. Lower the cargo bed.
11. Reinstall the engine oil drain bolt, and then tighten it to the specified torque.

Tightening torque:
Engine oil drain bolt:
30 Nm (3.0 m-kgf, 22 ft-lbf)

12. Refill with the specified amount of recommended engine oil, and then insert the dipstick completely into the oil filler hole.

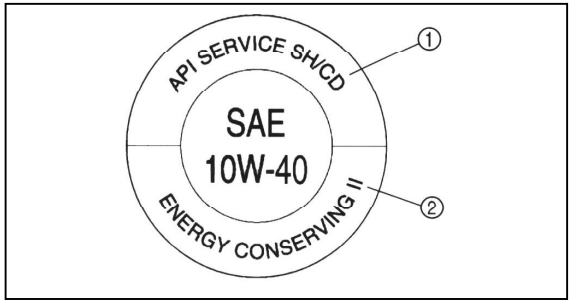
NOTICE

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

Recommended engine oil:
See page 10-2
Oil quantity:
Without oil filter cartridge replacement:
2.00 L(1.76 lmp qt, 2.11 US qt)
With oil filter cartridge replacement:
2.10 L(1.85 lmp qt, 2.22 US qt)

NOTICE

- **In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives with oil. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.**
- **Make sure that no foreign material enters the crankcase.**



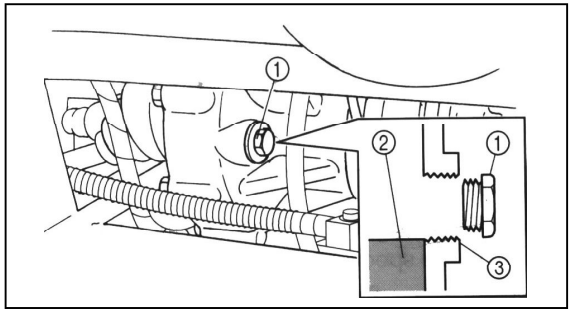
1. "CD" specification
2. "ENERGY CONSERVING II"

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

Final gear oil

Checking the final gear oil lever

1. Park the vehicle on a level surface.
2. Remove the oil filter bolt, and then check the oil level in the final gear case. The oil level should be at the brim of the filler hole.



1. Final gear oil filler bolt 2. Final gear oil
3. Correct oil level

3. If the oil is below the brim of the filler hole, add sufficient oil of the recommended type to raise it to the correct level.

NOTICE

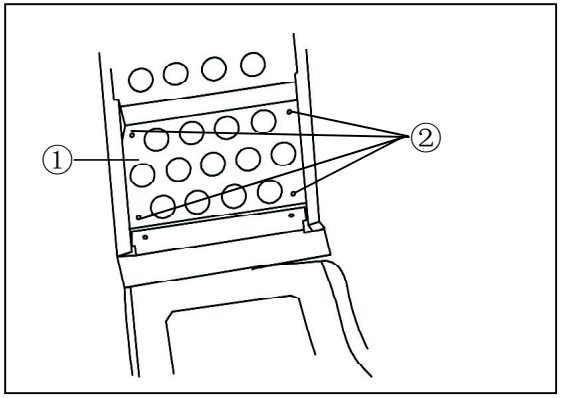
Be sure to no foreign material enters the final gear case.

4. Reinstall the oil fillter bolt, and then tighten it to the specified torque.

Tightening torque: Final gear oil filler bolt: 23 Nm (2.3 m-kgf, 17 ft-lbf)

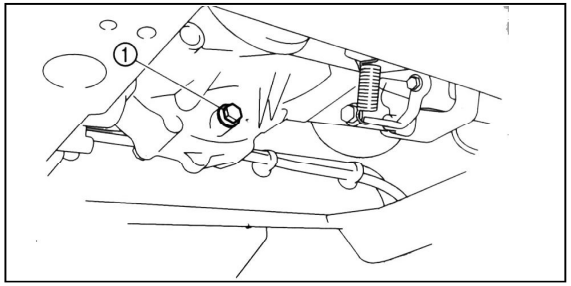
Changing the final gear oil

1. Park the vehicle on a level surface.
2. Remove the final gear case guard by removing the bolts and the collars.



1. Final gear case guard
2. Bolt and collar(x4)

3. Place a container under the final gear case to collect the used oil.
4. Remove the oil filler bolt and the drain bolt to drain the oil



1. Final gear oil drain bolt

5. Reinstall the drain bolt, and then tighten it to the specified torque.

Tightening torque:
Final gear oil drain bolt:
20 Nm (2.0 m-kgf, 14 ft-lbf)

6. Refill with the recommended final gear oil up to the brim of the filler hole.

NOTICE

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

Recommended oil:
SAE 80 API GL-4 Hypoid gear oil
Oil quantity:
0.25 L(0.22 lmp qt, 0.26 US qt)

7. Reinstall the oil filler bolt, and then tighten it to the specified torque.

Tightening torque
Final gear oil filler bolt:
23 Nm (2.3 m-kgf, 17 ft-lbf)

8. Check for oil leakage. If oil leakage is found, check for the cause

9. Install the final gear case guard by installing the bolts and the collars, and then tightening teh bolts to the specified torque.

Tightening torque
Final gear case guard bolt:
7 Nm (0.7 m-kgf, 5.1 ft-lbf)

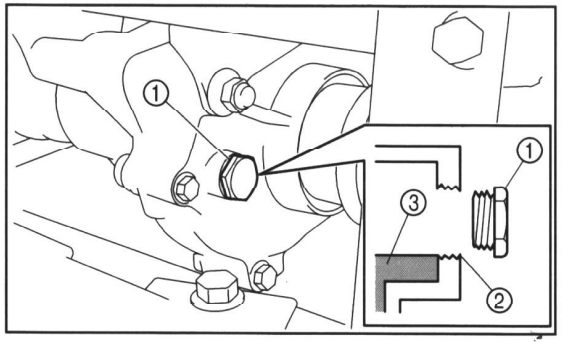
Differential gear oil

Checking the differential gear oil level

1. Park the vehicle on a level surface.
2. Remove the differential gear oil filler bolt and check the oil level. It should be up to the brim of the filler hole. If the level is low, add sufficient oil of the specified level.

NOTICE

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



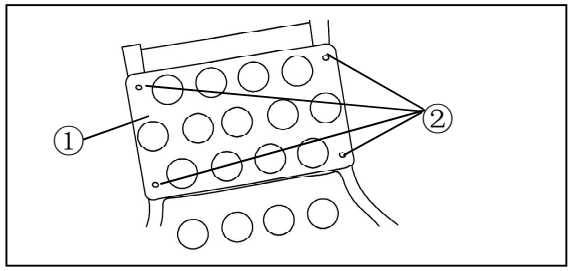
1. Differential gear oil filler bolt
2. Correct oil level 3. Differential gear oil

3. Reinstall tire differential gear oil filler bolt, and then tighten it to the specified torque.

Tightening torque
Differential gear oil filler bolt
23 Nm (2.3 m-kgf, 17 ft-lbf)

Changing the differential gear oil

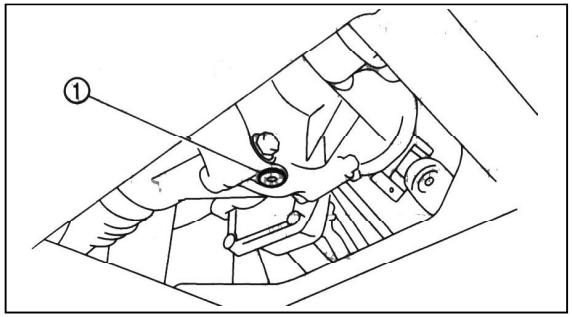
1. Park the vehicle on a level surface.
2. Remove the differential gear case guard by removing the bolts and the collars.



1. Differential gear case gurad
2. Bolt and collar (x7)

3. Place a container under the differential gear case to collect the used oil.

4. Remove the differential gear oil filler bolt and differential gear oil drain bolt to drain the oil.



1. Differential gear oil drain bolt

5. Reinstall the differential gear oil drain bolt, and tighten it to the specified torque.

Tightening torque
Differential gear oil drain bolt
9.8 Nm (0.98 m-kgf, 7.1 ft-lbf)

6. Refill the differential gear case with the recommended oil.

NOTICE

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

Recommended oil:
SAE 80 API GL-4 Hypoid gear oil
Oil quantity:
0.18 L(016 lmp qt, 0.19 US qt)

7. Reinstall teh differential gear oil filler bolt, and then tighten it to the specified torque.

Tightening torque
Differential gear oil filler bolt
23 Nm (2.3 m-kgf, 17 ft-lbf)

8. Check for oil leakage. If oil leakage is found, check for the cause.

9. Install the differential gear case guard by installing the bolts and the collars, and then tightening the bolts to the specified torque

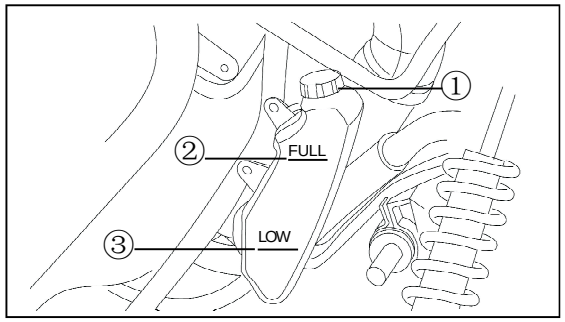
Tightening torque
Differential gear case graud bolt
7 Nm (0.7 m-kgf, 5.1 ft-lbf)

Coolant

The coolant level should be checked before each ride.

Checking the coolant level

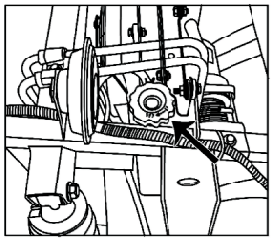
1. Park the vehicle on a level surface.
2. Check the coolant level in the coolant reservoir when the engine is cold as the coolant level varies with engine temperature. The coolant should be between the minimum and maximum level marks.

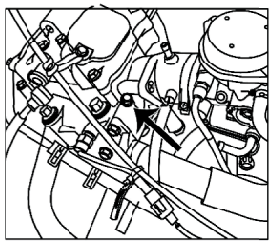


1. Coolant reservoir cap
2. Maximum level mark
3. Minimum level mark

3. If the coolant is at or below the minimum level mark, remove the reservoir cap, add coolant to the maximum level mark, reinstall the reservoir cap.

Coolant reservoir capacity
(up to the maximum level mark):
0.32 L (0.28 lmp qt, 0.34 US qt)





Screw off the water tank cap A and the engine exhaust vent bolt B, put in some antifreeze. Do not screw on the bolt B until antifreeze spill out from the exhaust vent. Start the engine, let it work about 5 minutes with idle speed to exhaust the air out of water tank. If the antifreeze become less while engine working, you can add some more till it reach the highest level of the water tank, then screw on the cap A.

Changing the coolant

The coolant must be changed by a dealer at the intervals specified in the periodic maintenance and lubrication chart.

Adding water instead of coolant lowers the anti-freeze content of the coolant. If water is used instead of coolant, have a dealer check the anti-freeze content of the coolant as soon as possible.

The radiator fan is automatically switched on or off accoring to the coolant temperature in the radiator.

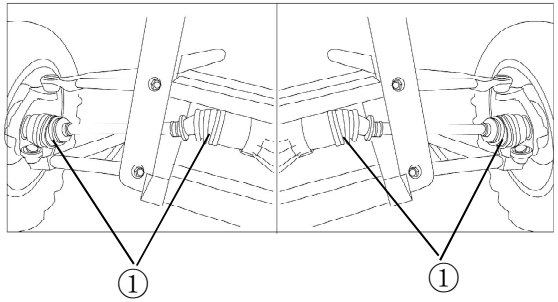
NOTICE

Mix antifreeze with distilled water only. However, if distilled water is not available, soft water may be used for refilling.

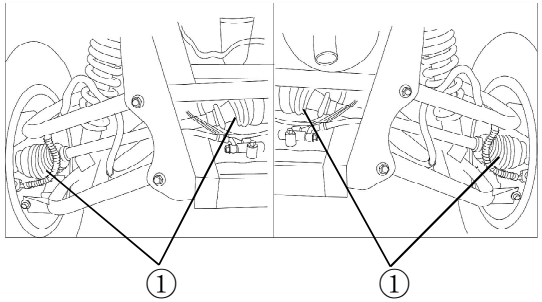
If you vehicle overheats, see page 8-60 for instructions.

Axle boots

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



1. Front axle boot (x2 each side)

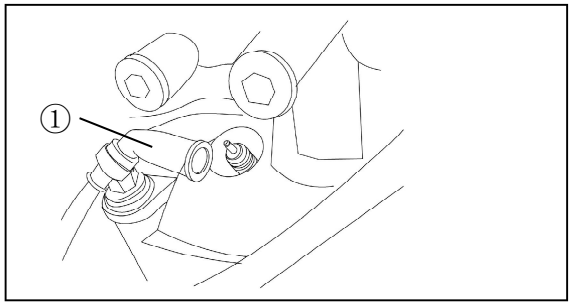


1. Rear axle boot (x2 each side)

Spark plug inspection

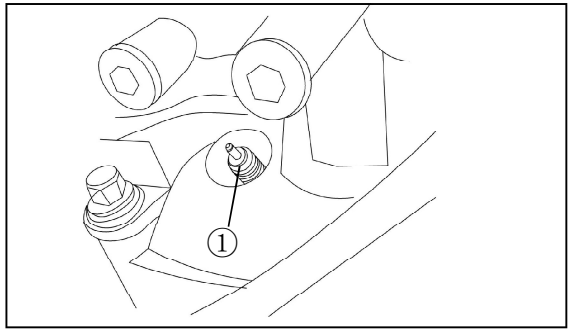
Removal

1. Remove the console. (See page 8-9 for console removal and installation procedures.)
2. Remove the spark plug cap.



1. Spark plug cap

3. Use the spark plug wrench in the tool kit to remove the spark plug as shown.



1. Spark plug Wrench

Inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

The ideal color of the procelain insulator around the center electrode is a medium-to-light tan for a vehicle that is being ridden normally.

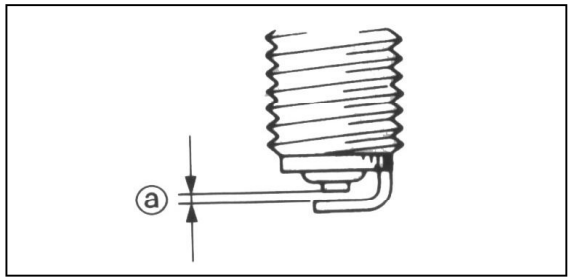
You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break dwon and erode. If carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Specified spark plug:
CPR7EA-9(NGK)

Installation

1. Measure the electrode gap with a wire thickness gauge and, if necessary, adjust the gap to specification.

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



a. Spark plug gap

2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.

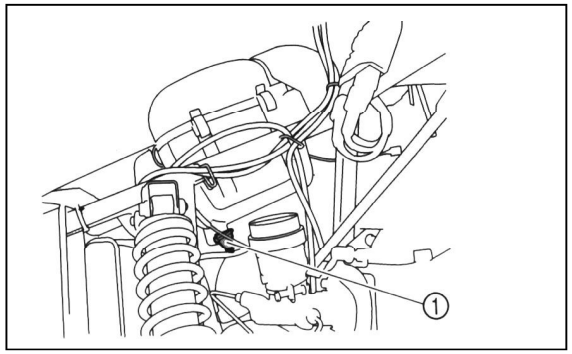
3. Install the spark plug and tighten it to the specified torque. If a torque wrench is not available when you are installing the spark plug, a good estimate of the correct torque is one-quarter to one-half turn past finger tight. Have the spark plug tightened to the specified torque as soon as possible.

Tightening torque
Spark plug:
12.5 Nm (1.25m-kgf, 9.0 ft-lbf)

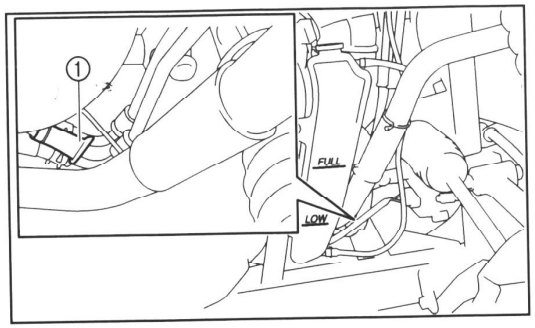
4. Install the spark plug cap.
5. Reinstall the console.

Cleaning the air filter element

There is a check hose at the bottom of the air filter case and at the bottom of the air duct under the case. If dust or water collects in a check hose, empty the hose and clean the air filter element and air filter case.

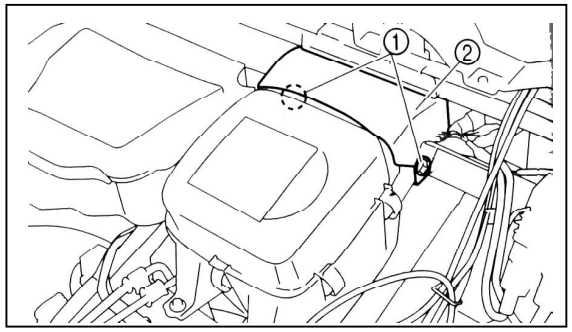


1. Air filter case check hose



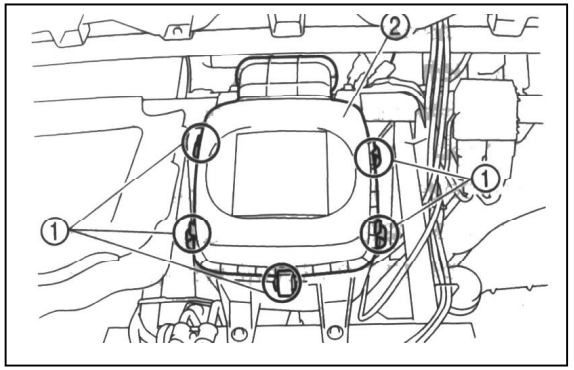
1. Air filter case check hose

1. Open the hood. (See pages 8-7_8-8 for hood opening and closing procedures.)
2. Remove the air intake duct shroud by removing the quick fastener screws.



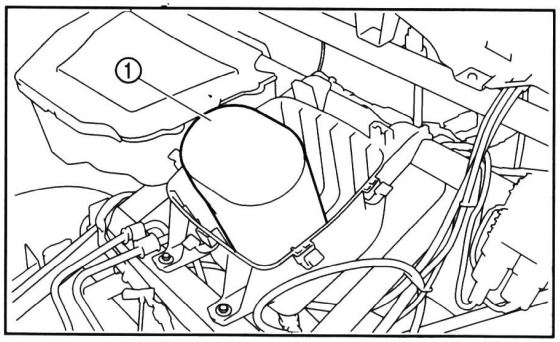
1. Quick fastener screw (x2)
2. Air intake duct shroud

3. Remove the air filter case cover by unhooking the holders.



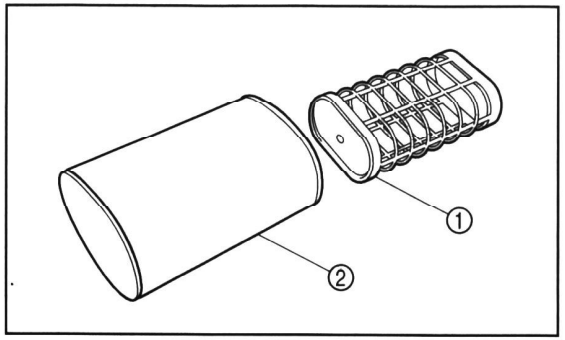
1. Air filter case cover holder(x5)
2. Air filter case cover

4. Remove the air filter element.



1. Air filter element

5. Remove the sponge material from its frame.



1. Air filter frame
2. Sponge material

6. Wash the sponge material gently but thoroughly in parts cleaning solvent.

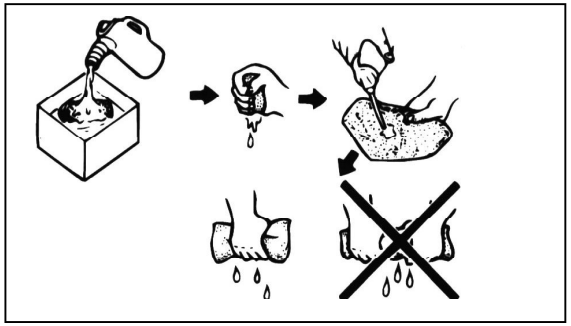
⚠ WARNING

Using gasoline or other flammable solvents to clean the air filter element can cause a fire or explosion, which could lead to serious injury.

7. Squeeze the excess solvent out of the sponge material.

NOTICE

Do not twist the sponge material when squeezing it.



8. Wash the sponge material in warm soapy water to remove remaining solvent, then rinse thoroughly with plain warm water.

9. Squeeze excess water out of the sponge material.

NOTICE

Do not twist the sponge material when squeezing it.

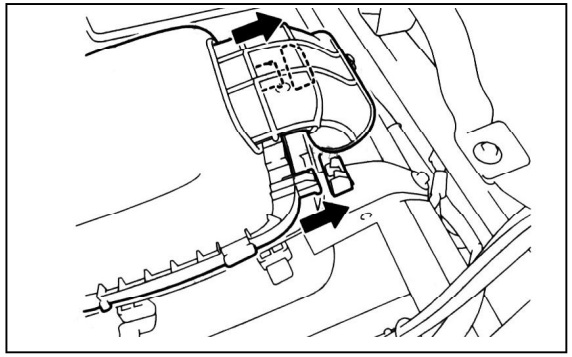
10. Allow the sponge material to dry thoroughly. Inspect the sponge material and replace it if damaged.

11. Thoroughly apply foam air filter oil or other quality liquid foam air filter oil (not spray type) to the sponge be wet but not dripping.

12. Pull the sponge material over its frame.

13. Reinstall the air filter element.

14. Insert the projections on the air filter case cover into the holder on the air filter case, and then install the air filter case cover by hooking the holders onto the cover.



15. Install the air intake duct shroud by installing the quick fastener screws.

16. Close the hood.

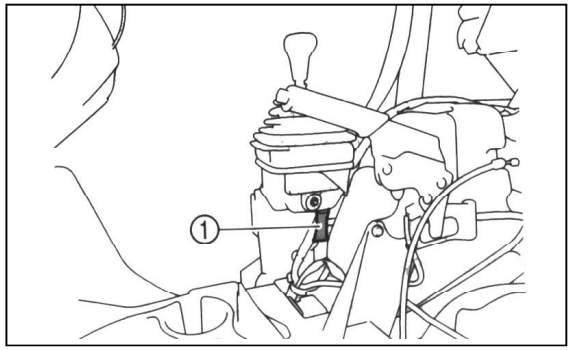
The air filter element should be cleaned every 20-40 hours. It should be cleaned and lubricated more often if the vehicle is operated in extremely dusty areas. Each time air filter element maintenance is performed, check the air inlet to the air filter case for obstructions. Check the air filter element rubber joint to the throttle body and manifold fittings for an air-tight seal. Tighten all fittings securely to avoid the possibility of unfiltered air entering the engine.

NOTICE

Never operate the engine with the air filter element removed. This will allow unfiltered air to enter, causing rapid engine wear and possible engine damage. Additionally, operation without the air filter element will affect the fuel injection system with subsequent poor performance and possible engine overheat.

Drive select lever box check hose

The drive select lever box check hose is located under the console. (See page 8-9 for console removal and installation procedures.) If dust or water collects in the drive select lever box check hose, remove the hose and clean it.



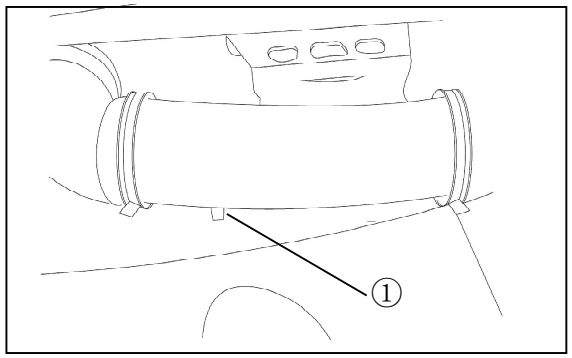
1. Drive select lever box check hose

V-belt case drain plug

The V-belt case drain plug is located under the driver seat. (See pages 4-16_4-17 for seat removal and installation procedures.)

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

If water drains from the V-belt case after removing the drain plug, have a dealer inspect the vehicle, as the water may affect other engine parts.



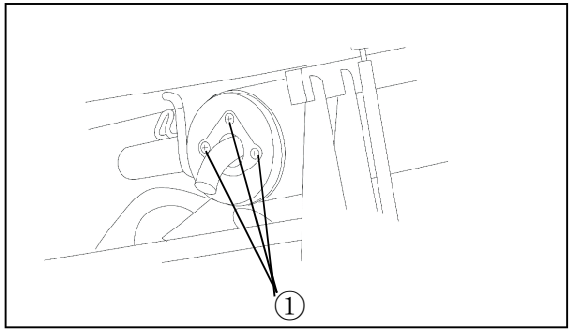
1. V-belt case drain plug

Cleaning the spark arrester

⚠ WARNING

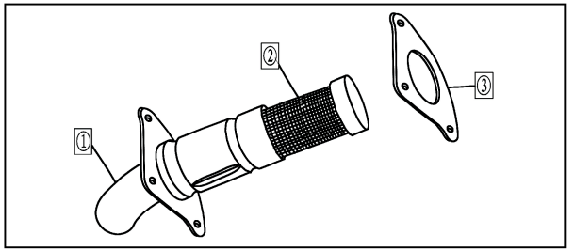
Hot exhaust system may cause burns. To avoid burns or fires, make sure that the engine is stopped and the exhaust system is cool before cleaning spark arrester. Do not start the engine while cleaning the exhaust system.

1. Remove the bolts.



1. Bolt (x3)

2. Remove the tailpipe by pulling it out of the muffler, and then remove the gasket.
3. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe and inside of the tailpipe housing.



1. Tailpipe 2. Spark arrester 3. Gasket

4. Install the gasket, and then insert the tailpipe into the muffler and align the bolt holes.
5. Install the bolts and tighten them to the specified torque.

Tightening torque
Tailpipe bolt:
10 Nm (1.0 m-kgf, 7.2 ft-lbf)

Valve clearance

The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment howerver, should be left to a professional service technician.

Brakes

Replacement of brake components requires professional knowledge. Brake service should be performed by a dealer

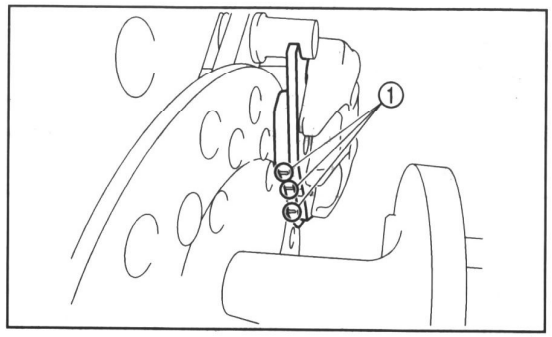
⚠ WARNING

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

Checking the front and rear brake pads

Each brake pad is provided with wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that the wear indicator grooves have almost disppeared, have a dealer replace the brake pads as a set.

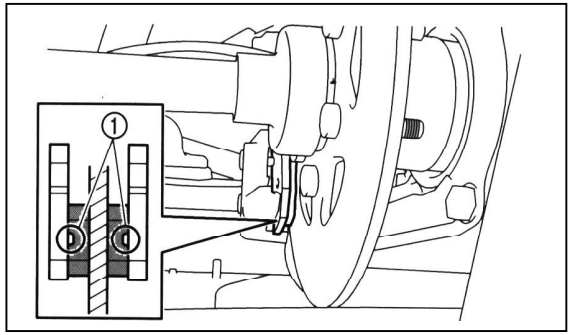
The wheels need to be removed to check the brake pads. (See pages 8-43_8-46 for wheel removal and installation procedures.)



1. Brake pad wear indicator groove

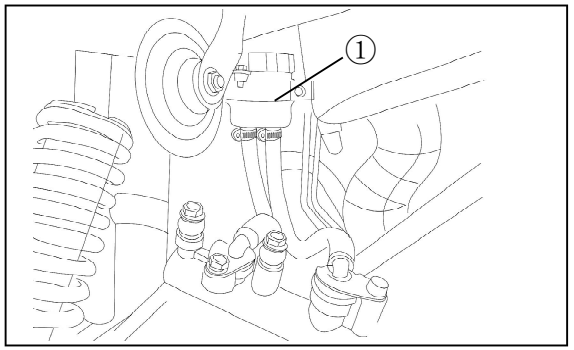
Checking the parking brake pads

Each brake pad is provided with two wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that a wear indicator groove almost appears, have a dealer replace the brake pads as a set.



1. Brake pad wear indicator groove

Checking the brake fluid level



1. Minumum level mark

Insufficient brake fluid may allow air to enter the brake system, possibly causing the brakes to become ineffective.

Before riding, check that the brake fluid is above the minumum level mark and replenish, if necessary. A low brake fluid level may indicate worn brake pads and/or brakd 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. (See pages 8-7_8-8 for hood opening and closing procedures.)

Observe these precautions:

- 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 4

- 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 a dealer inspect the brake system if the brake fluid level goes down.

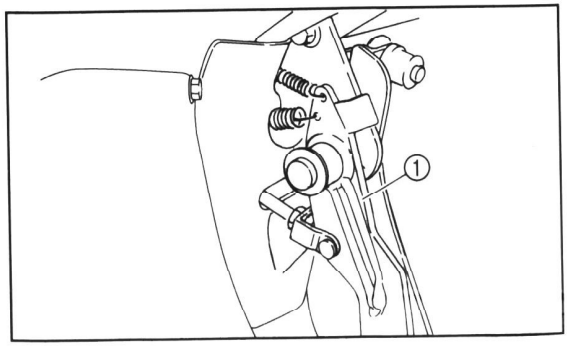
Brake fluid replacement

Complet fluid replacement should be done only by trained service personnel. Have a dealer replace the following components during periodic maintenance or when they are damaged or leaking.

- Replace the oil seals every two years.
- Replace the brake hoses every four years.

Checking the brake pedal

Have a dealer check the brakes at the intervals specified in the periodic maintenance and lubrication chart. There should be no free play in the brake pedal. The brakes should operate smoothly and there should be no brake drag. If the brakes feel soft or spongy, this could indicate air in the brake system. Have a dealer check the brake system if necessary.

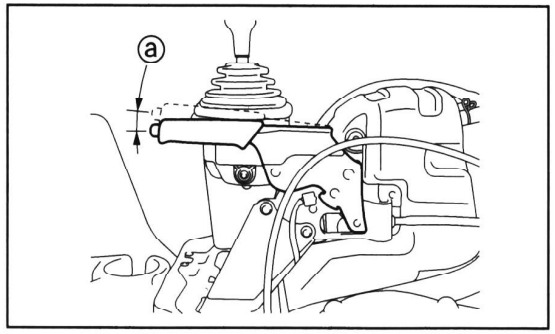


1. Brake pedal

Parking brake lever free play adjustment

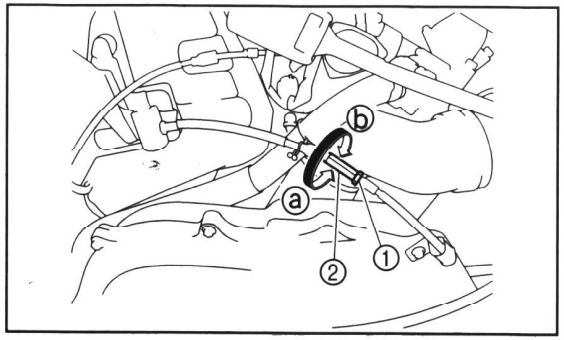
Periodically check the parking brake lever free play and adjust it if necessary.

1. Shift the drive select lever into low gear “L”.
2. Remove the seats. (See pages 4-16_4-17 for seat removal and installation procedures.)
3. Remove the console. (See page 8-9 for console removal and installation procedures.)
4. Check the parking brake lever free play. The maximum free play is equal to one click of the parking brake lever. If necessary, adjust the free play as follows.



a. Parking brake lever free play

5. The parking brake lever must be released when checking and adjusting the parking brake lever free play.
6. Loosen locknut.



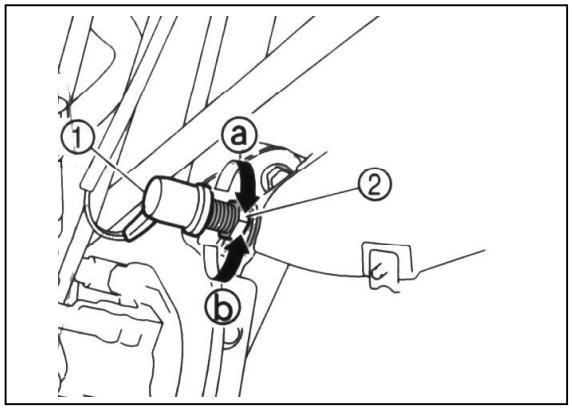
1. Locknut 2. Adjusting nut

7. Turn the adjusting nut in direction ⓐ to increase the free play or in direction ⓑ to decrease the free play.
8. Tighten the locknut.
9. Reinstall the console.
10. Reinstall the seats.

Brake light switch adjustment

The brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

1. Open the hood. (See pages 8-7_8-8 for hood opening and closing procedures.)
2. Turn the adjusting nut while holding the brake light switch in place. To make the brake light come on earlier, turn the adjusting nut in direction ⓐ .To make the brake light come on later, turn the adjusting nut in direction ⓑ .
3. Close the hood.



1. Brake light switch 2. Adjusting nut

Cable inspection and lubrication

⚠ WARNING

Damaged cables could restrict operation, which may cause an accident or injury. Inspect control cables frequently and replace damaged cables. Corrosion can result when the outer covering of control cables becomes damaged. Cables can also become frayed or kinked.

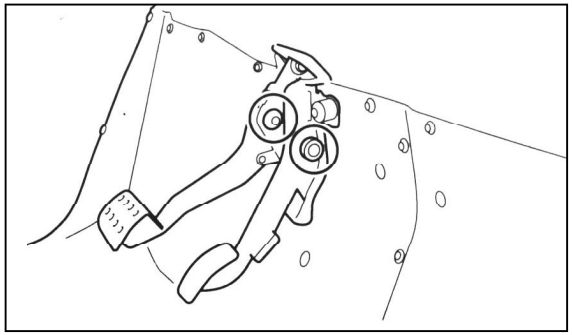
Lubricate the cable ends. If the cables do not operate smoothly, ask a dealer to replace them.

Recommended lubricant:
Lithium-soap-based grease

Brake pedal and accelerator pedal Lubrication

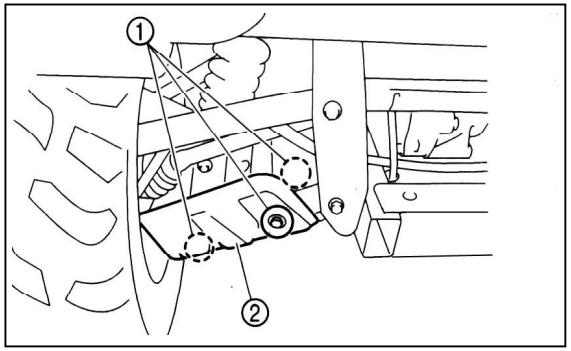
Lubricate the pivoting parts.

Recommended lubricant:
Lithium-soap-based grease



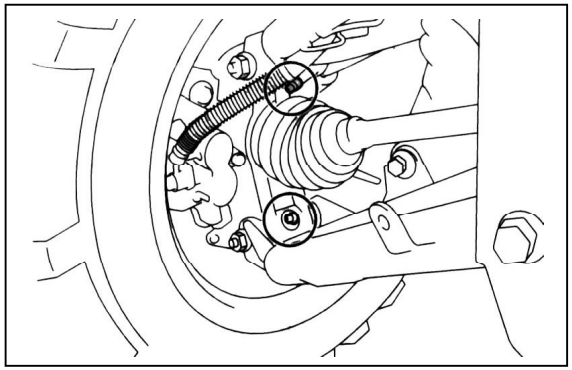
Rear knuckle upper and lower pivot Lubrication

1. Remove the lower arm protector by removing the bolts.



1. Bolt (x3) 2. Lower arm protector

2. Lubricate the knuckle upper and lower piovts with a grease gun



Recommended lubricant:
Lithium-soap-based grease

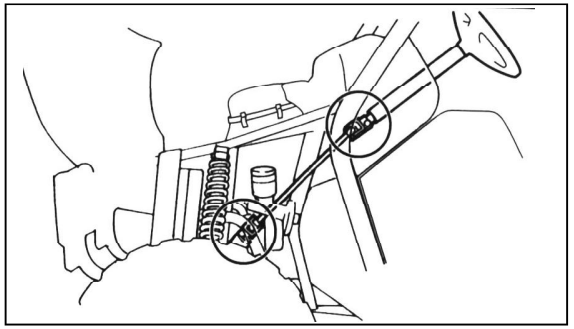
2. Install the lower arm protector by installing the bolts and tightening them to the specified torque

Tightening torque
Lower arm protector:
7 Nm (0.7 m-kgf, 5.1 ft-lbf)

Steering shaft lubrication

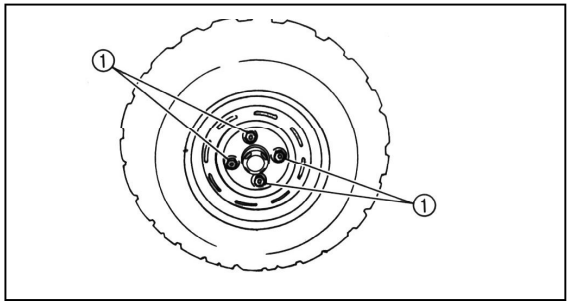
Lubricate the pivot points.

Recommended lubricant:
Lithium-soap-based grease



Wheel removal

1. Loosen the wheel nuts.
2. Elevate the vehicle and place a suitable stand under the frame.
3. Remove the nuts from the wheel
4. Remove the wheel



1. Nut (x4)

Tire replacement

Always use the same size and type of tires recommended in this owner's manual. The tires that came with your YXQUAD X were designed to match the performance capabilities and to provide the best combination of handing, braking, and comfort. It is best to replace all four tires at the same time. If that is not possible, you must replace the tires in pairs (front or rear) with tires of the same size and type as the original. Never replace just one tire.

⚠ WARNING

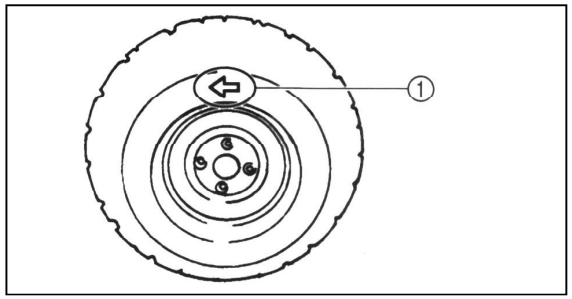
Installing improper tires on your YXQUAD X can affect handling and stability. This can cause a loss of control.

Wheel installation

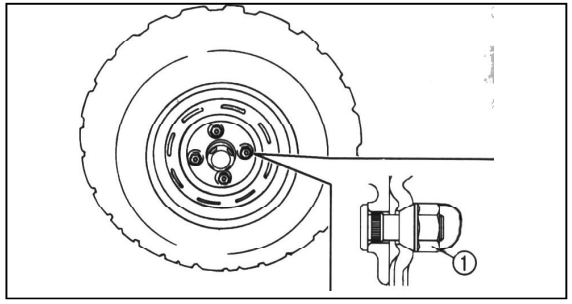
1. install the wheel and the nuts.
   - The arrow mark on the tire must point toward the rotating direction of the wheel.
   - Tapered nuts are used for both the front and rear wheels. Install the nuts with their tapered side towards the wheel.
2. Lower the vehicle so that the wheel is on the ground.
3. Tighten the wheel nuts to the specified torque.

⚠ WARNING

Do not reverse the rims on the YXQUAD X to widen the track width. Installing wheels improperly increases the risk of wheel failure and accidents.



1. Arrow mark



1. Tappered nut

Wheel nut torque:
Front: 70 N.m (7.0 m.kgf, 52 ft.lbf)
Rear: 70 N.m (7.0 m.kgf, 52 ft.lbf)

Battery

This vehcicle is equipped with a sealed-type battery. Therefore it is not necessary to check the electrolyte or add distilled water in the battery.

If the battery seems to have discharged, consult a dealer

NOTICE

Do not try to remove the sealing caps of the battery cells. You may damage the battery.

⚠ WARNING

Avoid battery contact with skin, eyes, or clothing. Shield eyes when working near batteries. Keep out of reach of children. You could be poisoned or severely burned by the sulfuric acid in battery electrolyte. In case of accidental contact with battery electrolyte:
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 medial attention.

⚠ WARNING

Batteries may produce explosive gases. Ventilate when charging or using in a closed space. Keep batteries away from sparks, flames, cigarettes, or other sources of ignition.

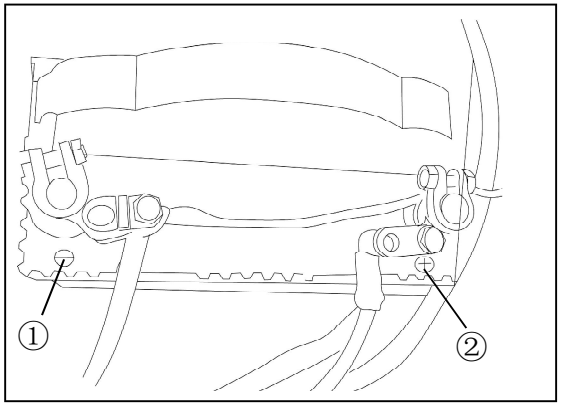
Battery maintenance

1. If the vehicle will not be used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.

NOTICE

A special battery charge (constant voltage/ampere or constant voltage) is required for recharging a sealed-type battery. Using a conventional battery charger may shorten the battery lift.

2. Always make sure the connections are correct when putting the battery back in the vehicle.



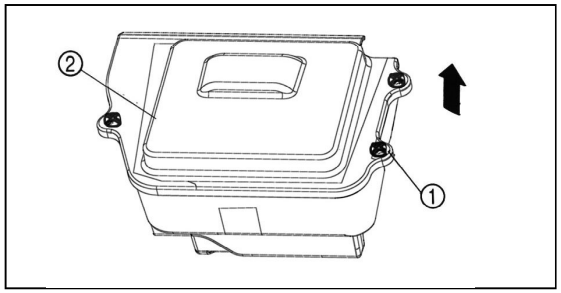
1. Negative battery lead (black)
2. Positive battery lead(red)

Fuse replacement

The main fuse, the fuel injection system fuse, and the fuse box are located under the hood. (See pages 8-7_8-8 for hood opening and closing procedures.)

If a fuse is blown, turn off the main switch and install a new fuse of the specified amperage. If a fuse is blown, replace it as follows.

1. Remove the quick fastener screws.
2. Remove the battery compartment cover by lifting it up and pulling it out



1. Quick fastener screw(x3)
2. Battery compartment cover

Turn the key to “OFF” and turn off the electrical circuit in question.

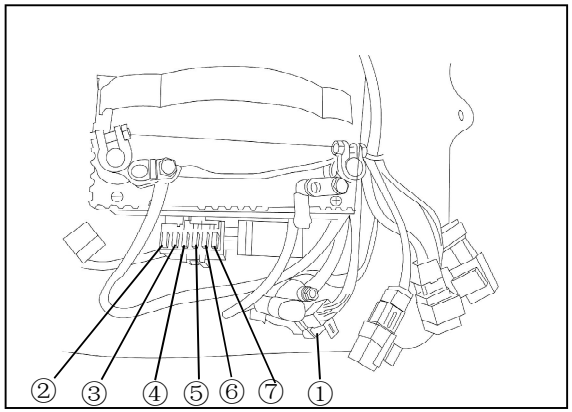
NOTICE

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

3. Remove the blown fuse, and then install a new fuse of the specified amperage.

⚠ WARNING

Always use a fuse of the specified amperage. Never use any material in place of the proper fuse. Using an improper fuse can cause damage to the electrical system and may lead to a fire.



1. Main fuse
2. Headlight,high/low beam light,taillight fuse
3. Ignition,meter(on) fuse
4. CD(on),fan fuse
5. Two-wheel-drive motor fuse
6. Left/Right turning light, horn fuse
7. CD, meter fuse (off)

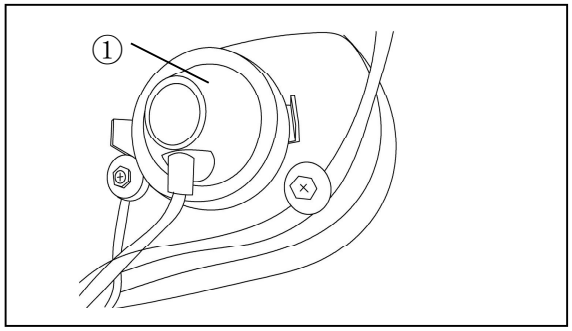
Specified fuses:	
Main fuse:	40.0 A
Fuel injection system fuse:	10.0 A
Headlight fuse:	15.0 A
Ignition fuse:	10.0 A
Auxiliary DC jack fuse:	10.0 A
Signaling system fuse:	10.0 A
Four-wheel-drive motor fuse:	10.0 A
Radiator fan fuse	25.0 A
Backup fuse:	10.0 A

4. Trun the key to “ON” and turn on the electrical circuit in question to check if the device operates.
5. If the fuse blows again immediately, have a dealer check the electrical system.
6. Reinstall the battery compartment cover by installing the quick fastener screws.
7. Close the hood.

Replacing a headlight bulb

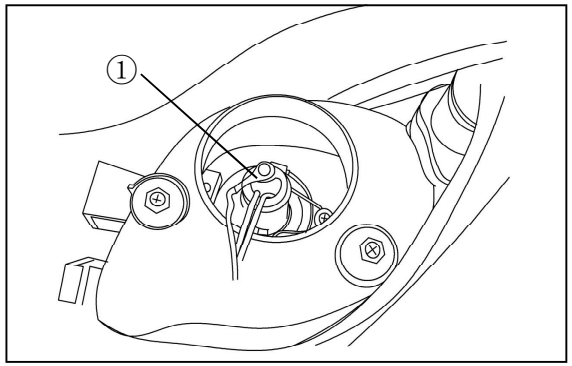
If a headlight bulb burns out, replace it as follows.

1. Lift the hood up. (See pages 8-7_8-8 for hood opening and closing procedures)
2. Remove the cover at the rear of the headlight by pulling it off.



1. Cover at the rear of the headlight

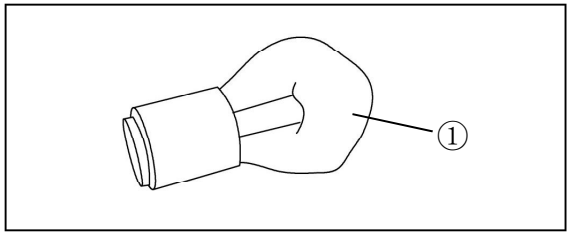
3. Remove the headlight bulb holder by pulling it in and turning it counterclockwise



1. Headlight bulb holder

4. Wait for the headlight bulb to cool before touching or removing it. Remove the bulb by pulling it out.

6. Insert a new headlight bulb into the bulb holder by pushing it in.



1. Do not touch the glass of the bulb

7. Reinstall the bulb holder by pushing it in and turning it clockwise.

Reinstall the bulb holder cover and the cover at the rear of the headlight.

NOTICE

Make sure the headlight bulb holder cover is securely fitted over the bulb holder and seated properly.

8. Close the hood.

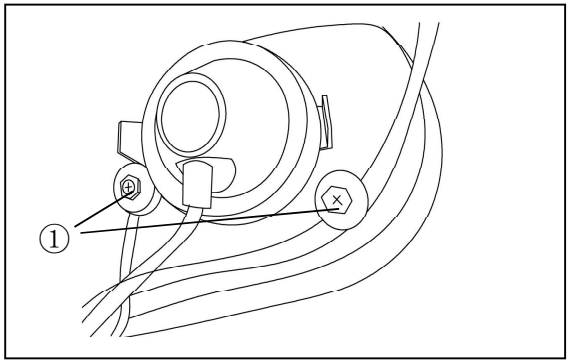
9. Adjust the headlight beam if necessary.

Headlight beam adjustment

NOTICE

It is advisable to have a dealer make this adjustment.

To raise the beam or to lower the beam, turn the adjusting screw.

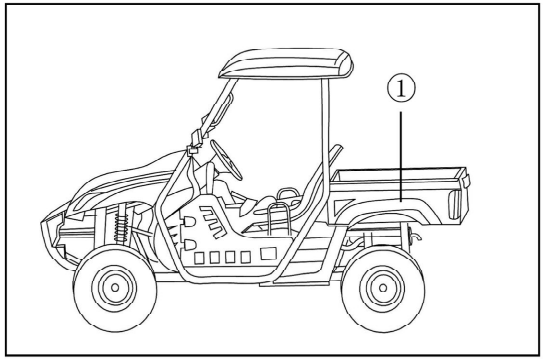


1. Headlight beam adjusting screw

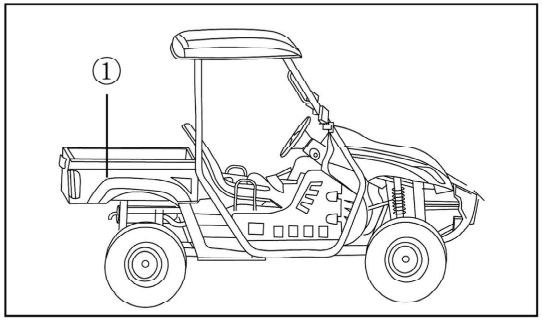
Tail/brake light bulb replacement

If a tail/brake light bulb burn out, replace it as follows:

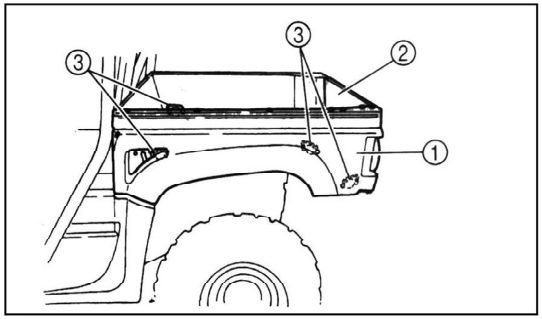
1. Remove the quick fastener screws and bolts from panel A (if replacing the left tail/brake light bulb) or panel B (if replacing the right tial/brake light bulb).



1. Panel A

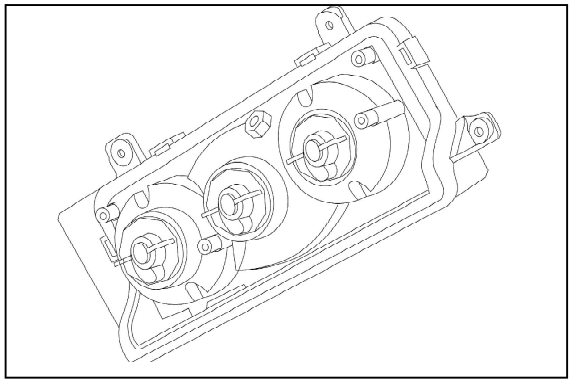


1. Panel B



1. Quick fastener screw (x8)
2. Bolt (x2)
3. Panel A

2. Lift the cargo bed up. (See pages 4-20_4-21 for cargo bed lifting and lowering procedures.)
3. Remove the panel (panel A or B)
4. Remove the bulb holder (together with the bulb) by turning it counterclockwise.



5. Push the defective bulb in and turn if counter-clockwise to remove it from the bulb holder.
6. Push a new bulb in and turn it clockwise to install in the bulb holder.
7. Reinstall the bulb holder (together with the bulb) by turning it clockwise.
8. Install the panel.
9. Lower the cargo bed.
10. Reinstall the quick fastener screws and bolts, and then tighten the bolts to the specified torque.

Tightening torque
Panel bolt:
7 Nm (0.7 m-kgf, 5.1 ft-lbf)

Troubleshooting

Although vehicles receive an inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks. If your vehicle requires any repair, take it to a dealer.

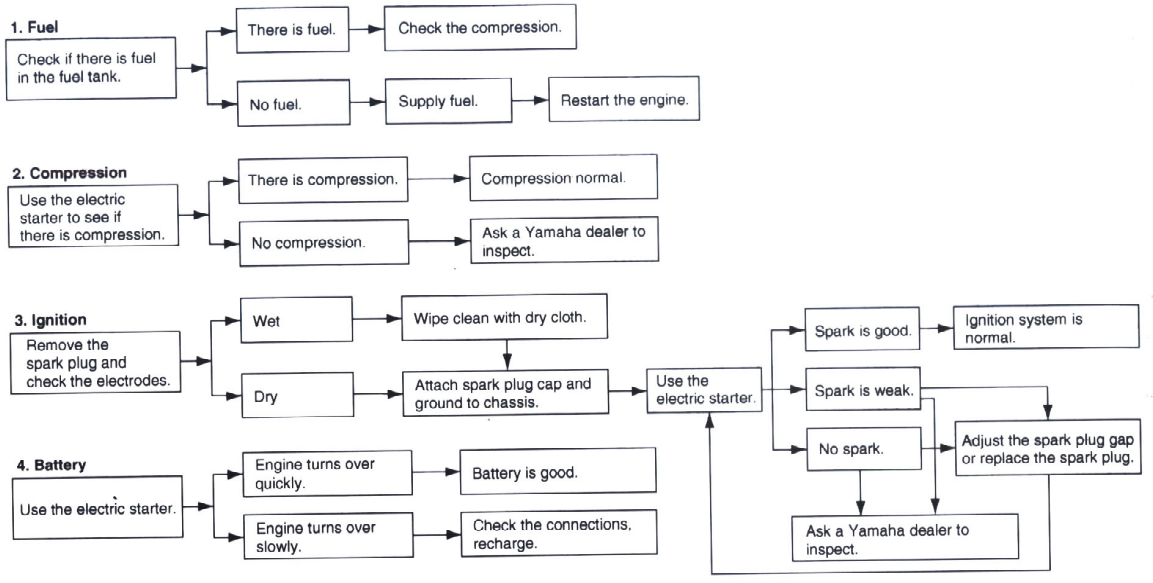
The skilled technicians at a dealer ship have the tools, experience, and know how to properly service your vehicle. Use only genuine parts on your vehicle. Imitation parts, but they are often inferior. Consequently, they have a shorter service lift and lead to expensive repair bills.

⚠ WARNING

When checking the fuel system, do not smoke and make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces. Gasoline or gasoline vapors can ignite or explode, causing severe injury or property damage.

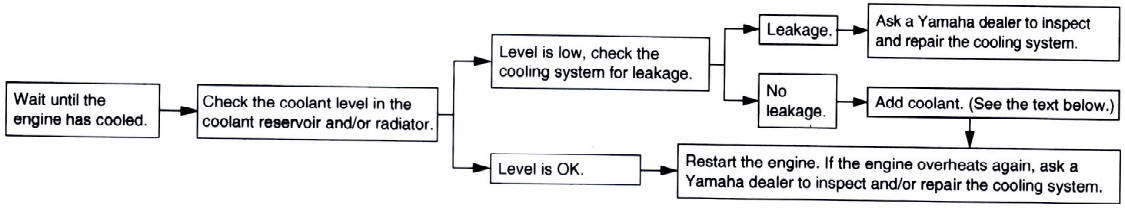
Troubleshooting charts

Starting problems or poor engine performance



Engine overheating

Wait for the engine to cool before removing the radiator cap. If the engine is not cool when removing the radiator cap, hot fluid and steam could blow out under pressure and burn you. Place a thick rag over the cap and remove the cap slowly to allow any remaining pressure to escape.



If it is difficult to get the recommended coolant, tap water can be used temporarily, provided that it is changed to the recommended coolant as soon as possible.

CLEANING AND STORAGE

A. Cleaning

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

1. Before cleaning the vehicle:
   a. Block off the end of teh exhause pipe to to prevent water entry. A plastic bag and strong rubber band may be used.
   b. Make sure the spark plug and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the wheel axles.
3. Rinse the dirt and degrease off with a garden hose. Use only enough pressure to do the job.

⚠ WARNING

Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the linings. Wet brakes may have reduced stopping ability, increasing the chance of an accident.

NOTICE

Excessive water pressure may cause water seepage and deterioratoin of wheel bearings, brakes, transmission seals and electrical devices. Many expensive repair bills have resulted from improper high-pressure detergent applications. high-pressure detergent applications, such as those available in coin-operated car washers.

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the vehicle off immediately with clean water and dry all surfaces with a clean chamois towel or shoft, absorbent cloth.
6. Clean the seats with a vinyl upholstery cleaner to keep the covers pliable and glossy.
7. Automotive-type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may scratch the paint or protective finish. When finished, start the engine and let it idle for several minutes.

B. Storage

Long term storage (60 days or more) of your vehicle will require some preventive procedures to guard against deterioration. Make any necessary repairs before store the vehicle.
After thoroughly cleaning the vehicle, prepare for storage as follows:

1. Fill the fuel tank with fresh fuel. Operate the vehicle for at least 5 minutes to distribute treated fuel through the fuel system.

Specified amount:
1 oz of stabilizer to each gallon of fuel
(or 7.5 ml of stabilizer to each liter of fuel)

2. Remove the spark plug, pour about one tablespoon of SAE 10W-40 or 20W-50 motor oil in the spark plug hole and reinstall the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder wall with oil.

3. Lubricate all control cables.

4. Block up the frame to raise all wheels off the ground.

5. Tie a plastic bag over the exhaust pipe outlet to prevent moisture form entering.

6. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat covers.

7. Remove the battery and charge it. Store it in a dry place and recharge if once a month. Do not store the battery in an excessively warm or cold place [less than 0°c (30 °F) or more than 30 °c (90 °F)].

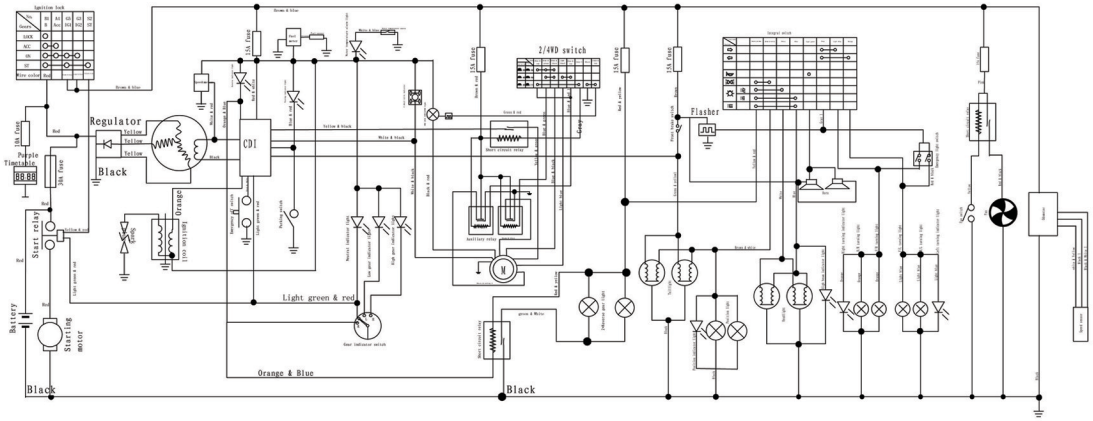
Use of fuel stabilizer and conditioner eliminates the need to drain the fuel system. Consult a dealer if the fuel system needs to be drained.

SPECIFICATIONS

ENGINE	
Type	493cc,1-cylinder,4 stroke,4 valve,SOHC,water/oil cooled
Bore x Stroke	87.5mmx82mm
Compression Ratio	10.3:1
Rated power	25kw/6000rpm
Rated.torque	45Nm/5000rpm
Carburetion	BSR36
Ignition	CDI
Starting	Electric starter
Transmission	L-H-N-R
Drive Train	Shaft drive
CHASSIS	
Suspension/Front	Independent double swing arm
Suspension/Rear	Independent double swing arm
Brakes/Front	Dual ventilated hydraulic disc
Brakes/Rear	Dual ventilated hydraulic disc
Tires/Front	AT25 x 8-12 radial
Tires/Rear	AT25 x 10-12 radial

DIMENSIONS	
L x W x H	3025mmx1570mmx1900mm
Seat Height	830mm
Wheelbase	1920mm
Ground Clearance	290mm
Fuel Capatity	29.5L
Gross Weight	645Kg
Dry Weight	620Kg
Loading Quantity	14 units/1 × 40HQ，3units/1 × 20GP
OTHER	
Lighting	12V 35W/35W × 2,12V 5W × 2,12V 10W × 2(front); 12V 5W/21W × 2,12V 10W × 2,12V 10W × 2(rear); 12V 5W × 1

ELECTRICAL CIRCUIT DIAGRAM



Emission Control System Warranty

Your new YX Motors vehicle complies with the U.S. EPA, and State of California emission regulations (models certified for sale in California only). YX Motors (USA) Inc. provides the emission warranty coverage for engines in the United States and its territories. In the remainder of this Emission Control System Warranty, YX Motors (USA) Inc. will be referred to as YX Motors

YOUR WARRANTY RIGHTS AND OBLIGATIONS

U.S. EPA and YX Motor are pleased to explain the emission control system warranty on your 2011 UTV. New motor vehicles must be designed, built and equipped to meet State's stringent anti-smog standards. YX Motor must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your motorcycle.

Your emission control system may include parts such as the carburetor or fuel injection system, the ignition system, catalytic converter and engine computer, if it is equipped. Also included may be hoses,belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, YX Motor will repair your motorcycle at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 2011 and later model year UTV are warranted for 5,000 km or for 5 years, whichever comes first.If any emission-related part on your vehicle is defective, the part will be repaired or replaced by YX Motor. This is your emission control system DEFECTS WARRANTY.

OWNER'S WARRANTY RESPONSIBILITIES

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

You are responsible for presenting your vehicle to the YX Motors' dealer as soon as a problem exists.The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.As the vehicle owner, you should be aware that YX Motors may deny your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you use your vehicle in any type of competitive event, this warranty is immediately and completely void.

If you have any questions regarding your warranty rights and responsibilities, you should contact the following office.

YX Motors(USA)Inc.

6030 Arboretum Drive

Friscon,Texas 75034-7270 U.S.A

Tel:(214) 6878685

ITY

U.S. Environmental Protection Agency
OTAQ,CISD,
2000 Traverwood Drive
Ann Arbor, MI 48105

YX Motors warrants that each new 2011 and later YX Motors vehicles:

A. is designed, built and equipped so as to conform at the time of initial retail purchase with all

B. applicable regulations of the United States Environnmental Protection Agency, and the California Air Resources Board; and is free from defects in material and workmanship which cause such vehicle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for the periods specified above.

The emission control system warranty period for this vehicle begins on the date the vehicle is delivered to the first purchaser other than an authorized dealer, or the date it is first used as a demonstrator, lease, or company vehicle, whichever comes first and continues for the period of time listed above. This warranty is transferable to each subsequent purchaser for the duration of the warranty period.

Warranty repairs will be made without charge for diagnosis, parts, or labor. All defective parts replaced under this warranty become the property of YX Motor. A list of warranted parts is included in this warranty statement. Normal maintenance items, such as spark plugs and filters, that are on the
warranted parts list are warranted up to their required replacement interval only.

Only YX Motors approved replacement parts may be used in the performance of any warranty repairs and must be provided without charge to the owner. The use of replacement parts not equivalent to the original parts may impair the effectiveness of your engine emission control system.If such a replacement part is used in the repair or maintenance of your engine, and an authorized YX Motors dealer determines it is defective or causes a failure of a warranted part, your claim for repair of your engine may be denied. If the part in question is not related to the reason your engine requires repair, your claim will not be denied.

TO OBTAIN WARRANTY SERVICE

You must take your YX Motors Vehicle, along with your sales receipt or other proof of original purchase date, at your expense, to any YX Motors dealer who is authorized by YX Motors to sell and service that YX Motors product during his normal business hours. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the vehicle was not properly maintained and used.

Repair or replacement of any warranted part is performed at no charge at a warranty station, except in an emergency situation. An emergency occurs when a warranted part or a warranty station is not reasonably available to the owner. In an emergency, repairs may be performed at any available
service establishment, or by any individual, using any replacement part. The manufacturer will reimburse the owner for the expenses, including diagnostic charges, not to exceed the manufacturer's suggested retail price for all warranted parts replaced and labor charges based on the manufacturer's recommended time allowance for the warranty repair and the geographically appropriate hourly labor
rate. The owner may reasonably be required to keep receipts and failed parts in order to receive compensation. A part not available within 30 days, or a repair not complete within 30 days also constitutes an emergency.

If you are unable to obtain warranty service, or are dissatisfied with the warranty service you received,
contact the owner of the dealership involved. Normally this should resolve your problem. However, if you require further assistance, write or call the YX Motor Inc. Customer Service Department.

EXCLUSIONS AND LIMITATIONS

This Emission Control System Warranty shall not cover any of the following:

A. Repair or replacement as a result of

(1) accident, (2) misuse,

(3) repairs improperly performed or replacements improperly installed,
(4) use of replacement parts or accessories not conforming to YX Motors' specifications which adversely affect performance and/or
(5) use in competitive racing or related events.
B. Inspections, replacement of parts and other services and adjustments required for required maintenance.
C. Any vehicle equipped with an odometer or hour meter on which the odometer mileage or hour meter reading has been changed so that actual mileage cannot be readily determined.

LIMITED LIABILITY

A. The liability of YX Motors under this emission control system warranty is limited solely to the remedying of defects in material or workmanship by an authorized YX Motors dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the vehicle or transportation of the vehicle to or from the YX Motors dealer. YX Motors shall not be liable for any other expenses, loss or damage, whether direct, incidental,consequential or exemplary arising in connection with the sale or use of or inability to use the vehicle for any purpose. Some states do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitations may not apply to you.
B. No express emission control system warranty is given by us except as specifically set forth herein.Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the express emission control system warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in line of all other remedies. Some states do not allow limitations on how long an implied warranty lasts so the above limitations may not apply to you.
C. No dealer is authorized to modify this YX Motors Limited Emission Control System Wart

SYSTEMS COVERED BY THIS WARRANTY:	PARTS DESCRIPTION:
Fuel Metering	Carburetor assembly (includes starting enrichment system)
Evaporative	Fuel tank, Fuel cap, Fuel hoses, Fuel hose joint,
Air Induction	Air filter housing, Air filter element*, Air injection valve
Ignition	Ignition coil assembly, Ignition control module, Spark plug cap, Spark plug*
Crankcase Emission Control	Crankcase breather tube
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.