
VEHICLE INFORMATION

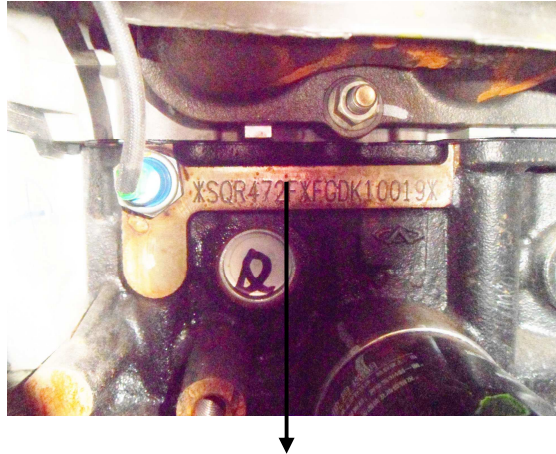
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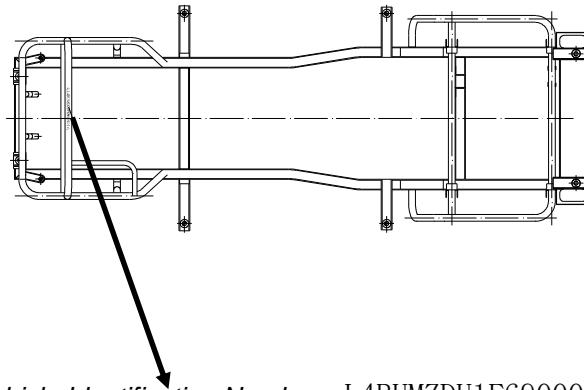
HOW TO IDENTIFY YOUR XYUTV1000

The main components of your vehicle (engine and frame) are identified by different serial numbers. It may sometimes become necessary to locate these numbers for warranty purposes or to trace your vehicle in the event of loss. These numbers are required by the authorized Discovery UTV dealer to complete warranty claims properly. No warranty will be allowed by Discovery UTV, if the engine identification number (EIN) or vehicle identification number (VIN) is removed or mutilated in any way. We strongly recommend that you take note of all the serial numbers on your vehicle and supply them to your insurance company.

Engine and Vehicle Identification Number Location



Engine Identification Number



Vehicle Identification Number: L4BUMZDU1F6900001

CONTROLS/INSTRUMENTS/EQUIPMENTS

While reading this *Operator's Guide*, remember that:

WARNING

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

NOTE: This section gives basic functions of the various controls of your XYUTV1000. For more details of how to operate one control in conjunction with some others, refer to OPERATING INSTRUCTIONS further in this section.”

1) parking brake lever(foot parking pedal)



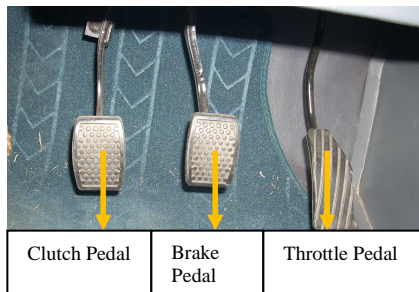
2WD:
Parking brake lever



4WD:
Parking brake lever

See picture, when the vehicle is fully stopped, press the parking brake handle to a certain position, it would park the car; release the pedal, press it again will release the parking.

2) Clutch Pedal, Brake Pedal, Throttle Pedal



Clutch Pedal	Brake Pedal	Throttle Pedal
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Make sure the gear is in neutral, gently press the throttle pedal by

right foot, turn the key on and start the engine.

When the engine started, press the clutch pedal by left foot and then shift gear to the 1st position, release the clutch slowly, press the throttle pedal gently, then the car will start to run.

Leaving the left foot from the clutch pedal, when press the throttle by right foot harder, it will speedup the engine to make the car go faster.

When released, the engine speed should return automatically to idle and the vehicle will gradually slow down. Brake pedal located as picture.

When the brake pedal is compressed, the front and rear brakes are applied. When released, the brake lever should automatically return to its original position. Braking effect is proportional to the force applied on the lever and to the type and condition of the terrain.

NOTE: As on other wheeled vehicles, the vehicle weight is transferred to the front wheels when braking. To obtain greater stopping efficiency, the brake system distributes more braking force to the front wheels. This will affect vehicle handling and steering control when braking vigorously. Take it into account when braking. When you ride the vehicle, brakes that are caused to drag by a continuous pressure on the lever may cause damage to the brake system and cause loss of braking capacity and/or fire.

3) Transmission Lever

Located between two seats. A 6-

position lever: 1, 2, 3, 4,5 and R.



2WD (5position lever)
4WD (6position lever)

When started the vehicle, put the gear in neutral, when the engine started, press clutch pedal by left foot, then move transmission lever into desired position, Do not force lever. The gear has 1,2,3,4 ,5and R, Gear1 is for starting, 2,3,4,5 is for running, shift gears according to the vehicle speed requirements.

R: Reverse

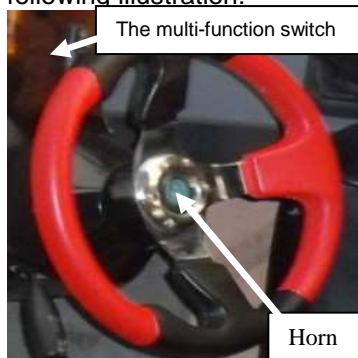
This allows the vehicle to go backward.

The reverse speed is limited.

Before moving vehicle in reverse, ensure the path behind is clear of obstacles or bystanders.

4) Multi-Function Switch

The multi-function switch is located under the steering wheel as the following illustration:



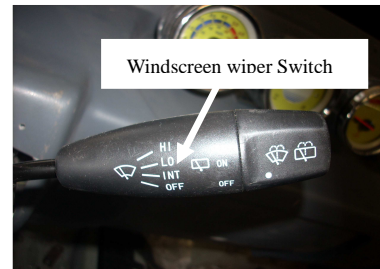
The functions located on this multifunction switch are:
High/low beams of Headlamp Switch, Turning Lamp, Overtake Lamp and windscreen wiper.

High /low beams of headlamp



When the Headlamp Switch is "ON",you can change High /low beams of headlamp. Make Turning signal or Overtake signal.

When it is dark, or raining/flog/bad visibility, you can use this switch to remind others your position.





Tail Lamp

Front Switch



Front turning Lamp



Rear turning Lamp

3 level of the windscreen wiper, adjust the different frequency of the windscreen wiper

HI LO INT IS High Low Intermission

OFF is off of windscreen wiper.

Press the horn will make the sound. it will return automatically when released.

Indicator Assembly
Located as following illustration:

Lamp Indicator



RPM

Speedometer

MP3 operation board



Engine stop Switch

Emergency alarm Switch

Press this button can stop engine in emergency.

NOTE: While engine can be stopped by turning ignition key OFF, we recommend the engine be stopped by the engine stop switch.

Always turn ignition to OFF after engine has been stopped; otherwise you can not start engine again.

Ignition Switch

Insert key in switch and turn to the right to start engine. After engine works, key should be automatically "ON" position.

To stop engine, turn to the right from "ON" position.

CAUTION: Never start engine for long time otherwise it would be damaged.

Emergency Alarm Switch

Located as above mentioned
1 XYUTV1000 break down.
2 The weather is bad such like raining and fog etc, you should open EAS, then turning light are flashing to remind others for your emergency.

Front lamp Switch

This button can control the front lamp, use it in the dark.

Position light Switch

Using as Position Lamp on and off.

Mp3 operation board

Using as the control for power of MP3 player, speed of the playing and selections.

Speedometer

It is digital speedometer as the illustration showing



It is speedometer to show speed in Mile per hour or KM per hour. When engine starts, it would

show the figure. And background light is working.

It is with an Odometer in KM, and there is also a fuel indicator to show fuel level, reminding the driver to fill up the fuel in time.

Lamp Indicator

It is as the illustration showing:



(1) Oil Pressure (RED)

When the ignition switch is on IGN1 position, it is light when engine doesn't start. And it will be off after the engine works. When this indicator light is on, it indicates a low oil pressure condition of the engine.

CAUTION: If the light does not turn off after engine starting, stop the engine. Check engine oil level. Refill if necessary. If the oil level is good, see an authorized Discovery UTV dealer. Do not use the vehicle until repaired.

(2) Engine Charge (RED)

If it is lights when engine starts, it indicates the engine is not charging

(3) Reverse (RED)

When it lights, it indicates the transmission is in reverse position.


(4) 4WD (GREEN) (only 4WD)


When it all lights, it indicates the

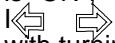
vehicle is in 4WD status, when only the lower two wheel signal lights, it means in 2WD status

(5) LEFT/RIGHT Turning


Indicator  (GREEN)

Turn on left turning lights,  is flashing together with front and rear left turning lights to remind you that you can turn to the left.

Turn on right turning lights,  is flashing together with front and rear right turning lights to remind you that you can turn to the right.

When emergency alarm switch is "ON"  are flashing together with turning lights to remind you that you are in emergency case.

(6) High Beam Indicator (GREEN)

When switch is "HI",  is in light to remind you that it is in high beam.

CAUTION: Never use HBI during normal operation.

■ 2WD/4WD switch (only 4WD)
2WD/4WD is controlled by impulse motor. When the drive shaft spline is not joggled in the splinehousing, the impulse motor will keep on making signal to make the motor work, till the drive shaft spline is joggled in the splinehousing to finish the 2WD/4WD switch. If the motor works more than 24 times within one minute but the drive shaft spline is still not joggled in the splinehousing it will alarm, in

that case you should operate it in the opposite way to protect the motor in order to avoid overheat for the motor to get burnt.

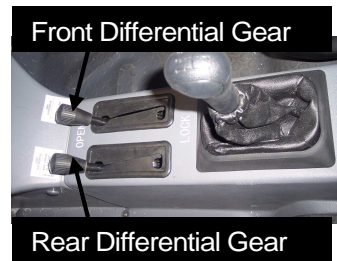


2WD/4WD switch

Note: when the switch can not be realized successfully, it will alarm, and you should operate it in the opposite way to protect the motor in order to avoid overheat for the motor to get burnt.

■ Front and rear differential lock shift (only 4WD)

Lever forward means differential unlocked, backward means locked; left to control front and right for rear



Front Differential Gear

Rear Differential Gear

WARNING

When Turning Do Not Lock, The Front Differential Gear

Fuel Tank Cap

Located as the illustration showing:



Unscrew counterclockwise and remove cap to allow fuel tank filling then fully tighten clockwise
CAUTION: Never place anything over fuel tank cap because the vent hole on the top of fuel tank cap can be blocked and the engine could misfire.

Always stop engine before refueling. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Fuel is flammable and explosive under certain conditions. Never use an open flame to check fuel level. Never smoke or allow flame or spark in vicinity. Always work in a well-ventilated area. Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow. Always wipe off any fuel spillage from the vehicle. Oil switch is electronic switch, oil switch turns off after turn engine off, oil can not flow out from switch, oil switch turn on after starting the engine, then oil can flow out from switch.

Seat

Pull the adjustment lever up to adjust the seats position forward

or backward. Please adjust it to the best position according to your height.

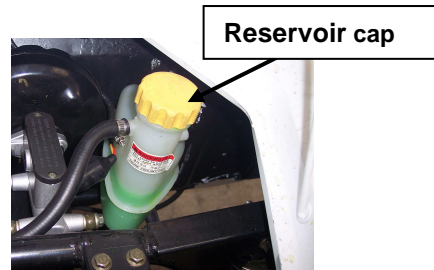


CAUTION: Never put spinal or too heavy material to avoid lacerate or destroy seat.

Safety belt is strongly recommended for the diver and passenger if any during driving. Otherwise might result in serious injury or death.

RESERVOIR CAP

It is located at the top of reservoir, reservoir connects the radiator.



WARNING

Never operate reservoir cap to avoid scald when engine is hot. Please turn it in counter-clockwise when take it off; otherwise turn it in lock wise.

Fuel Gauge

Located on the right side of the engine, the gauge shows an approximate amount of the engine oil.

Refer to LIQUID to check the engine oil level correctly.

LIQUIDS

While reading this Operator's Guide, remember that: Indicates a potential hazard that, if not avoided, could result in serious injury or death.

This section specifies the recommended liquids and procedures to check their levels. Refer to MAINTENANCE for procedures to replace the liquids.

Fuel

Recommended Fuel

Use regular unleaded gasoline or gasohol containing less than 10% of methanol, available from most service stations. The gasoline use must have an octane number of 93 or higher.

NOTE: In most service stations, pump octane number corresponds to octane number. Usually a sticker can be found on the pump.

CAUTION: Never experiment with other fuels. The use of unrecommended fuel can result in vehicle performance deterioration and damage to critical parts in the fuel system and engine components.

CAUTION: Never mix oil with fuel. This XYUTV1000 has a 4-stroke engine. Oil must be added to engine base only.

Fuel Level

Always stop engine before refueling. Open cap slowly. If a differential pressure condition is noticed (whistling sound heard when loosening fuel tank cap) have vehicle inspected and/or repaired before further operation. Fuel is flammable and explosive under certain conditions. Never use an open flame to check fuel level. Never smoke or allow flame or spark in vicinity. Always work in a well-ventilated area. Never top up the fuel tank before placing the vehicle in a warm area. As temperature increases, fuel expands and may overflow. Always wipe off any fuel or oil spillage from the vehicle.

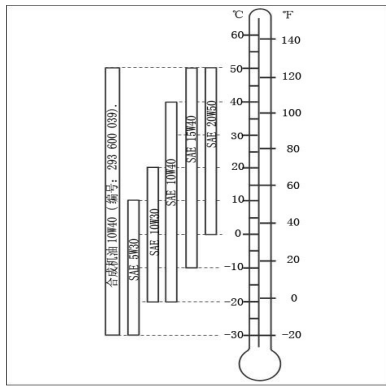
Engine/Transmission/front and rear differential Oil Recommended Oil

Use 4-stroke engine oil that meets or exceeds the requirements for API service classification SG, SH or SJ. Always check the API service label on the oil container to be sure it includes the letters SG, SH or SJ. Only use high quality high-detergent oil.

Note: Engine and transmission and front and rear differential are the different oil lubricates
*Engine oil: 10W/30,
Transmission and front and rear differential oil: 75W/90*

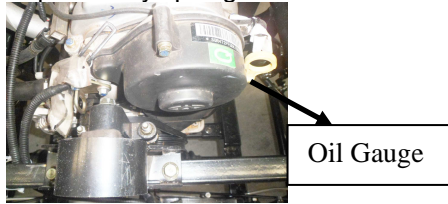
Oil Viscosity

SAE 10W30 is recommended for all seasons. However, during the hottest days of the summer and bitter cold days of the winter, refer to the following chart to select the proper viscosity.



NOTICE:

Check level frequently and refill if necessary. Do not overfill. Operating the engine/transmission with an improper level may severely damage engine/transmission. Wipe off any spillage.



RH SIDE OF ENGINE

With vehicle on a level surface and engine cold, not running, check the oil level as follows:
 1. Unscrew dipstick then remove it and wipe clean.
 2. Reinstall dipstick, screw in it completely.
 3. Remove and check oil level. It should be near or equal to the upper mark.



4. To add oil, remove dipstick. Place a funnel into the dipstick tube and fill up with the recommended oil to upper mark. Do not overfill.
5. Properly tighten dipstick

Engine Coolant

Recommended Coolant

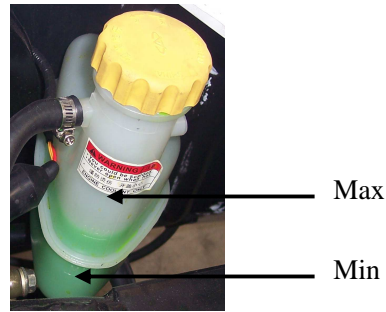
Remove the reservoir cap

Always use ethylene-glycol antifreeze containing corrosion inhibitors specifically for internal combustion aluminum engines. Cooling system must be filled with water and antifreeze solution (50% water, 50% antifreeze).

Coolant Level

Check coolant level with engine cold. Never add coolant in cooling system when engine is hot.

With vehicle on a level surface, liquid should be between MIN. and MAX. level marks of coolant reservoir.



NOTE:
 When checking level at temperature lower than 20°C (68°F), it maybe slightly lower than MIN mark.

Add coolant up to MAX. mark if required. Use a funnel to avoid spillage. Do not overfill. Properly reinstall and tighten filler cap and reinstall access panel.
If the coolant is added in the coolant reservoir, check the level in the radiator too. Add coolant if necessary



■ Brake Fluid

Recommended Fluid
Always use brake fluid meeting the specification DOT 4 only.

CAUTION: To avoid serious damage to the braking system, do not use fluids other than the recommended one, nor mix different fluids for topping up.

Fluid Level

With vehicle on a level surface, check brake fluid in reservoirs for proper level. They should be above MIN. mark. Add fluid as required. Do not overfill.

Clean filler cap before removing.

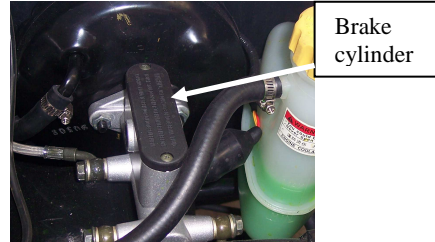
CAUTION: Use only DOT 4 brake fluid from a sealed container. Do not use brake fluid taken from old or already opened containers.

NOTE: A low level may indicate

leaks or worn brake pads. See an authorized Discovery UTV dealer.

Brake cylinder Fluid Reservoir

Turn steering in the straight-ahead position to ensure reservoir is level. Check the brake fluid level, the reservoir is full when the fluid reaches of the top of the reservoir.



NOTE: A cooling system that frequently requires coolant is the indication of leaks or engine problems. See an authorized Discovery UTV dealer.

■ Battery

This vehicle is equipped with a 12V36AH battery.

Cleaning

Clean battery post with a wire brush. Apply dielectric grease on post to protect against oxidation.

Removal battery

Disconnect Green (-) cable first then RED (+) cable.

Always respect this order for disassembly when removal battery from vehicle; disconnect Green (-) cable first.

Unscrew battery fix board, take out battery

Installation

Reinstall battery in vehicle.

Connect RED (+) cable first then GREEN (-) cable. Always connect RED (+) cable first.

BREAK-IN PERIOD

Engine

A break-in period of 10 operating hours is required before running the vehicle at sustained full throttle.

CAUTION: Never mix oil with fuel. This vehicle has a 4-stroke engine.

Oil must be added to engine base only.

During this period, maximum throttle should not exceed 3/4. However, brief full acceleration and speed variations contribute to a good break-in. Continued wide open throttle accelerations, prolonged cruising speeds and engine overheating are detrimental during the break-in period.

10-Hour Inspection

As with any precision piece of mechanical equipment, we suggest that after the first 10 hours or 30 days after the purchase, whichever comes first your vehicle be inspected by an authorized XYUTV1000 dealer. This inspection will give you the opportunity to discuss the unanswered questions you may have encountered during the first hours of operation.

The 10-hour inspection is at the expense of the vehicle owner.

PRE-OPERATION CHECK

WARNING

The pre-operation check is very important prior to operating the vehicle. Always check the proper operation of critical controls, safety features and mechanical components before starting. If not done as specified here, severe injury or death might occur.

- Apply parking brake and check if it operates properly.
- Check tire pressure and condition.
- Check wheels and bearings for wear and damage.
- Check location of controls and ensure they work properly.
- Verify if steering operates freely.
- Activate throttle control lever several times to ensure it operates freely. It must return to idle position when released.
- Activate the brake pedal to make sure the brakes fully apply. Pedal must fully return when released.
- Ensure transmission lever is working then reset in PARK position.
- Check fuel, oil and coolant levels.
- Check for oil leaks on the engine/transmission and drive train components.
- Clean headlamps and taillight.
- Ensure front access compartment cover and rear storage compartment cover are properly latched.
- Look and feel for loose parts before engine is on. Check fasteners.
- Ensure the path of travel is free of persons and obstacles.
- Check operation of ignition switch,

start button, engine stop switch, headlamps, taillight and indicator lights.

- Start engine and drive forward slowly a few feet and apply all brakes individually to test them.

OPERATING INSTRUCTIONS

General

The transmission lever must be on NEUTRAL to allow engine to start.

Initial Cold Starting

Insert key in ignition switch and turn to ST.

NOTE: Do not forget to place the engine stop switch to RUN.

Turn the ignition key and hold until the engine starts.

CAUTION: Do not turn the ignition key more than 30 seconds. A rest period should be observed between the cranking cycles to let the starter cool down. Pay attention not to discharge the battery.

NOTE: The throttle can be used to help starting the engine faster. Press the throttle lever slightly; if it is pressed too much, the choke system will not be activated.

Release the ignition key immediately when the engine has started.

Stopping the Engine

Avoid parking on an incline surface.

Release throttle and completely stop the vehicle. Apply brake to

stop it steadily.

Shift the transmission to neutral. Press the engine stop switch in OFF position. Turn key in ignition switch to OFF. Remove key from ignition switch.

Shifting the Transmission

Let engine idle to warm up. Press the clutch pedal by left foot, apply brakes and select the gear 1, press the clutch pedal to the end while shifting gear, release the throttle pedal from your right foot.

CAUTION: Don't press the throttle pedal while shifting the transmission, press the brake pedal if necessary, gradually press or reduce the throttle pedal to change the vehicle speed, so it would run smoothly.

Using the Reverse

CAUTION: When changing from forward to reverse, or vice-versa, always completely stop the vehicle and apply the brake prior to moving the transmission lever.

Post-Operation Care

When vehicle is operated in muddy conditions, rinsing the vehicle is recommended to preserve vehicle and its components and to keep lights clean.

NOTE: Never use the high pressure washer to clean the vehicle USE LOW PRESSURE ONLY (like a garden hose). The high pressure can cause electrical or mechanical damages.

Turn Over

When vehicle is turned over or stays tilted on the side, replace the vehicle in its normal operating position (on all four wheels). Before

starting engine, check engine oil level and refill if necessary. If the oil pressure light stays ON after starting engine, stop engine and see an authorized Discovery UTV dealer as soon as possible.

XYUTV1000 Immersion

Should the XYUTV1000 become immersed, it will be necessary to take it to an authorized Discovery UTV dealer as soon as possible. **DO NOT START THE ENGINE!** Immersion of the XYUTV1000 can cause serious damage if the correct re-start procedure is not followed.

Cargo

The vehicle handling, stability and braking distance are affected when loading cargo and using the vehicle. Correct loading and weight distribution are therefore important. Never overload, tow or carry cargo improperly. Always ensure the cargo is safely secured and properly distributed before operating the vehicle. Safely reduce speed according to

terrain conditions when carrying cargo. Allow greater distance for breaking. Always secure cargo as low as possible to reduce the effect of a higher center of gravity. Failure to follow the recommendations here could cause changes in vehicle handling which could lead to an accident resulting in severe injuries including the possibility of death.

Transportation

When transporting a vehicle, secure vehicle to trailer or in pickup box with suitable tie-downs. Using ordinary ropes is not recommended. Never tip this vehicle on end for transporting. We recommend that you carry the vehicle in its normal operating position (on all four wheels). Shift the transmission to gear 1st or reverse. Secure the vehicle by the front bumper and rear bumper. Secure other locations may damage the vehicle.

CAUTION: Don't tow this vehicle behind a car or other vehicle. Use a trailer.

MAINTENANCE CHART

The maintenance is very important, if you are not familiar with safe service

practices and adjustment procedures, see your authorized Discovery UTV dealer.

LUBRICATION AND MAINTENANCE CHART I: Inspect, verify, clean, adjust, lubricate, replace if necessary C: Clean L: Lubricate R: Replace	INITIAL INSPECTION 10 h or 30 days OR 300 km (185 m.)	EVERY				TO BE PERFORMED BY
		25 h OR 750 km (470 m.)	50 h OR 1500 km (930 m.)	100 h OR 1 YEAR OR 3000 km (1865 m.)	200 h OR 2 YEARS OR 6000 km (3730 m.)	
ENGINE/TRANSMISSION						
Engine/transmission oil and filter ④	I		R			CUSTOMER
Engine/transmission oil strainer cleaning					C	DEALER
Valve adjustment	I			I		DEALER
Engine mount fasteners	I			I		DEALER
Exhaust system	I			I		DEALER
ECUI				C		CUSTOMER
Condition of seals	I			I		DEALER
Coolant ④	I			②	R	CUSTOMER
Radiator cap/cooling system pressure test	I				I	DEALER
Radiator condition/cleanliness (radiator fins) ③	I		I			CUSTOMER
Drive belt				I		CUSTOMER
Front and rear differential	I		I			DEALER
FUEL SYSTEM						
Air filter ④		C		R		CUSTOMER
Fuel lines and connections	I			I		DEALER
ELECTRICAL SYSTEM						
Spark plug	I			R		DEALER
Battery connections	I		I			CUSTOMER
Wiring harnesses, cables and lines	I			I		DEALER
Condition of ignition switch, start button and engine stop switch ④	I			I		CUSTOMER
Condition of lighting system (HI/LO intensity, brake light, headlamp aiming, etc.) ④	I			I		CUSTOMER
2WD/4WD Switch	I			I		

LUBRICATION AND MAINTENANCE CHART I: Inspect, verify, clean, adjust, lubricate, replace if necessary C: Clean L: Lubricate R: Replace	INITIAL INSPECTION 10 h or 30 days	EVERY					TO BE PERFORMED BY	
		25 h OR 750 km (470 m.)	50 h OR 1500 km (930 m.)	100 h OR 1 YEAR OR 3000 km (1865 m.)	200 h OR 2 YEARS OR 6000 km (3730 m.)			
DRIVE TRAIN								
Front drive shaft			I				DEALER	
Rear drive shaft			I				DEALER	
Front output shaft							DEALER	
Rear output shaft					I		DEALER	
Wheel bearings condition					I		CUSTOMER	
STEERING/CONTROL SYSTEMS								
Steering wheel fasteners					I		DEALER	
Throttle/housing/cable ④	I		I				CUSTOMER	
Choke condition ④	I		I				CUSTOMER	
Steering system ③	I				I		DEALER	
Tie rod ends			I				DEALER	
Wheel nuts/studs	I		I				CUSTOMER	
Wear/pressure of tires ④		EVERY RIDE						CUSTOMER
Front wheels alignment	I				I		DEALER	
SUSPENSION								
Trailing arms ④					I		DEALER	
Shock absorbers ④			I				DEALER	
A-arms			I				CUSTOMER	
BRAKE								
Brake fluid front/rear ④	I	I				R ⑤	CUSTOMER	
Brake pads		I					CUSTOMER	
Brake system (discs, hoses etc.)					I		CUSTOMER	
BODY/FRAME								
Engine compartment	C		C				CUSTOMER	
Frame					I		DEALER	
Chassis fasteners			I				CUSTOMER	
Seat fastener		EVERY RIDE						CUSTOMER
Vehicle cleaning and protection			C				CUSTOMER	

① To be performed by an authorized Discovery UTV dealer. The initial maintenance is very important and must not be neglected.

-
- ② Every 100 hours, check coolant strength and pressure.
 - ③ More often under severe use such dusty area, sand, snow, wet or muddy conditions.
 - ④ Pre-ride inspection item.
 - ⑤ To be performed by an authorized Discovery UTV dealer.

MAINTENANCE

While reading this Operator's Guide, remember that:

⚠ WARNING

Indicates a potential hazard that, if not avoided, could result in serious injury or death.

⚠ WARNING

Unless otherwise specified, engine should not be running for all maintenance procedures.

⚠ WARNING

Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/assembly, always replace with a new one.

The following covers the maintenance items that can be performed by the customer if desired. Other items found in maintenance chart must be performed by an authorized Discovery UTV dealer.

NOTE: Among other things, this section gives the procedures to replace the liquids. Refer to LIQUIDS for procedures to check levels and refill.

Engine/Transmission/front and rear differential Oil Change and Oil Filter Replacement

Oil and filter are to be replaced at the same time. Oil change should be done with a warm engine.

WARNING

The engine oil can be very hot. To prevent burning yourself, do not remove the engine drain plug or the filter cover if the engine is hot. Wait until engine oil is warm.

- Ensure vehicle is on a level surface.
- Remove dipstick.
- Clean the oil drain plug area.
- Place a drain pan under the oil drain plug area.
- Unscrew oil drain plug.
- Allow enough time for oil to flow out of oil filter.



Oil drain plug

- Unscrew the original oil filter cover, replace with a new one.
- NOTE: Check the cover O-ring and change it if necessary.

Wipe out any oil spillage on engine.

Change gasket on oil drain plug. Clean gasket area on engine and oil drain plug then reinstall plug. Refill engine at the proper level with the recommended oil. Refer to SPECIFICATIONS for capacity.

Start engine and let idle for a few minutes. Ensure oil filter area and oil drain plug areas are not leaking. Stop engine. Wait a while to allow oil to flow down to crankcase then check oil level. Refill as necessary.

Dispose of oil as per your local environmental regulations.

Oil Strainer Replacement

The oil strainer must be cleaned every 200 hours or every 2 years or every 6000 km. Contact an authorized Discovery UTV dealer.

Coolant Replacement

To prevent burning yourself, do not remove the radiator cap or loosen the coolant drain plug if the engine is hot.

Fill the coolant, Open the access panel and remove reservoir cap.

Reservoir cap



Remove the right engine cover. Unscrew the coolant drain plug and drain the coolant into a suitable container.

Replace coolant, Disconnect the engine temperature sensor connectors, then unscrew the bleeding screw on the top of thermostat housing.

Drain the system completely and reinstall the coolant drain plug. Fill the radiator until the coolant comes out by the thermostat housing hole. Install the bleeding screw then remove the hose pincher. Complete the radiator filling.

Check the level in the coolant reservoir and refill if necessary.

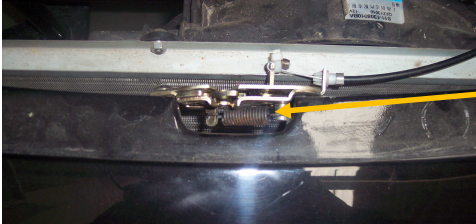
Run engine at idle with the radiator cap off. Slowly add coolant if necessary. At this point, wait until engine reaches normal operating temperature. Depress the throttle lever two or three times; then add coolant if required. Install radiator cap. Inspect all connections for leaks and check coolant level in the reservoir.

Valve Adjustment

See an authorized Discovery UTV dealer for valves adjustment. Insufficient clearance will cause loss of power and possibly damage the valves. Excessive clearance will cause noise.

Radiator

Periodically check the radiator area for cleanliness.



Radiator

Inspect radiator fins. They must be clean, free of mud, dirt, leaves and any other deposit that would prevent the radiator to cool properly.

Remove as much deposits as you can with your hands. If water is available in proximity, try rinsing the radiator fins. If available, use a garden hose to rinse the radiator fins.

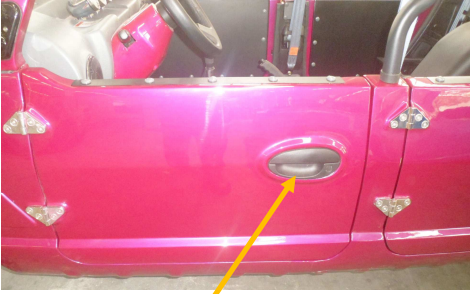
WARNING

Never clean radiator with your hands when it is hot. Let the radiator cool down before cleaning.

CAUTION: Be careful not to damage the radiator fins when cleaning. Do not use any object/tool that could damage the fins. The fins are purposely thin parts to allow efficient cooling. **WHEN HOSING, USE LOW PRESSURE ONLY, NEVER USE A HIGH PRESSURE WASHER.**

See an authorized Discovery UTV dealer to check the performance of the cooling system.

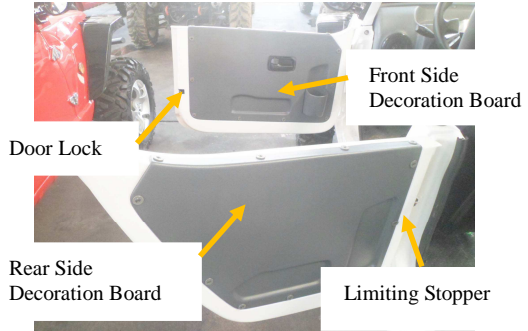
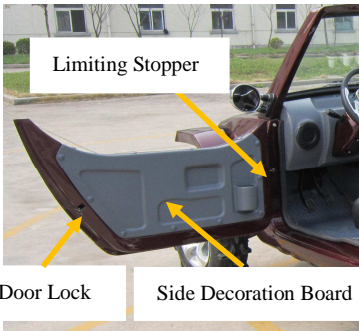
Door System



Outside Door Handle



Inside Door Handle



Due to this car is open type, both sides of the door can be opened and closed by a open handle.

1. pull the open handle or the inside handle gently, you can open the door.
2. Push inside the door and loose the open handle gently, you can close the door.

CAUTION:

1. if the lock of the door is broken, you can loose the screws on the trim panels then open the trim panels to repair it.
2. Don't pressure on the door when it is opened, otherwise the door will be destroyed.

Air Intake System

Air Filter Cleaning/Draining

Periodically inspect air filter box drain tube for water or deposits.



NOTE: If vehicle is used in dusty area, inspect more frequently than specified in MAINTENANCE CHART. If water/deposits are found, squeeze and remove the clamp. Pull drain tube out.

CAUTION: Do not start engine when water is found in the drain tube.

When water/deposits are found, the air filter must be inspected/dried/replaced depending on its condition.

Remove air filter as explained below.

Air Filter Removal

CAUTION: Never remove or modify any component in the air filter box. Otherwise, engine performance degradation or damage can occur. The engine carburetion is calibrated to operate specifically with these components. remove seat, release clamps and remove air filter box cover.

Pour cleaning solution into a bucket. Put the filter in to soak. While filter soaks, clean inside the air box. Rinse the filter with warm water until all cleaning solution disappears. Then, let the filter dry completely. When the filter is dried, re-oil with air filter oil.

Air Filter Installation

Properly reinstall removed parts in the reverse order of their removal.

Electrical Battery

WARNING

Never charge a battery while installed in vehicle.

Clean battery post with a wire brush. Apply dielectric grease on post to protect against oxidation.

Fuses

If a fuse is damaged, replace it by one of the same rating.

CAUTION: Do not use a higher rated fuse as this can cause severe damage.

To remove fuse from holder, remove the fuse holder cover then pull fuse out. Check if filament is melted.

Bulb Replacement

Always check light operation after replacement.

CAUTION: Never touch glass portion of a halogen bulb with bare fingers, it shortens its operating life. If glass is touched, clean it with isopropyl alcohol which will not leave a film on the bulb.

Drive Train

Drive Shaft Boot/Protector

Inspection

Visually inspect drive shaft protectors and boots conditions. Check protectors for damage or rubbing against shafts. Check boots for cracks, tears, leaking grease etc. Repair or replace damaged parts as necessary.

Wheel Bearing Condition

Push and pull the wheels from the upper edge to feel the play. See an authorized Discovery UTV dealer if there is any play.



Wheel

Occasionally, wheel nuts should be removed to apply anti-seize lubricant on studs to ease future removal. This is particularly important when vehicle is used in salt-water environment or in mud. Remove one nut at a time, lubricate then retorquer.

Tires/Wheels

Tire Pressure

WARNING

Tire pressure greatly affects vehicle handling and stability. Under pressure may cause tire to deflate and rotate on wheel. Overpressure may burst the tire. Always follow recommended pressure. Since tires are low-pressure types, a manual pump should be used.

Check pressure when tires are “cold” before using the vehicle. Tire pressure changes with temperature and altitude. Recheck pressure if one of these conditions has changed.

For your convenience, we suggest you to put a pressure gauge in tool box.

TIRE PRESSURE				
TYPE	STREET TIRE		OFF ROAD TIRE	
RECOMMENDED	FRONT	REAR	FRONT	REAR
	200 kPa	225 kPa	45 kPa	50 kPa
MINIMUM	180 kPa	200 kPa	40 kPa	45 kPa

Although the tires are specifically designed for off-road use, a flat may still occur. Therefore, it is recommended to carry a tire pump and a repair kit.

Tire/Wheel Condition

Check tire for damage and wear. Replace if necessary.

Do not rotate tires. The front and rear tires have the same size. The tires are directional and their rotation must be kept in a specific direction for proper operation.

Wheel Removal

Loosen nuts then lift vehicle. Place a support under vehicle. Remove nuts then remove wheel.

At installation, it is recommended to apply anti-seize lubricant on threads. Gently tighten nuts in a criss-cross sequence then apply a final torque of 120 N•m.



Wheel Nut

CAUTION: Always use the recommended wheel nuts. Using a different nut could cause damages to the rim.

The throttle cable, clutch cable and transmission cable must be lubricated with cable lubricant or an equivalent.

WARNING

Using another lubricant could cause bad working of throttle lever/cable

WARNING

Always wear eye protection and gloves when you lubricate a throttle cable, clutch cable and transmission cable.

NOTE: Place a rag around the throttle cable, clutch cable and transmission cable adjuster to prevent the lubricant from splashing.

Reinstall and adjust the throttle cable, clutch cable and transmission cable. With the parking lever on PARK position, start the engine. Check if the throttle cable is adjusted correctly by pressing the throttle pedal. If the engine RPM increases, readjust the throttle pedal free play.



Front suspension



Rear suspension

Suspension

Lubrication

Lubricate front A-arms. Use synthetic grease. There is two grease fittings on each A-arm.

Inspection

Front Suspension

Inspect the struts for oil leaks or other damages. Check tightness of fasteners. See an authorized Discovery UTV dealer as necessary.

Rear Suspension

Inspect shock absorber for oil leaks and fasteners for tightness. See an authorized Discovery UTV dealer as necessary.

A-arms

Check A-arms for cracks, bending or other damages. See an authorized Discovery UTV dealer as necessary.

Adjustment

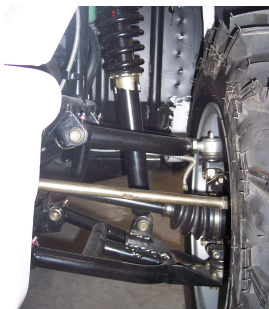
Shocks

WARNING

Left and right adjustment cams must always be set to the same position. Never adjust one adjusting cam only. Uneven adjustment can cause poor handling and loss of stability, which could lead to an accident.

Preload Adjustment

Adjust spring preload by turning adjusting cam accordingly, with the adjusting wrench in vehicle tool box. Turn the adjusting cams clockwise for a firmer ride and rough road condition or when carrying cargo or pulling a trailer. Turn the adjusting cams counterclockwise for a light load and a smooth road condition.



Brake

Front and Rear Brakes

The front and rear brakes are hydraulic disc types. These brakes are self-Adjusting and require no adjustment. The brake lever and the brake pedal require no adjustment.

Check the following to keep the brakes in a good operating condition:

- brake system for fluid leaks
- brake for spongy feel
- brake discs for excessive wear and surface condition
- brake pads for wear, damage or looseness.

SERVICE LIMIT	
Brake pads thickness	1 mm
Front discs thickness	10 mm
Rear disc thickness	10 mm
Maximum discs warpage	0.5 mm

Brake Fluid Replacement

WARNING

The brake fluid replacement or any brake system repairs should be performed by an authorized Discovery UTVdealer.

Body/Frame

Engine area

Check engine area for any damage and leaks. Ensure all hose clamps are properly secured and no hose is cracked, kinked or otherwise damaged.

Inspect muffler, battery and fastening devices.

Check electrical connections for corrosion and tightness, replace or have damaged parts repaired.

Hitch condition

Check tightness of fasteners and tightness/condition of hitch. properly retighten as necessary and replace the hook if worn

Chassis fastening piece

Check fastener condition and tightness on the vehicle. Retighten as required.

Seat fasteners

Remove seat and check latch mechanism and pin for wear, see an authorized Discovery UTVdealer for the parts replacement if damaged.

Vehicle Cleaning and Protection

Never use the high pressure washer to clean the vehicle USE LOW PRESSURE ONLY (like a garden hose). The high pressure can cause electrical or mechanical damages.

Painted parts which are damaged should be properly repainted to prevent rust.

When required, wash the body with hot water and soap (only use mild detergent).

Apply non-abrasive wax.

CAUTION: Never clean plastic parts with strong detergent, degreasing agent, paint thinner, acetone, etc.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	WHAT TO DO	
a, Starting motor doesn't work	Weak battery or loose connections.	Charge it or connect it well	
	Circuit disconnection	Repair	
	Starting motor is defective	Repair or replace	
	b, Spark too weak/no spark	Ignition coil is defective	Replace
		The spark plug burnt or insulator damage	Replace
		The spark plug electrode/clearance is improper	Purge accumulated carbon or Adjust clearance
		Coil wire is defective or disconnection	Replace or adjust
		Ignition timing is not right	adjust
	c, Damage fuel supply system	Fuel pump doesn't working	Check plug or replace
		Plugged/worn oil pipe	purge
		Plugged oil filter	Replace
		combination gas too thick or thin	Check intake pressure/plug of air throttle sensor, or replace sensor
		Cylinder flood	looseRemove spark plug and pluck spark loop charge, release the oil when start the vehicle
	d, Insufficient cylinder pressure	Cylinder gasket is defective	Replace
		improper valve clearance	Adjust
Valve and valve seat is not sealed well		Repair	
The base of intake pipe leakage		Repair	
Piston ring/cylinder port wear off badly		Replace	
	Insufficient cylinder pressure	As 1 (d)	

2 Under power	Insufficient oil supply	As 1 (c)
	Spark too weak	As 1 (b)
	Air throttle sensor is defective	Check plug or replace
	Intake pressure sensor is defective	Check plug or replace
	Spark timing is defective	Check timing, measure cylinder Pressure/sealing of air throttle
3 Overheating	Water pump is defective	Replace
	Fan is defective	Replace or adjust plug
	Insufficient cooling liquid/plugged hose	Refill cooling liquid or purge water pipe
	Thermostat doesn't working	Replace
	Excessive accumulated carbon in chamber	Purge accumulated carbon
	Insufficient/excessive/thin oil	Adjust surface of oil
	Spark timing too early or late	Readjust
	Clutch slip	Repair or replace
4 Backfire	Spark timing too late	Adjust
	Overheating	As 3
	Thin gas mixture	Check the base of intake pipe leakage
	Insufficient oil supply	Check oil filter or replace oil pump
	Valve leakage	Adjust clearance or check timing after grind valve
	Coil wire is defective	replace
5 Abnormal sound inner	Spark timing too early	Adjust & check cylinder pressure
	Excessive accumulated carbon in chamber	purge
	Main shell and connecting rod wear off badly	Replace or repair

	Cylinder/piston/piston pin wear off badly	Replace or repair
	Piston ring& edge wear Off badly	Replace
	Excessive valve clearance	Adjust
	Thrust half-ring wear off badly	Replace
6 Excessive oil consumption	Worn oil sealing of valve pipe	Replace
	Piston pin spring is weak or the opening is not be cross-set	Replace or adjust
	Worn cylinder port	Repair
	Air vent system of crankcase plugged	purge
7 Insufficient oil pressure	Insufficient or excessive oil	Supply or decrease •
	Oil overheating	Repair cooling system
	Oil too thin	Replace
	Oil pipe leakage	Repair or replace
	Oil filter plugged	Purge or replace
	Oil pressure sensor is defective	Replace
8 Blow of exhaust pipe	Exhaust valve is not sealed	Grind valve
	Spark too late	adjust angle of spark and then check cylinder pressure
9 No idle speed	Intake pipe leakage	Adjust or replace
	accumulated carbon/clearance the spark plug is improper	Adjust
	Spark timing is too early	Adjust
	Throttle valve is defective	Adjust/replace air throttle positioning sensor plug or change it , adjust idle stepper motor plug or replace
	Fuel supply not smooth	purge

10 Dynamo default/ not working	Rotor/stator loop open circuit/short circuit/connect iron	Replace or repair
	rectifying tube burnt/open circuit/short circuit	Replace or repair
	Necking insulate is defective , lead line cut off	Replace or repair
11 Dynamo under power	Ring header is defective	Replace
	Electric brush disconnection, oil stain is on slip ring	Purge oil stain
12 Dynamo has abnormal sound	Loose/noise bearing	Replace or fill lubrication grease for adjusting
	rotor and stator collision	Adjust
	Ring header is short circuit	Replace
	Stator winding is short circuit	Replace
13 Clutch slip	Oil stain is on friction piece	Remove or purge
	Friction piece wear off badly	Replace
14 The clutch is shaking with noise	Worn/not free separation bearing	Replace/adjust lubrication grease for purging
	Worn/not free first bearing	Replace
	Loose clutch spline hub	Repair
	Loose platen/membrane spring	Repair or replace
	Flaw is on clutch platen	Replace
	Worn clutch absorber spring	Replace

SPECIFICATIONS

VEHICLE MODEL	XYUTV1000	
	2x4/4x4	
ENGINE	SQR472	
Type	Vertical , 4-cylinder, liquid cooled, 4- stroke, DOHC	
Number of cylinder	4 cylinder	
Number of valve	16 valves	
Displacement	1000 cc	
Bore	Standard	72 mm
Stroke	61.4 mm	
Compression ratio	9.5:1	
Lubrication	combined type (Force & Splash)	
Air filter	2 stage foam filter	
Transmission system		
Transmission	Manual	
COOLING		
Type	Liquid cooled(Water)	
Radiator	Front mounted with thermostatic fan	
Carburetor system		
EFI SYSTEM	Simens VDO electronic control jet injection system	
Idle speed	800-900r/min	
ELECTRICAL		
Magneto generator make and ype	Denso, 400 W @ 6000 RPM	
Ignition type	ECU (electric control unit)	
Ignition timing	Not adjustable	
Number of spark plug	4	
Spark plug	NGK DCPR8E F6RTC	
Battery	12 V, 36 Ah	
Starting system	Electric start, Start on neutral	
Headlamp	2 x 35 W	
Taillight	2X5 /21W	
Pilot lamp cluster	LED, 0.7 V approx. (each)	
FUSES		
Accessories	15 A (power outlet and auxiliary supply)	

Fan	20A		
Main	30 A		
DRIVE TRAIN			
Rear axle	Shaft driven		
SUSPENSION			
Front	Type	Independent suspension — Dual A Arm	
	Load		
Rear	Type	Independent suspension — Dual A Arm	
	Load		
TIRES	Type	Off road tire (recommended)	Street tire (recommended)
	Front	45 kPa	200 kPa ,
	Rear	50 kPa	225 kPa ,
Size	Front	27 x 8-14(Off road tire) or 24 x 8-14 (Street tire)	
	Rear	27 x 11-14(Off road tire) or 24 x10-14(Street tire)	
Wheel nut torque	120 N•m (88 lbf•ft)		
BRAKES			
Front	Hydraulic, 2 discs		
Rear	Hydraulic, 2 discs		
LIQUIDS			
Oil type	engine	SAE 10W/30, 4-stroke mineral-based engine oil. 2.3L	
	transmission	GL-4 75W/90, The load gear oil, 2.0L	
	Front and Rear differential(only 4WD)	GL-4 75W/90, The load gear oil, 450ml and 450ml	
Coolant	Ethylene-glycol/water mix (50% coolant, 50% water). Use coolant specifically designed for aluminum engines.		
Fuel	Type	Regular unleaded gasoline	
	Model	93 or higher	
Hydraulic brake	Brake fluid, , DOT 4		
Propeller shaft joint grease	SHELL Alvania EP-2 only		
CAPACITIES			
Fuel tank	23L		
Coolant	8.5 L		