KWANG YANG MOTOR CO., LTD.
UXV 450i
OFF ROAD
Owner's Manual
Battery & EFI Damage Alert

**CELP indication:**
If brightness, it indicates that a fault has been detected in the vehicle's EFI or electrical system. Requires immediate inspection by a KYMCO dealer.

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**Dangerous Alert**

**CAUTION:**

◆ **POTENTIAL HAZARD**
Operating your UTV in areas with tall or loose vegetation.

◆ **WHAT CAN HAPPEN**
Combustible materials such as tall grass or reeds exposed to the exhaust system's hot components could result in a fire.

◆ **HOW TO AVOID THIS HAZARD**
Clear away plant debris or other materials away from the exhaust system. Use care as the exhaust system can get very hot.
Dear KYMCO UXV 450i Users:

Thank you for purchasing this KYMCO UXV 450i and welcome to the family of KYMCO UXV 450i riders. To enjoy safety and more pleasant riding, become thoroughly familiar with this owner manual before you ride the UXV 450i. Your safety depends not only on your own alertness and familiarity with the UXV 450i but also the UXV mechanical condition.

A pre-ride inspection before every outing and regular maintenance are essential. The quality of each KYMCO UXV 450i is guaranteed.

Note: The information and specifications stated in this manual are for reference only and subject to change without notice.
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Warning Labels Location 11-15
This vehicle can be dangerous to operate.
An impact or rollover can occur quickly even during routine maneuvers such as turning and driving on hills or over obstacles, if you fail to take proper precautions.
For your safety, understand and follow all the warnings contained in this Owner’s Manual and labels on this vehicle.
Keep this Owner’s Manual with this vehicle at all times.

**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:

- **WARNING**
  Indicates a strong possibility that serious injury or death may result if instructions are not followed.

- **CAUTION**
  Indicates a possibility that equipment or property damage could result if instructions are not followed.

- ●**Note:**
  Gives helpful information
This vehicle is not a toy and can be dangerous to operate.

- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert in terrain conditions when operating this vehicle.

- Never operate on too rough, slippery, or loose terrain.

- Always follow proper procedures for turning as represent in this manual. Institution turning at slow speeds before attempting to turn at faster speeds. Do not turn at intemperate speed.

- Never operate on hills too steep for your abilities and cross the side of a hill. Practice on smaller hills before attempting larger hills.

- Always use proper procedures if you stall or roll backward when climbing a hill. To avoid maintain a steady speed when climbing a hill. In case of you stall or roll return, follow the procedure for braking described in this manual.

- Operation of this vehicle is restricted to people 16 years of age and older who possess a valid operator’s license. Usually, no person under the age of 6 may ride as a passenger on this vehicle.
Safety Watchful

● **Always** read the owner’s manual carefully and follow the operating procedures described. Pay special attention to the warnings contained in the manual and on all labels.

● **Never** operate this vehicle with the canopy frame removed.

● **Always** wear the seat belt, helmet and eye protection when driving.

● **Never** operate this vehicle on a public road, even a dirt or gravel one, because you may not be able to avoid colliding with other vehicles.

● **Always** avoid paved surfaces. This vehicle isn’t designed to be used on paved surfaces and may seriously affect handling and control.

● **Always** follow this age prescription:
  Operation of this vehicle is restricted to people 16 years of age and older who possess a valid operator’s license. Usually, no person under the age of 6 may ride as a passenger on this vehicle.

● **Always** keep combustible materials away the exhaust system. Exposure to the hot components could result in a fire.
Serial Number Locations
This vehicle has 2 serial numbers: The frame number and Engine serial number.

The frame number is located on the frame near right front wheel place.

Frame Number
Serial Number Locations
The engine serial number is located on the left side of the engine crankcase.

Engine Serial Number
Wheel steering lock Key/
Ignition Switch Key/Fuel Cap Key
Right Glove Compartment Key

There are two keys come with this vehicle. Keep the spare in the safe place. The key is for wheel steering lock, ignition switch, fuel cap and right glove compartment.

1. Wheel steering lock
2. Ignition Switch
3. Right Glove Compartment
Location Of Parts (1)

1. Right Head Cushion  2. Left Head Cushion  3. Right Latch Handle  
4. Left Latch Handle  5. Right Tail /Brake Light  6. Left Tail /Brake Light
Location Of Parts (2)

07. Seat
08. Seat Belts
09. Battery (Under the seat)
10. Tool or Parts Box (Under the seat)
11. Steering Wheel
12. Headlights
13. Cargo Bed
14. Grab Handles
15. Canopy
Location Of Parts (3)

16. Hood
17. Grab Handles
18. Fuel Tank Cap
19. Muffler & Spark Arrestor
20. Cargo Bed Lever
27. Rear differential lock switch (Optional) 28. Seat belt lamp 29. Light Switch
30. Ignition Switch 31. Parking Brake Lever 32. Steering Wheel
33. Brake Pedal 34. Throttle Pedal
Warning Labels Location

1. Improper Use of Off Highway Vehicles Can Cause Severe Injury or Death
   - Drive Responsibly
   - Avoid loss of control and rollovers
   - Avoid abrupt maneuvers, sudden stops, skidding, or other actions that could cause loss of control
   - Avoid abrupt acceleration when turning, even on flat ground
   - Plan your route
   - Operate with the throttle in the idle position

2. Be sure to read the operator's manual and follow all instructions and warnings.

3. Vehicle rollover could cause severe injury or death.
   - This structure is not a certified rollover protective structure (ROPS) and will not protect occupants in accidents and rollovers.

4. Warning: Improper tire pressure or overloading can cause loss of control and result in severe injury or death.
   - Never exceed the vehicle load capacity of 910 kg (2000 lbs).
   - Always include weight of operator, passenger, cargo, and accessories.
   - Maximum load in cargo bed: 200 kg (441 lbs).
   - Load vehicle back down a slope and apply brakes or accelerate uphill.
   - Loading/Trailer Towing: Cargo or trailer can affect stability and handling. When loaded with cargo or towing a trailer, reduce speed, allow more room to stop, avoid hills and rough terrain, and operate in low range gears only.
   - Never use on public highways where a collision with cars or trucks can occur.
   - Always use an approved helmet and protective gear.
   - Never use with drugs or alcohol.
   - Operators must be 18 years or older, have a valid driver's license, and minors must be supervised by an adult.
Warning Labels Location

4. **WARNING**

NEVER

Carry more than one passenger on this vehicle.

5. **WARNING**

VEHICLE Rollover COULD CAUSE SEVERE INJURY OR DEATH.

THIS STRUCTURE IS NOT A CERTIFIED ROLLOVER PROTECTIVE STRUCTURE (ROPS) AND WILL NOT PROTECT OCCUPANTS IN ACCIDENTS AND ROLLOVERS.

6. **WARNING**

FAILURE TO STOP VEHICLE COMPLETELY BEFORE ENGAGING REVERSE COULD RESULT IN YOUR BEING THROWN FROM THE VEHICLE.

1. STOP VEHICLE COMPLETELY.
2. BRING ENGINE TO IDLE.
3. APPLY BRAKE.
4. SHIFT TRANSMISSION TO NEUTRAL.
5. SHIFT TRANSMISSION INTO REVERSE WHILE APPLYING BRAKE.

WHEN STOPPED:

PUT GEAR SELECTOR IN NEUTRAL AND APPLY PARK BRAKE BEFORE LEAVING THE VEHICLE.

READ OPERATORS MANUAL LOCATED UNDER THE PASSENGER SEAT FOR ADDITIONAL INFORMATION.

WRITE TO KYMCO FOR FREE REPLACEMENT IF MISSING.
Warning Labels Location
KWANG YANG MOTER CO., LTD
NO.35 Wan Hsing Street, San Min District
Kaohsiung, Taiwan, Republic Of China
Telephone: 886-7-3822526
Fax: 886-7-3950021

Printed in Taiwan
Features And Controls
Fuel Level Inspection/Refilling
Check if fuel is sufficient.
If the fuel gauge pointer is E (flash), refill nonleaded gasoline as soon as possible.
(Refilling Method)
1. Turn the tank cap counterclockwise with hand to open the cap.
2. Use only nonleaded gasoline.
3. Turn the fuel tank cap clockwise to tighten it.
4. Fill the fuel tank to the fuel level as shown.
5. Close the fuel tank cap in the reverse order of opening.

Be sure to stop the engine before refilling. The gasoline level shall not exceed the fuel level as drawing shown, otherwise the fuel will penetrate out and contaminate the vehicle.
Features And Controls

Indicator Lights

The indicator lights on the console display:
6. High Beam Indicator Light 7. FI System Indicator Light 8. Lock: (Differential Lock Indicator Light )
Features And Controls

Instruments and Indicators
Features And Controls

Operation Instruction for Multi-meter

Button A (MODE)    Button B (SET)
Features And Controls

Operation Instruction for Multi-meter

Press and hold button A until 2 seconds over.
Shift the unit mph or km/h
Features And Controls

Operation Instruction for Multi-meter

Press and hold button B until 2 seconds over.
Shift function to ODO or TRIP

Button B (SET)
Features And Controls

Operation Instruction for Multi-meter

Press and hold button A and B until 2 seconds over. Simultaneously to reset to zero when at TRIP function.

Button A (MODE)  Button B (SET)
Features And Controls

Operation Instruction for Multi-meter

Press and hold button A and B until 5 seconds over. When at ODO function then you can see clock position is flash word.

Button A (MODE) Button B (SET)
Features And Controls

Operation Instruction for Multi-meter

When you seeing clock position is flash word. You can start setting hour item. Press button B adjust correct hours then Press button A you can see minute position is flash. adjust correct minute. Waiting for 2second. finish times setting.

Button A (MODE)  Button B (SET)
Features And Controls

Auxiliary Power Outlet
The power outlet provides 12-volt receptacle has spade connections on the back that may be used to power an auxiliary light or other optional accessories or lights. The connections are behind the console, under the hood.

Seat Belt Lamp
The seat belt lamp would light on to warn you if you do not fasten the seat.

Rear Differential Lock Switch
When riding on two-wheel drive condition, this switch can lock the rear differential. (Optional, Turf version of model only)
Features And Controls

Seat Removal
- Pull up on front of seat it toward the front of vehicle.
- Install the seat by sliding the tabs into the rear of the seat base.
- Push down firmly on the front of the pins are fully seated into the grommets.

Seat Belts
Your UXV450i is equipped with lap-shoulder seat belts for the operator and passenger. The seat belts should be used by the driver and passenger each time the UTV is driven. If you want to adjust your seat belt height. Remove the bolt and nut, adjust position you need. Then tighten the bolt and nut.
Features And Controls

Pillows adjust
If you want to adjust your pillow height.
Remove the four bolts and adjust pillow position you need.
Then tighten the bolts.
Features And Controls

**Gear Selector**

1. Lower Gear
2. High Gear
3. Neutral Gear
4. Reverse Gear
5. Parking Gear

To change gears, stop the vehicle and with the engine idling, push the button and move the lever to the desired gear. Do not attempt to shift gears with engine speed above idle or while the vehicle is moving. Always place the transmission in gear with the parking brake locked whenever the vehicle is left unattended.

Note: When shifting between high and neutral gear, the button does not need to be pressed.

Maintaining shift linkage adjustment is important to assure proper transmission function. See your dealer if you experience any shifting problems.
Features And Controls

Switches

Ignition Switch
The ignition switch is a three-position, key-operated switch. The key can be removed from the switch when it is in the OFF position.

ON: Electrical circuits are on
Electrical equipment can be used.

OFF: Engine off. All electrical circuits are off except Acc.12V

START: Electrical starter is engaged by holding ignition switch key in this position. Upon release, the key will return to the ON position.
Features And Controls
Switches

Light Switch

- The ignition switch key must be in the **ON** position to operate the headlights.
- The switch has 4 positions.

1. **Light off** - At this position, light is turn off.

2. **Position light** - At this position, light is turn off

3. **LO Headlight Beam** - When you select this position, low beam will illuminate.

4. **Hi Headlight Beam** - When you select this position, high beam will illuminate. High beam indicator light will turn on.
Features And Controls

Switches

Drive Select Switch
The 2WD/4WD allows the operator to operate the vehicle in either two-wheel drive (rear wheel) or four wheel drive (all wheels). For normal riding on flat, dry, hard surfaces, two-wheels drive should be sufficient. In situations when additional traction is necessary, four-wheel drive would be the desired choice. To either engage or disengage the front wheels push and turn the switch to the 4WD position or the 2WD position.

Drive Select Indicator
Displays 4WD when selected by the 4WD drive selector switch.
Features And Controls

Differential Lock mode

The vehicle is equipped with a lockable differential that allows the operator to choose between an open differential or a closed differential in low traction situations. Turf version of model is equipped with both front and rear differentials.

The different functions as below charts.

<table>
<thead>
<tr>
<th>Standard Version Model</th>
<th>Front Left &amp; Right Wheels</th>
<th>Rear Left &amp; Right Wheels</th>
</tr>
</thead>
<tbody>
<tr>
<td>2WD</td>
<td>Different speed when vehicle turning.</td>
<td>Same speed when vehicle turning.</td>
</tr>
<tr>
<td>4WD</td>
<td>Different speed when vehicle turning.</td>
<td>Same speed when vehicle turning.</td>
</tr>
<tr>
<td>4WD LOCK</td>
<td>Same speed when vehicle turning.</td>
<td>Same speed when vehicle turning.</td>
</tr>
</tbody>
</table>

Notice: Damage to the differential can occur if it is engaged while the vehicle is traveling at high speeds or while the rear wheels are spinning. Slow the vehicle to nearly stopped before engaging the differential.
Features And Controls

Differential Lock mode

<table>
<thead>
<tr>
<th>Turf Version Model</th>
<th>Front Left &amp; Right Wheels</th>
<th>Rear Left &amp; Right Wheels</th>
</tr>
</thead>
<tbody>
<tr>
<td>2WD</td>
<td>Different speed when vehicle turning.</td>
<td>Same speed when vehicle turning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>![Lock the rear differential]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>![Unlock the rear differential]</td>
</tr>
<tr>
<td>4WD</td>
<td>Different speed when vehicle turning.</td>
<td>Same speed when vehicle turning.</td>
</tr>
<tr>
<td>4WD LOCK</td>
<td>Same speed when vehicle turning.</td>
<td>Same speed when vehicle turning.</td>
</tr>
</tbody>
</table>

**WARNING**

NEVER EXCEED 10 MPH (16 KPH) WHEN DIFFERENTIAL IS LOCKED. LOSS OF CONTROL AND SEVERE INJURY OR DEATH MAY RESULT AT HIGH SPEEDS WHEN DIFFERENTIAL IS LOCKED.

Notice: Damage to the differential can occur if it is engaged while the vehicle is traveling at high speeds or while the rear wheels are spinning. Slow the vehicle to nearly stopped before engaging the differential.
Features And Controls

Steering Wheel Adjuster (1)
Pull steering wheel adjuster(1) to adjust the position of steering wheel.

Brake Pedal (2)
Step on the brake pedal to slow or stop or stop the vehicle.

Throttle Pedal (3)
Step the pedal down slightly to increase engine speed.
Always check the throttle pedal in the original position before starting the engine. Make sure there's adequate throttle pedal free play.
Features And Controls
Parking Brake(3)
To engage the parking brake, pull the parking brake lever outward until resistance is felt. Make sure the parking brake lever is functioning properly before each operation.

Note: If you forget to release the parking brake, when riding speed above 5 km/h, the alarm horn would be sounded to warn you.
Features And Controls

Cargo Bed (Lift and lower the cargo bed)

To lift
Push the cargo bed release lever to right side, then slowly lift up cargo bed until it stop.

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

Maximum load in cargo bed: 200 kg
Features And Controls
Cargo Bed(Open and close the tailgate 1)

To open
Unlock the latches (1), and then lower the tailgate.
Features And Controls

Cargo Bed(Open and close the tailgate 2)

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

| WARNING | Do not sit on or use tail gate as a step. |

| WARNING | Never drive your UTV with the tailgate open or the cargo bed in the tilted position. This could cause instability which could lead to a tip over or an accident. Tilting the cargo bed exposes the exhaust system. Always keep combustible materials away the exhaust system. Exposure to the exhaust system’s hot components could result in a fire. |
Features And Controls

Hood (To Open)
Pull up the hood from the front end.
Then remove the hood.
Features And Controls

Hood (To Install)

Insert the tabs(1) and tap the tabs(2)(3) to correct position, then check tightness.

The vehicle goes with additional tab accessory(4), customer can install the tab to strengthen the tightness if necessary.

Notice: Install incorrectly could cause the hood loosen and fall off when vehicle being driven.
Features And Controls

Front Compartment (To Open)
Release the latches and open the front compartment.
Features And Controls
Rear Compartment

(To open) Pull the handle(1) and open the rear compartment.

(To install) Pull the handle, push ends of cover, release and push the handle to make sure latches(2) engage with the grooves firmly.

Notice: Install incorrectly could cause the latch loosen and the rear compartment opened.
How to operate

Daily Safety Checks
Check the following items each day before operation.

1. Fuel ------------------ Enough fuel in tank, no leaks.
2. Engine Oil-----------Engine oil level is within the standard (when engine is cold), no leaks.
3. Tires ----------------- Air pressure (when cold) and check tires crack, damage or abnormal wear. Check for any imbedded stones or other foreign particles in tread.
4. Front wheel Air pressure : 0.7 kgf/cm²; 10 psi.
5. Rear wheel Air pressure : 0.98 kgf/cm²; 14 psi.
6. Headlight & other indicate light ----- Check the operation if they are normal.
7. Brake/Brake oil level ----- Check the operation and oil level is normal.
8. Coolant ------ Coolant level between level lines (when engine is cold), no leaks.
9. Front gear case & Rear gear case ---- No oil leak.
10. EFI system ------ Check Engine lamp is not illuminated.
How to operate
Driving Safely (Driving procedures)
1. Sit on the seat and fasten the seat belt.
2. Wear the helmet and eyes protection when driving.
3. After starting the engine and allowing it to warm up, shift the transmission into gear.
4. Check your surroundings and determine the path of travel.
5. Release the parking brake.
6. Keeping both hands on the steering wheel, slowly depress the throttle with your right foot and begin driving. Vehicle speed is controlled by the amount of throttle opening & transmission shifting.
7. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.
8. Always install the safety net before driving.
How to operate
Start the Engine

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never run the vehicle in a closed area, such as a garage. Exhaust gases contain carbon monoxide, a colorless, odorless, poisonous gas. Breathing exhaust gas leads to carbon monoxide poisoning, asphyxiation, and death.</td>
</tr>
</tbody>
</table>

1. Fasten the seat belts, helmets and eyes protections. (both operator and passenger)

2. Set the parking brake.

3. Put the gear shift lever in the “N“ (neutral) position.

4. Turn the ignition switch clockwise to the **START** position; then when the engine starts, release to the **RUN** position foot on the brake.

Note: If the gear shift lever is not in the “N“ (neutral) position, you need to apply the brake then the engine can be started.
How to operate

Start the Engine

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not keep running the starter motor too long otherwise -- the starter motor may overheat causing severe damage.</td>
</tr>
</tbody>
</table>

Braking/Stopping
Always allow plenty of room and time to stop smoothly. Sometimes quick stops are inevitable so always be prepared. Whenever you are stopping quickly, do this:

1. Release the accelerator, then press the foot brake pedal to apply the brake.
2. If the wheels lock, release them for a second then apply them again. On surfaces such as ice, mud or loose gravel, pump the brake pedal rapidly.
3. Never ride the brake. Even maintaining minimal pressure on the brake pedal will cause the brake pads drag on the disc and may overheat the brake fluid.
How to operate

Parking
Parking vehicle follows the rules below:
1. After the vehicle stops, shift into neutral gear.
2. Set the parking brake.
3. Turn off the ignition key.
4. If you have to park on the hill, shift to low gear, set the parking brake, and block the wheel on the downhill side.

Driving Downhill
1. Hold both hands on the steering wheel make the vehicle stable.

2. Avoid steep hills.

3. Before driving down the hill, shift into low gear and release the accelerator to allow maximum engine brake. Do not use 4 wheel drive when driving down the hill. Engine braking can cause the front wheels to slide reducing steering control.
How to operate
Driving Uphill
whenever driving uphill, follow these precautions:
1. Always travel straight uphill.
2. Avoid steep hills (15° maximum)
3. Keep both feet on the floor.
4. Proceed at a steady rate of speed and throttle opening.

NEVER OPERATE UP OR DOWN HILLS STEEPER THAN 15°
How to operate

Crossing Water

UXV450i can only operate in water up to its floorboard. Stay away from fast flowing rivers. This vehicle tires can be buoyant. In deep water, the vehicle may lose traction due to floating.

1. Physically check the depth and current of the water, especially if you can not see the bottom. Also, check for boulders, logs, or any other hidden obstacles.

2. Keep speed slow while maintaining momentum.

3. Make sure you have a way out on the other side of the water.

4. Once you have driven pass the water, briefly apply the brakes to make sure they work.
How to operate

Driving in Reverse
Follow these guidelines below when operating in reverse gear:

1. Back slowly.
2. Apply the brakes lightly for stopping.
3. Avoid turning at sharp angles.
4. Always avoid backing downhill.
5. Never open the throttle suddenly while backing.
6. Always inspect left and right fields of vision before backing.
Emission Control System

Crankcase Emission Control System
This engine is equipped with a closed crankcase system. Blow-by gases forced back to the combustion chamber by the intake system. The system does not allow the blow-by gases to enter the atmosphere.

Exhaust Emission Control System
The emission from the exhaust of this vehicle are controlled by engine design, including factory-set fuel delivery and ignition. KYMCO Exhaust Emission Control System including catalytic converter system. Please do not change any KYMCO design.

Noise Exhaust Emission Control System
Do not modify the engine, intake or exhaust components, as doing so may affect compliance with state and local noise level requirements.
Emission Control System

Spark Arrester
Your UXV 450i has a spark arrester.
The spark arrester be installed and functional when the vehicle operated on public lands.

**Remove method**
remove 3 bolts

**Clean method**
Use the iron brush cleaning carbon on the spark arrester.
Maintenance And Lubrication

Engine Oil

Always check and change the oil at the OWNER MANUAL standard intervals.

1. Position the vehicle on the level ground.
2. Start the engine and let it idle for 20~30 seconds.
4. Add fresh oil into the oil tank.

Make sure the engine oil at the specified level. Add oil as necessary. Check for leaks.

Oil quantity:
Engine oil capacity: 2.85L (3.02 US qt.)
Engine oil changed: 2.2L (2.3 US qt.)
Engine oil changed with filter changed: 2.4L (2.5 US qt.)

Recommended engine oil classification: API Service SJ type or higher
Maintenance And Lubrication

Engine Oil

Engine oil level measurement
A. Place the machine on a level place.
B. Warm up the engine for several minutes and stop it.
C. Unscrew the dipstick/filler cap and check the oil level should be within the standard range.
D. Insert the dipstick and thread it in.

If the level is low, add oil to raise it to the proper level.

NOTE:
Wait a few minutes until the oil level settles before checking.
Maintenance And Lubrication

Engine oil replacement
1. Place the machine on a level place.
2. Warm up the engine for several minutes and stop it.
3. Place a container under the engine.
4. Remove the oil fill cap (1) and oil drain bolt (2) to drain the oil.
5. Add oil to raise it to the proper level.
6. Insert the dipstick and thread it in.

CAUTION:
Be sure no foreign material enters the crankcase.

CAUTION:
When removing the oil filter cap, the compression spring, oil strainer and O-ring will fall out. Take care not to lose these parts.
Maintenance And Lubrication

NOTE:
Skip steps E to I if the oil filter cartridge is not being replaced.

Remove the oil filter cartridge with an oil cartridge wrench.
Maintenance And Lubrication

Changing the front gear box oil
1. Place the vehicle on the a level surface.
2. Place a container under the front gear box to collect the used oil.
3. Remove the front gear box oil drain bolt(1) and front gear box oil filler bolt (2).
4. Install the front gear box oil drain bolt(1) and then tighten it to the specified torque.
5. Fill the front gear box oil with recommended oil.
6. Install the front gear box oil filler bolt(2).

Tightening torque
Drain bolt : 5 N-m (0.5 kgf-m)
Recommended oil : SAE 80
Oil quantity : Periodic oil change 0.25L
Changing the rear gear box oil
1. Place the vehicle on the a level surface.
2. Place a container under the rear gear box to collect the used oil.
3. Remove the rear gear box oil drain bolt(1) and rear gear box oil filler bolt (2).
4. Install the rear gear box oil drain bolt(1) and then tighten it to the specified torque.
5. Fill the rear gear box oil with recommended oil.
6. Install the rear gear box oil filler bolt(2).

Tightening torque
Drain bolt : 5 N-m (0.5 kgf-m)
Recommended oil : SAE 80
Oil quantity : Periodic oil change 0.23L

Note: UXV 450i TURF model equips rear differential same with front gear box.


Maintenance And Lubrication

BRAKE FLUID INSPECTION
Check if the fluid level is between upper and lower level.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTENTIAL HAZARD</td>
</tr>
<tr>
<td>Brake fluid contacting the skin or eyes.</td>
</tr>
</tbody>
</table>

WHAT CAN HAPPEN
May cause irritation.

HOW TO AVOID THE HAZARD
Avoid contacting brake fluid with the skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.

(1) Upper level mark MAX
(2) Lower level mark MIN
Maintenance And Lubrication

Air Cleaner

Remove the seat.
Loosen the air cleaner latches.
Maintenance And Lubrication

Air Cleaner

Remove air cleaner cover.
Remove air filter element.

Using high pressure air to clean air filter element. Inspect the air filter element and replace it if damaged.
Maintenance And Lubrication

Battery Remove
1. Make sure the ignition switch is OFF.
2. Remove the seat.
3. Remove the battery cover.
4. Disconnect the negative (-) terminal lead (1) from the battery first, then disconnect the positive (+) terminal lead (2).
5. Remove the battery.

Battery installation
1. Install in the reverse order of removal.
2. After installing the battery, check if the battery cables are routed correctly.

NOTE:
First connect the positive (+) cable and then negative (-) cable to avoid short circuit.
Fuse Replacement
The fuse box stored in the battery compartment.
To replace a fuse:
1. Make sure the ignition switch is OFF.
2. Open the fuse box cap.
3. Pull the old fuse out.
4. Push the new fuse in to the fuse holder.
5. Close the fuse box cap and install seat.

CAUTION:
To prevent accidental short-circuiting, turn off the main switch when checking or replacing a fuse.
Maintenance And Lubrication

Cooling System Inspection

1. Remove the hood.
2. Check the coolant level in the coolant reservoir when the engine is cold as the coolant level will vary with engine temperature.
   The coolant level should be between the full and low marks.
3. If the level is low, remove the coolant reservoir cap, and then add coolant or distilled water to raise it to the specified level.

Recommended Coolant Solution
Coolant Mixture Ratio:
Water 50%:Antifreeze 50%(1:1)

NOTE:
A permanent type of antifreeze is installed in the cooling system when shipped. It is colored green and contains ethylene glycol. It is mixed at 50% with water and has a freezing point of -35 °C (-31 °F)
Maintenance And Lubrication

Wheel Removal
1. Elevate the wheel by placing a suitable stand under the frame.
2. Remove the nuts from the wheel.
3. Remove the wheel assembly.

Wheel Installation
When reinstalling a wheel, tighten the wheel nuts in a crisscross (rather than a circular) pattern.
Wheel nut torque:
Front: 55 N-m (5.5 kgf-m)
Rear: 55 N-m (5.5 kgf-m)

Be sure the tapered side of the wheel nuts face the wheel rim.
Maintenance And Lubrication

NOTE:
The arrow mark on the tire must point toward the rotating direction of the wheel.

WARNING
POTENTIAL HAZARD
Installing wheels improperly.

WHAT CAN HAPPEN
A wheel may come loose, possibly leading to an accident.

HOW TO AVOID THE HAZARD
Carefully follow the instructions in this Owner's Manual when installing.
Maintenance And Lubrication

Spark Plug 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. For example, a very white center electrode porcelain color could indicate an intake air leak or carburet problem for that cylinder. Do not attempt to diagnose such problems yourself. Instead, take the machine to a KYMCO dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, you should replace the spark plug with one of the proper type.

Standard spark plug (NGK): CR6E

Before installing the spark plug, measure the electrode gap with a feeler gauge and adjust to specification.

Spark plug gap: 0.7~0.8 mm
Maintenance And Lubrication

Tool Kit
The tool kit put down location at Right Glove Compartment.
The tool kit includes the following items:
(1) Hexagon wrench
(2) Spark plug wrench
(3) 8/12; 10/14; 17/19 mm wrench
(4) Screwdriver
(5) Screwdriver handle
(6) Tool bag
(7) Air pressure gauge
# Specifications

**MODEL**: UXV450 *i*(OFF ROAD)

## DIMENSIONS:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length</td>
<td>106 in (2700 mm)</td>
</tr>
<tr>
<td>Overall Width</td>
<td>56.69 in (1440 mm)</td>
</tr>
<tr>
<td>Overall Height</td>
<td>72.84 in (1850 mm)</td>
</tr>
<tr>
<td>Seat Height</td>
<td>32.91 in (836 mm)</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>72.00 in (1829 mm)</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>10.00 in (254 mm)</td>
</tr>
<tr>
<td>Minmum. Turning Radius</td>
<td>157.48 in (4000 mm)</td>
</tr>
</tbody>
</table>

## BASIC WEIGHT:

<table>
<thead>
<tr>
<th>Weight Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Oil and Full Fuel Tank</td>
<td>Standard:515kg Turf Model:551kg</td>
</tr>
<tr>
<td>Max. Cargo Bed Load</td>
<td>200kg</td>
</tr>
<tr>
<td>Dry Weight</td>
<td>490kg</td>
</tr>
<tr>
<td>Max. Weight Capacity</td>
<td>360kg</td>
</tr>
</tbody>
</table>

## ENGINE:

<table>
<thead>
<tr>
<th>Engine Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Type</td>
<td>4-Stroke, SOHC</td>
</tr>
<tr>
<td>Cylinder Arrangement</td>
<td>Single Cylinder</td>
</tr>
<tr>
<td>Bore x Stroke</td>
<td>3.50 x 2.80 in (89 x 71.2 mm)</td>
</tr>
<tr>
<td>Actual Displacement</td>
<td>442.9cc</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>9.1:1</td>
</tr>
<tr>
<td>Starting System</td>
<td>Electric Starter</td>
</tr>
<tr>
<td>Lubrication System</td>
<td>Wet Sump</td>
</tr>
</tbody>
</table>
Specifications

MODEL: UXV450 i (OFF ROAD)

ENGINE OIL:
CAPACITY/EXCHANGE/TYPE: 2.85L/2.2L/5W-30
EXCHANGE WITH FILTER CHANGED: 2.4L

FRONT GEAR BOX:
CAPACITY/EXCHANGE/TYPE: 270ML/250ML/SAE80#

REAR GEAR BOX:
CAPACITY/EXCHANGE/TYPE: 250ML/230ML/SAE80#

AIR FILTER:
TYPE: SPONGE ELEMENT

FUEL:
TYPE: UNLEADED GASOLINE
FUEL TANK CAPACITY: 8.32 gal (32 L)

THROTTLE BODY:
TYPE/MANUFACTURER: PTA1/KYMCO

SPARK PLUG:
TYPE/MANUFACTURER: CR6E-NGK
SPARK PLUG TYPE: 0.7~0.8mm

CLUTH TYPE: WET CENTRIFUGAL AUTOMATIC
## Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>UXV450 i (OFF ROAD)</td>
</tr>
<tr>
<td>TRANSMISSION:</td>
<td></td>
</tr>
<tr>
<td>PRIMARY REDUCTION</td>
<td>V-BELT</td>
</tr>
<tr>
<td>SYSTEM</td>
<td></td>
</tr>
<tr>
<td>SECONDARY REDUCTION</td>
<td>SHAFT DRIVE</td>
</tr>
<tr>
<td>SYSTEM</td>
<td></td>
</tr>
<tr>
<td>TRANSMISSION TYPE:</td>
<td>CVT</td>
</tr>
<tr>
<td>TIRE:</td>
<td></td>
</tr>
<tr>
<td>TYPE</td>
<td>TUBELESS</td>
</tr>
<tr>
<td>SIZE (FRONT)</td>
<td>25x8-12</td>
</tr>
<tr>
<td>SIZE (REAR)</td>
<td>25x10-12</td>
</tr>
<tr>
<td>WHEEL MATERIAL</td>
<td>STEEL</td>
</tr>
<tr>
<td>PRESSURE FR/RR</td>
<td>0.7/0.98 (kgf/cm²) OR 10/14 psi</td>
</tr>
<tr>
<td>BRAKES:</td>
<td></td>
</tr>
<tr>
<td>SYSTEM</td>
<td>FRONT AND REAR UNIFIED</td>
</tr>
<tr>
<td>TYPE (FRONT)</td>
<td>DUAL DISC BRAKE</td>
</tr>
<tr>
<td>TYPE (REAR)</td>
<td>SINGLE DISC BRAKE</td>
</tr>
<tr>
<td>OPERATION</td>
<td>FOOT OPERATION</td>
</tr>
<tr>
<td>SUSPENSION:</td>
<td></td>
</tr>
<tr>
<td>FRONT SUSPENSION</td>
<td>DUAL A-ARM</td>
</tr>
<tr>
<td>REAR SUSPENSION</td>
<td>DUAL A-ARM</td>
</tr>
<tr>
<td>SHOCK ABSORBER:</td>
<td>COIL SPRING/OIL DAMPER</td>
</tr>
</tbody>
</table>

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# Specifications

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>UXV450 i(OFF ROAD)</td>
</tr>
<tr>
<td>WHEEL TRAVEL:</td>
<td></td>
</tr>
<tr>
<td>FRONT WHEEL TRAVEL</td>
<td>176mm</td>
</tr>
<tr>
<td>REAR WHEEL TRAVEL</td>
<td>172mm</td>
</tr>
<tr>
<td>ELETRICAL:</td>
<td></td>
</tr>
<tr>
<td>IGNITION SYSTEM</td>
<td>DC, ECU AUTOMATIC CONTROL</td>
</tr>
<tr>
<td>GENERATOR SYSTEM</td>
<td>1. Rare earth A.C. generator or 2. Ferrite A.C. generator</td>
</tr>
<tr>
<td>BATTERY TYPE</td>
<td>MF-VTX20L</td>
</tr>
<tr>
<td>BATTERY CAPACITY</td>
<td>12V18AH</td>
</tr>
<tr>
<td>BULB VOLTAGE</td>
<td></td>
</tr>
<tr>
<td>WATTAGE X QUANTITY:</td>
<td></td>
</tr>
<tr>
<td>HEADLIGHT:</td>
<td>12V35/35W*2</td>
</tr>
<tr>
<td>REAR LIGHT</td>
<td>12V21W/5W*2</td>
</tr>
<tr>
<td>BRAKE LIGHT</td>
<td>12V5W*2</td>
</tr>
<tr>
<td>POSITION LIGHT</td>
<td>12V5W*2</td>
</tr>
<tr>
<td>Max. Wattage for Accessory limitation</td>
<td>10W (Ferrite ACG model) 190W (Rare earth ACG model)</td>
</tr>
</tbody>
</table>

Note: The limitation is just for reference, using of accessories will void the vehicle warranty. In selecting and using accessories, you are personally responsible for your own safety and the safety of other persons involved.
## Specifications

**MODEL**  
UXV450 i (OFF ROAD)

**SPECIFIED FUSES:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Fuse</td>
<td>30A</td>
</tr>
<tr>
<td>Fan Motor</td>
<td>10A</td>
</tr>
<tr>
<td>Ignition</td>
<td>15A</td>
</tr>
<tr>
<td>Light</td>
<td>15A</td>
</tr>
<tr>
<td>DC 12V Power</td>
<td>15A</td>
</tr>
<tr>
<td>Fuel</td>
<td>15A</td>
</tr>
<tr>
<td>Spare</td>
<td>15A</td>
</tr>
</tbody>
</table>
# PERIODIC MAINTENANCE/LUBRICATION

<table>
<thead>
<tr>
<th>ITEM</th>
<th>INITIAL</th>
<th>EVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine oil</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>*Oil strainer</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Engine oil filter cartridge</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Final gear oil</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Differential gear oil</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Air filter element (for engine and *V-belt compartment)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>*Throttle body</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>*Cylinder head cover breather system</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Spark plug</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>*Fuel line</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>*Valves</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

(Cont'd)
<table>
<thead>
<tr>
<th>ITEM</th>
<th>WHICHEVER COMES FIRST</th>
<th>INITIAL</th>
<th>EVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Routine</td>
<td>mi</td>
<td>Km</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>600</td>
<td>1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1200</td>
<td>2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MONTH</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Brake</td>
<td>• Check operation and brake fluid.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace brake pad if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Coolant</td>
<td>• Check coolant leakage.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace coolant every 24 months.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>V-belt</td>
<td>• Check operation.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace if damage or excessive wear.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Exhaust system</td>
<td>• Check leakage.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Retighten if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace gasket if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Spark arrester</td>
<td>• Clean</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Wheels</td>
<td>• Check balance/damage/runout.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Wheel bearings</td>
<td>• Check bearing assembly for looseness/damage.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace if damaged.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Steering system</td>
<td>• Check operation.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace if damaged.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Check toe-in.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Adjust if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Drive shaft boots</td>
<td>• Check operation.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Replace if damaged.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Suspension</td>
<td>• Check operation.</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td></td>
<td>• Correct if necessary.</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

(Cont’d)
<table>
<thead>
<tr>
<th>ITEM</th>
<th>ROUTINE</th>
<th>INITIAL</th>
<th>EVERY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Knuckle shafts/ Steering shaft</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>•Lubricate every 6 months.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fittings and Fasteners</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>•Check all chassis fittings and fasteners.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>•Correct if necessary.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* : It is recommended that these items be serviced by a KYMCO dealer.
** : Lithium soap base grease.
Maintenance Record
Maintenance Record
Maintenance Record
Maintenance Record
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