




# Your Side-by-Side vehicle can be hazardous to operate.

A collision or a rollover can happen 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 of the warnings contained in this Owner's Manual and the labels applied to your vehicle. Keep this Owner's Manual with your vehicle at all times.

FAILURE TO FOLLOW THE WARNINGS CONTAINED IN THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH. Particularly important information is called out in this manual by the following icons and notations:

	The SAFETY ALERT symbol with the exclamation point in the triangle means ATTENTION! BE ALERT! YOUR SAFETY CAN BE AFFECTED.
	Failure to follow instructions associated with a WARNING symbol could result in severe injury or death to the operator, a passenger, a bystander, or a person inspecting or repairing the vehicle.
	A CAUTION symbol indicates that special precautions must be taken to avoid damaging the vehicle.
NOTE	The NOTE symbol indicates key information about a procedure or to clarify an operation.

## California Proposition 65


This product contains or emits chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

# SECTION 1 – SAFETY INTRODUCTION

## FOREWORD

Congratulations, and thank you for your purchase of a KYMCO Side-by-Side off-road vehicle (also known as a “UTV”). Built with American engineering and manufacturing knowledge, it is designed to provide a superior ride, great comfort, and strong utility capabilities.

This Owner’s Manual was produced to ensure that you become aware of safe off-road vehicle operating procedures. It also includes information about the general care and maintenance of your UXV450i.

Carefully read this manual. If you have any questions regarding your UXV450i, contact an authorized KYMCO dealer for assistance. Remember, only authorized KYMCO dealers have the knowledge and resources to provide you with the best service possible.

## PROTECT YOUR SPORT

Being able to use and enjoy your KYMCO Side-by-Side vehicle requires you and your family to operate it in a responsible manner. Before riding your UXV450i you should:

- **Learn and adhere to all local and state off-road riding laws**
- **Respect your vehicle and its capabilities and limitations**
- **Respect the environment and the rights of others**

We also advise you to strictly follow the recommended maintenance program for your UXV450i as outlined in this manual. This preventative maintenance program was designed to ensure that all of the critical components of your vehicle are thoroughly inspected at various intervals.

The information in this manual is based on the latest product data and specifications available at the time of printing. KYMCO Inc. reserves the right to make product changes and improvements which may affect illustrations or explanations without notice.

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## YOUR UTV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE.

- This Side-by-Side vehicle (UTV) handles differently from other vehicles, including motorcycles, ATVs and automobiles. A collision or rollover can occur quickly, even during routine maneuvers such as turning and driving on hills and over obstacles if you fail to take proper precautions.
- Read this Owner's Manual carefully and follow the operational procedures within. Pay special attention to the warnings in this manual and applied to your vehicle.
- Always ride slowly and be extra careful when operating your UXV450i on unfamiliar terrain. Be alert for changing conditions and terrain when operating your vehicle.
- Never operate your UXV450i on excessively rough, slippery, or loose terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at slow speeds before attempting to turn at faster speeds. Do not turn at an excessive speed.
- Always have your UXV450i inspected by an authorized KYMCO ATV dealer if it has been involved in an accident.
- Never operate your UXV450i on hills that are too steep for the vehicle or for your abilities. Practice on smaller hills before attempting larger hills.
- Never operate this vehicle on a public road, even a dirt or gravel road, as you may not be able to avoid a collision with another vehicle.
- Avoid paved surfaces with your UXV450i This vehicle is not designed to be driven on paved surfaces as its handling and control will be seriously affected.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills that have slippery or loose surfaces. Shift your weight forward when climbing hills. Never open the throttle suddenly or make sudden gear changes. Never go over the top of any hill at high speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this manual. Check the terrain carefully before you start down any hill. Never go down a hill at high speed. Avoid going down a hill at an angle that would cause your UXV450i to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with slippery or loose surfaces. If possible, shift your weight to the uphill side of the vehicle. Never attempt to turn the vehicle around on any hill until you have mastered the turning techniques described in this manual on level ground. Avoid crossing the side of a steep hill if possible.

## YOUR UTV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE.

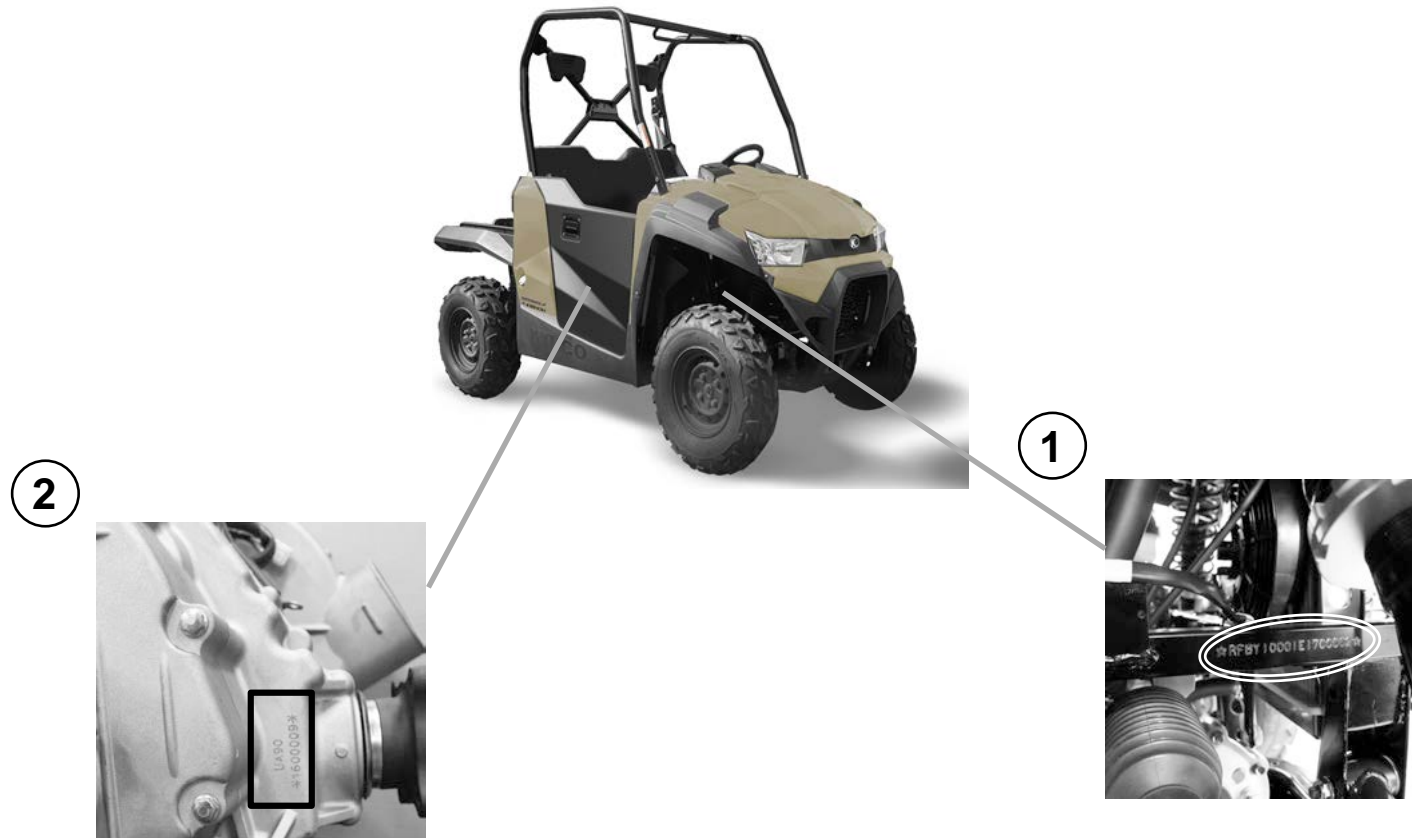
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Exit the vehicle on the uphill side or to either side if pointed straight uphill. Turn the vehicle around and reenter it following the procedure described in this manual.
- Always check for obstacles before operating in an area that you are unfamiliar with. Never attempt to operate your UTV over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be alert for conditions that could cause skidding or sliding. On slippery surfaces such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.
- Never operate your UTV in fast flowing water or in water deeper than the floor boards. Remember that wet brakes may reduce stopping capability. Test your brakes after leaving water. If necessary, apply them lightly several times to let friction dry out the pads.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Always be sure there are no obstacles or people behind you when you operate your UTV in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Never improperly install or improperly use accessories on your UXV450i.
- Always wear the seat belt while driving this vehicle.
- Never alter the hand and foot controls of this vehicle.
- Never operate this vehicle with the overhead canopy removed.
- Never exceed the stated load capacity for any UTV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer and allow greater distance for braking.
- Operation of this UTV is restricted to people 16-years of age or older who possess a valid motor vehicle operator's license. It is recommended that passengers be older than 6-years of age.

# SERIAL NUMBER LOCATIONS

## VEHICLE IDENTIFICATION NUMBERS

Your KYMCO UXV450i has two identification numbers: the Vehicle Identification Number (VIN), and the Engine Serial Number (ESN). The VIN ① is located on the frame, behind the right, front wheel.

The ESN ② is located on the rightside of the engine crank case. The VIN and ESN are required by your KYMCO dealer to order proper parts, perform service, and submit warranty claims. Always provide your vehicle's year, model, VIN and ESN when contacting an authorized KYMCO dealer for assistance. Warranty repairs will be declined by KYMCO if the VIN or ESN on your ATV have been removed or altered in any way. If your ATV requires a repair that will replace the engine crankcase or the frame, ask your dealer to contact KYMCO to discuss the situation.





# LOCATION OF PARTS AND CONTROLS

## PARTS LOCATION

- 1. Headrest Assy
- 2. Taillight  
Brake Light
- 3. Platform
- 4. Muffler / Spark Arrestor



**NOTE:** Your vehicle may differ slightly in appearance from the images in this manual.



## LOCATION OF PARTS AND CONTROLS

- 5. Seat
- 6. Seat Belts
- 7. Battery (Under the hood)
- 8. Steering Wheel Assy
- 9. Headlights
- 10. Canopy



**NOTE:** Your vehicle may differ slightly in appearance from the images in this manual.

## LOCATION OF PARTS AND CONTROLS

11. Hood

12. Fuel Tank Cap



**NOTE:** Your vehicle may differ slightly in appearance from the images in this manual.

## LOCATION OF PARTS AND CONTROLS

13. Speedometer

14. Glove Compartment

15. Auxiliary Power Outlet

17. Gear Shifter

18. Center Glove Compartment

19. Side Compartment

20. Ignition Switch

21. Parking Brake Lever

22. Brake Pedal

23. Throttle Pedal



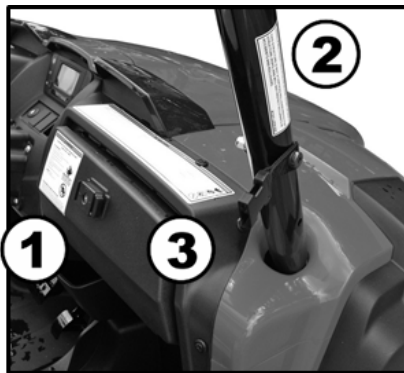
**NOTE:** Your vehicle may differ slightly in appearance from the images in this manual.

# WARNINGS

Your KYMCO UXV450i comes equipped with several labels and hangtags containing important safety information. Anyone who drives the vehicle should read and understand this information before operation. The labels should be considered permanent parts of the vehicle. If a label comes off or becomes hard to read, contact your KYMCO dealer immediately for a replacement.

## WARNING LABELS

On the vehicle's dash




1

**⚠ WARNING**

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


**Drive Responsibly**  
Avoid loss of control and rollovers:

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



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

**NEVER** operate on hills greater than 15 °



**15° MAX**

**Be Sure Riders Pay Attention and Plan Ahead**  
if you think or feel the vehicle may tip or roll, reduce your risk of injury:

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

87516-ALE8-E00

2

**⚠ WARNING**

VEHICLE ROLLOVER COULD CAUSE SEVERE INJURY OR DEATH.

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

87321-LEE8-E01

3

**⚠ WARNING**

IMPROPER TIRE PRESSURE OR OVER-LOADING CAN CAUSE LOSS OF CONTROL AND RESULT IN SEVERE INJURY OR DEATH.

**ALWAYS**

- WEAR A SEAT BELT WHEN RIDING IN THIS VEHICLE.
- KEEP YOUR HANDS AND FEET INSIDE THE VEHICLE AND WATCH FOR BRANCHES, BRUSH, OR OTHER HAZARDS THAT COULD ENTER THE VEHICLE.
- ROLLOVER COULD CAUSE SEVERE INJURY OR DEATH.

THE ROLL BAR AND SEATBELT CANNOT PROTECT OCCUPANTS IN ALL ACCIDENTS, INCLUDING ROLLOVER.

- DRIVE STRAIGHT UP AND DOWN INCLINES - DRIVING ACROSS THE SIDE OF AN INCLINE INCREASES THE RISK OF OVERTURNS.

LOCATE AND READ OPERATOR'S MANUAL.  
FOLLOW ALL INSTRUCTIONS AND WARNINGS.

**NEVER**





- EXCEED THE VEHICLE LOAD CAPACITY OF 910 KG (2006 LBS). INCLUDES WEIGHT OF OPERATOR, PASSENGER, CARGO, ACCESSORIES, AND TRAILER TONGUE. MAXIMUM LOAD IN CARGO BED: 200KG(441 LBS).
- WHEN LOADED-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 ROOMS TO STOP
  - AVOID HILLS AND ROUGH TERRAIN
  - 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 16 years or older, have a valid drivers licence and minors must be supervised by an adult.

87515-ALE8-E00

# WARNINGS

4

**⚠ WARNING**

VEHICLE ROLLOVER COULD CAUSE SEVERE INJURY OR DEATH.

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

87321-LEE8-E01

5

**⚠ WARNING**

 **NEVER**  
Carry more than one passenger on this vehicle.

87560-ALE8-E00

6

**⚠ WARNING**

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

TO ENGAGE REVERSE:	WHEN STOPPED:
1. STOP VEHICLE COMPLETELY.	PUT GEAR SELECTOR IN NEUTRAL AND APPLY PARK BRAKE BEFORE LEAVING THE VEHICLE.
2. BRING ENGINE TO IDLE. APPLY BRAKE.	READ OPERATORS MANUAL LOCATED UNDER THE PASSENGER SEAT FOR ADDITIONAL INFORMATION.
3. SHIFT TRANSMISSION TO NEUTRAL.	WRITE TO KYMCO FOR FREE REPLACEMENT IF MISSING.
4. SHIFT TRANSMISSION INTO REVERSE WHILE APPLYING BRAKE.	

87512-ALE8-E00






# WARNINGS

7

**⚠ WARNING**

SEVERE INJURY OR DEATH CAN RESULT IF YOU IGNORE FOLLOWING:

- MAXIMUM LOAD IN CARGO BED: 190 KG (418 LBS).
- BE SURE CARGO IS SECURED, A LOOSE LOAD COULD SHIFT AND CHANGE HANDLING UNEXPECTEDLY.
- KEEP WEIGHT IN THE CARGO BED CENTERED, LOW AND FORWARD, TOP-HEAVY LOAD INCREASES THE RISK OF OVERTURNS.
- NEVER CARRY PASSENGERS IN CARGO BED.



87323-LEE8-E00



8

**⚠ WARNING**

- IMPROPER TIRE PRESSURE OR OVERLOADING CAN CAUSE LOSS OF CONTROL.
- LOSS OF CONTROL CAN RESULT IN SEVERE INJURY OR DEATH.
- OPERATING TIRE PRESSURE: SET WITH TIRES COLD.  
 RECOMMENDED : FRONT : 70 kPa , (0.70 kgf/cm<sup>2</sup>) , 10 psi  
                             REAR : 98 kPa , (0.98 kgf/cm<sup>2</sup>) , 14 psi  
 MINIMUM : FRONT : 63 kPa , (0.63 kgf/cm<sup>2</sup>) , 9 psi  
                             REAR : 91 kPa , (0.91 kgf/cm<sup>2</sup>) , 13 psi
- NEVER SET TIRE PRESSURE BELOW MINIMUM.
- TIRE MAY DISLodge FROM RIM.
- GROSS VEHICLE WEIGHT RATING: 910 KG (2006 LBS)
- MAXIMUM WEIGHT INCLUDES OPERATOR, PASSENGER, CARGO AND TRAILER TONGUE WEIGHT.

87505-LEE8-E01



# WARNINGS

## 9 EPA LABEL

VEHICLE EMISSION CONTROL INFORMATION	
<p>ENGINE DISPLACEMENT: 443cc                      ENGINE FAMILY: MKYMX.443UV0                      PERMEATION FAMILY: MKYMPMETAL02                      THIS VEHICLE IS CERTIFIED TO OPERATE ON GASOLINE. THIS VEHICLE MEETS U.S. EPA AND CALIFORNIA REGULATIONS FOR 2021 MODEL YEAR NEW UTVS AND IS CERTIFIED TO 1.5 G/KM HC+NOX, 35 G/KM CO AND 1.2 G/KM HC, 15.0 G/KM CO EXHAUST EMISSION STANDARD IN CALIFORNIA.</p>	<p>ENGINE TUNEUP SPECIFICATIONS:                      IGNITION TIMING: NOT ADJUSTABLE                      IDLE SPEED: 1400 ± 100rpm IN NEUTRAL                      IDLE MIXTURE: NOT ADJUSTABLE                      VALVE CLEARANCE: INTAKE: 0.10 ± 0.02mm                      EXHAUST: 0.17 ± 0.02mm</p> <p>SPARK PLUG: NGK CR7E                      SPARK PLUG GAP: 0.7-0.8mm                      FUEL: UNLEADED GASOLINE ONLY -(R+M)/2                      OCTANE                      OIL: 5W-30 (SEE OWNER'S MANUAL)                      MANUFACTURED: / (MONTH/YEAR)</p>
<p>ENGINE EXHAUST CONTROL SYSTEM:TBI,H02S                      KWANG YANG MOTOR CO., LTD                      TAIWAN</p>	<p>KYMCO USA Inc.                      Spartanburg, SC 29307 USA                      87234-AF89-M30</p>

## 10 OFF-ROAD CARB EEC DECAL

VEHICLE EVAPORATIVE EMISSION CONTROL INFORMATION	
<p>EVAPORATIVE FAMILY NAME: LKYM0008UXV                      EVAP EMISSION CONTROL SYSTEM: EVAP Canister, EVAP Canister Purge Valve                      TUNE-UP SPECIFICATIONS: NO OTHER ADJUSTMENTS NEEDED</p>	<p>MODEL NAME: UXV 450i / UXV 450i LE / UXV 450i LE Hunter / UXV 450i LE Prime</p>
<p>THIS OFF-ROAD UTILITY VEHICLE CONFORMS TO CALIFORNIA EVAPORATIVE EMISSIONS REGULATIONS APPLICABLE TO 2020 MODEL-YEAR NEW OFF-ROAD UTILITY VEHICLES &amp; IS CERTIFIED TO 1 GRAM TOG/DAY EVAPORATIVE EMISSION STANDARD IN CALIFORNIA.</p>	
<p>KWANG YANG MOTOR CO., LTD                      TAIWAN</p>	<p>KYMCO USA Inc.                      Spartanburg, SC 29307 USA                      87234-AF89-M31</p>

## 11

**⚠ WARNING**

EXCEEDING VEHICLE'S TOWING LIMIT COULD CAUSE AN ACCIDENT.

REDUCE SPEED WHEN TOWING A TRAILER.

DO NOT TOW IN REVERSE OVER 5 mph.

HIGH SPEED WILL RESULT IN LOSS OF CONTROL.

READ OWNER'S MANUAL FOR DETAILS.

- MAXIMUM TONGUE WEIGHT:  
50 KG (110 LBS).

- MAXIMUM TOWING CAPACITY:  
550 KG (1212 LBS).

87040-LEE8-E00



11



9

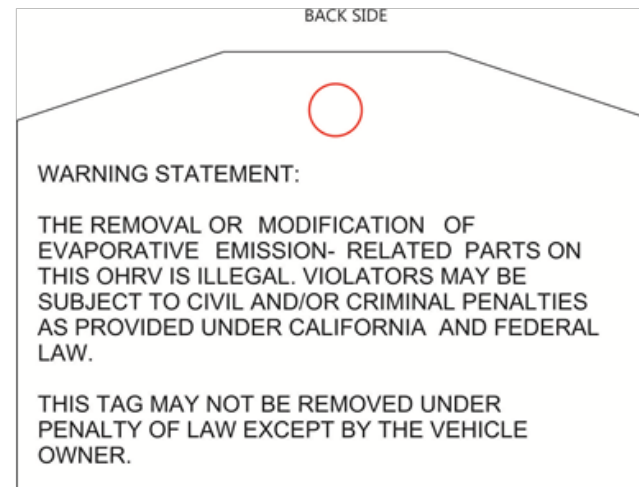
10



# WARNINGS

## HANGTAG

### CAUTION SHIFT HANGTAG



## WARNINGS

### WARNING

#### WARNING

##### POTENTIAL HAZARD

Allowing anyone under 16-years of age to operate this vehicle.

##### WHAT CAN HAPPEN

Use of a Side-by-Side vehicle by children can lead to severe injury or death. Children under 16-years of age may lack the skills, abilities, or judgment to operate the vehicle safely and may be involved in a serious accident.

##### HOW TO AVOID THIS HAZARD

A child under 16-years of age should never operate this vehicle.

#### WARNING

##### POTENTIAL HAZARD

Operating this Side-by-Side vehicle without proper instruction.

##### WHAT CAN HAPPEN

The risk of an accident is greatly increased if you do not know how to operate the vehicle properly in different situations and on different types of terrain.

##### HOW TO AVOID THIS HAZARD

Whether you are a beginning or experienced motorcycle, ATV rider or UTV driver, you should complete a certified training course directed at using this type of vehicle. You should then regularly practice the skills learned in the course in conjunction with the operating techniques described in this Owner's Manual.

#### WARNING

##### POTENTIAL HAZARD

Carrying more than one a passenger on your UTV.

##### WHAT CAN HAPPEN

Carrying more than one a passenger greatly reduces your ability to control this vehicle. This could cause an accident, resulting in injury or death to you and/or your passengers.

##### HOW TO AVOID THIS HAZARD

Never carry more than one passenger. The right seat on this vehicle is designed to accommodate one passenger. Your passenger should use their seat belt at all times.

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV on paved surfaces.

#### **WHAT CAN HAPPEN**

Your UXV450's tires are designed for off-road use only, not for use on pavement. Paved surfaces may seriously affect vehicle handling and may result in your inability to control the vehicle.

#### **HOW TO AVOID THIS HAZARD**

Never operate your UXV450i on any paved surface, including, but not limited to, sidewalks, driveways, parking lots, or streets.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV on public streets, roads, or highways.

#### **WHAT CAN HAPPEN**

You can collide with another vehicle.

#### **HOW TO AVOID THIS HAZARD**

Never operate your UXV450i on a public street, road, highway, or even a dirt or gravel road. In many states it is illegal to operate this type of vehicle on public streets, roads, or highways.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV without wearing eye protection.

#### **WHAT CAN HAPPEN**

Operating an off-road vehicle without eye protection can result in an accident and increases your chances of a severe injury, including loss of sight in the event of an accident.

#### **HOW TO AVOID THIS HAZARD**

Always wear an eye protection (goggles or helmet face shield).

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV while under the influence of alcohol or drugs.

#### **WHAT CAN HAPPEN**

Consuming alcohol or drugs before or during the operation of your UTV can seriously affect your judgment. Consuming alcohol or drugs will cause you to react more slowly and will affect your balance and perception. Operating an UTV with these impairments may cause an accident resulting in injury or death.

#### **HOW TO AVOID THIS HAZARD**

Never operate your UXV450i while under the influence of alcohol or drugs.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV at excessive speeds.

#### **WHAT CAN HAPPEN**

Operating your UXV450i at excessive speeds increases your chances of losing control of the vehicle, which can result in an accident.

#### **HOW TO AVOID THIS HAZARD**

Always drive your UXV450i at a speed that is proper for the terrain, visibility, operating conditions and your experience.

### **WARNING**

#### **POTENTIAL HAZARD**

Attempting wheelies, jumps, and other stunts when driving your UTV.

#### **WHAT CAN HAPPEN**

Attempting wheelies, jumps, and other stunts increases the chance of an accident, including a rollover, when driving this type of vehicle.

#### **HOW TO AVOID THIS HAZARD**

Never attempt stunts such as wheelies or jumps. Do not try to show off when driving your UXV450i.

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Failure to inspect your UTV before operating it. Failure to properly maintain your UXV450i

#### **WHAT CAN HAPPEN**

By not keeping your vehicle in proper working order, you increase the possibility of an accident or damaging your UXV450i.

#### **HOW TO AVOID THIS HAZARD**

Always inspect your UXV450i each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance schedules and procedures in this Owner's Manual.

### **WARNING**

#### **POTENTIAL HAZARD**

Failure to use adequate caution when riding your UTV on unfamiliar terrain.

#### **WHAT CAN HAPPEN**

When driving on unfamiliar terrain you may come upon hidden rocks, bumps, or holes without enough time to react. This could result in the vehicle overturning or you losing control of the vehicle.

#### **HOW TO AVOID THIS HAZARD**

Go slowly and be extra careful when driving your UXV450i on unfamiliar terrain. Always be alert to changing conditions in the terrain when driving your UTV.

### **WARNING**

#### **POTENTIAL HAZARD**

Failure to use adequate caution when driving your UTV on rough, slippery, or loose terrain.

#### **WHAT CAN HAPPEN**

Driving your UXV450i on rough, slippery, or loose terrain can cause loss of traction or control which could result in an accident, including a rollover.

#### **HOW TO AVOID THIS HAZARD**

Do not drive your UXV450i on rough, slippery, or loose terrain until you have learned and practiced the skills necessary to control the vehicle on these surfaces. Always be especially cautious when driving your UTV on rough, slippery, or loose terrain.

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Steering the UTV improperly.

#### **WHAT CAN HAPPEN**

You might lose control of your UXV450i and experience a rollover or collision.

#### **HOW TO AVOID THIS HAZARD**

Always follow proper procedures for steering your UXV450i as described in this Owner's Manual. Practice steering the vehicle at slow speeds before attempting to turn at faster speeds. Do not turn your UXV450i abruptly at excessive speeds.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV on steep hills.

#### **WHAT CAN HAPPEN**

This type of vehicle can overturn more easily on steep hills than on level surfaces or small hills.

#### **HOW TO AVOID THE HAZARD**

Never operate your UXV450i on hills that are too steep for the vehicle or for your abilities. Practice driving on smaller hills before attempting to drive on larger hills.

### **WARNING**

#### **POTENTIAL HAZARD**

Improperly operating your UTV in reverse.

#### **WHAT CAN HAPPEN**

You may hit an obstacle or person behind you with the vehicle, resulting in serious injury.

#### **HOW TO AVOID THIS HAZARD**

Before you engage reverse gear, make sure there are no obstacles or people behind you. When it is safe to proceed, operate your UXV450i in reverse at slow speeds.

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Climbing hills improperly with your UTV.

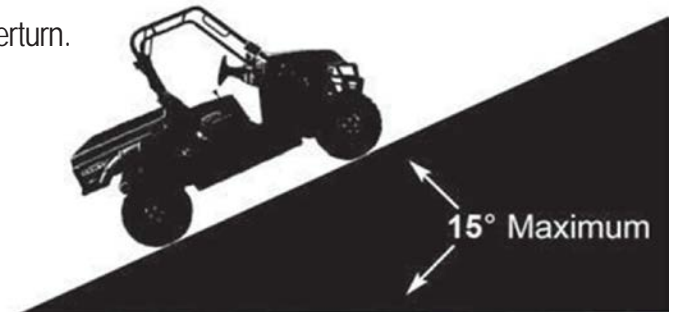
#### **WHAT CAN HAPPEN**

Climbing hills improperly may cause you to lose control of your UXV450i or cause the vehicle to overturn.

#### **HOW TO AVOID THIS HAZARD**

Always follow proper procedures for climbing hills as described in this Owner's Manual. Always check the terrain carefully before you start up any hill.

Never climb hills with slippery or loose surfaces. Never accelerate suddenly as the vehicle might flip over backwards. Never go over the top of any hill at high speed, as an obstacle, a sharp drop, or another vehicle or person might be on the other side of the hill.



**NEVER RIDE YOUR UXV450i UP OR DOWN HILLS STEEPER THAN 15°**

### **WARNING**

#### **POTENTIAL HAZARD**

Going down a hill improperly on your UTV.

#### **WHAT CAN HAPPEN**

Going down a hill improperly could cause you to lose control of your UXV450i or cause the vehicle to overturn.

#### **HOW TO AVOID THIS HAZARD**

Always follow proper riding procedures for going down hills as described in this Owner's Manual. Always check the terrain carefully before you start down any hill on your UXV450i. Never go downhill at a high speed. Avoid going down a hill at an angle that would cause your vehicle to lean sharply to one side. Go straight down the hill whenever possible.



## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Improperly crossing hills or turning on hills while riding your UTV.

#### **WHAT CAN HAPPEN**

Improperly crossing hills or turning on hills may cause you to lose control of your UXV450i or cause the vehicle to overturn.

#### **HOW TO AVOID THIS HAZARD**

Never attempt to turn your UXV450i around on any hill until you have mastered the turning and steering techniques described in this Owner's Manual. Practice these maneuvers first on level ground. Be very careful when turning your UXV450i on any hill, and avoid crossing the side of a steep hill, if possible.

#### **When crossing the side of a hill on this type of vehicle:**

- \* Always follow proper driving procedures as described in this Owner's Manual
- \* Avoid hills with slippery or loose surfaces

### **WARNING**

#### **POTENTIAL HAZARD**

Stalling, rolling backwards, or improperly exiting the vehicle while climbing a hill on your UTV.

#### **WHAT CAN HAPPEN**

Stalling, rolling backwards, or improperly exiting could result in the vehicle overturning.

#### **HOW TO AVOID THIS HAZARD**

Select the proper transmission gear and maintain a steady speed when climbing

#### **If you lose all forward speed:**

- \* Apply the brakes
- \* Engage the parking brake after you are stopped

#### **If you begin rolling backwards:**

- \* Apply the brakes while rolling backwards
- \* When the vehicle comes to a full stop, engage the parking brake and carefully exit the vehicle on the uphill side, or to the side pointed uphill
- \* Obtain assistance and turn the vehicle around so it faces downhill and carefully get back into the vehicle to drive it downhill following the procedure described in this Owner's Manual

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Improperly driving your UTV over obstacles.

#### **WHAT CAN HAPPEN**

Improperly driving over obstacles may cause you to lose control of your UXV450i or cause a collision. A loss of control or a collision may cause the vehicle to overturn.

#### **HOW TO AVOID THIS HAZARD**

Before operating your UXV450i in a new area, check for obstacles. Never attempt to ride your vehicle over large obstacle: such as large rocks or fallen trees. When you go over obstacles, always follow the proper driving procedures as described in this Owner's Manual.

### **WARNING**

#### **POTENTIAL HAZARD**

Skidding or sliding while driving your UTV.

#### **WHAT CAN HAPPEN**

Skidding or sliding may cause you to lose control of your vehicle. When skidding or sliding, your UXV450i could regain traction unexpectedly which could cause the vehicle to overturn.

#### **HOW TO AVOID THIS HAZARD**

Learn to safely control skidding or sliding by practicing first your skills at slow speeds and on smooth terrain. On extremely slippery surfaces such as ice, go slowly and be very cautious to reduce the chance of skidding or sliding your vehicle out of control.

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV through deep or fast flowing water.

#### **WHAT CAN HAPPEN**

Your UXV450i's tires may float, causing loss of traction and loss of control, which could lead to an accident. Water can also reduce the stopping capability of your vehicle's braking system.

#### **HOW TO AVOID THIS HAZARD**

Never operate your UXV450i in fast flowing water, or in water deeper than the floorboard. Remember that wet brakes may have reduced stopping capability. Test your vehicle's brakes after leaving water. If necessary, apply the brakes smoothly several times to dry the pads, drums and rotors.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV with improper tires or with tires that have improper or uneven tire pressure.

#### **WHAT CAN HAPPEN**

Using the wrong tires on your UXV450i, or driving your vehicle with improper or uneven tire inflation, may cause you to lose control of the vehicle, increasing the chance of an accident..

#### **HOW TO AVOID THIS HAZARD**

Always use the proper tire sizes and types on your UXV450i as specified in this Owner's Manual. Always maintain the tire pressures set forth in this Owner's Manual.

## WARNINGS

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your UTV with improper modifications.

#### **WHAT CAN HAPPEN**

Improper installation of accessories or modifications to your UXV450i may cause changes in handling which, in some situations, could lead to an accident.

#### **HOW TO AVOID THIS HAZARD**

Never modify your UXV450i or install accessories that are not specifically designed for your vehicle. All parts and accessories added to your UXV450i should be genuine KYMCO components designed for use on this type of vehicle, and should be installed and used according to the installation instructions. Never alter the hand and foot controls of this vehicle. If you have questions about personalizing your UXV450i, consult an authorized KYMCO dealer.

### **WARNING**

#### **POTENTIAL HAZARD**

Overloading your UTV or carrying loads or towing cargo improperly.

#### **WHAT CAN HAPPEN**

Improper loading and towing will cause changes to the vehicle's handling characteristics, and may lead to an accident.

#### **HOW TO AVOID THIS HAZARD**

Never exceed the stated load capacity of your UXV450i (as set forth in this Owner's Manual). Cargo should be properly distributed and secured. To aid in controlling your vehicle, reduce speed when carrying cargo or pulling a trailer, and allow greater distances for braking. Always follow the instructions and recommendations in this Owner's Manual for carrying cargo or pulling a trailer.

# PREVENTION

## OVERVIEW

When riding or driving an off-road vehicle, PREVENTION is the name of the game. "Had you only known" something could go wrong, you would have prevented it. If you do not take notice of the current terrain and its specific conditions before driving your UTV, you increase the risk of losing control of the situation. Using prevention techniques will help you forecast potential hazards before they result in injury to you or damage to your Side-by-Side vehicle.

Following the safety instructions and warnings in this manual will help you "P.A.S.S." the safety test. P.A.S.S. stands for "Prevention," "Active Driving," "Sound Judgment," and "Supervision." Remembering P.A.S.S. and what it stands for will help you have a safe and enjoyable drive every time you operate your UXV450i.

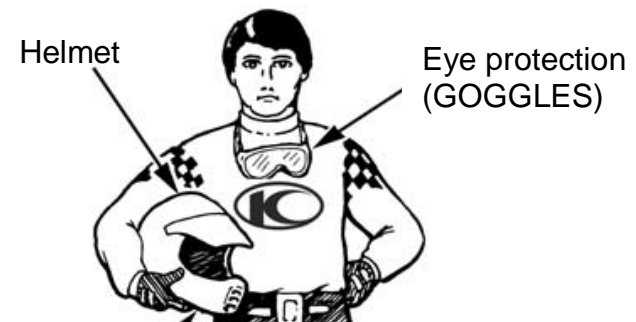
## PROPER CLOTHING AND GEAR

Always wear clothing suited to the type of activity you will be engaged in doing. Off-road recreation often requires special protective clothing which will both make you feel more comfortable and reduce the possibility of injury. It is important to dress correctly for riding your UTV in order to prevent injury. Practicing proper prevention is simple and may prevent the pain of injury and the inconvenience damage to your UTV. It is also important to take into account specific climate and weather conditions where you will be riding. Wear a liner under your helmet and layers of clothing during cooler weather and lighter, protective clothing when it is warmer. The following sections review the minimum protective gear you will need to wear during each drive.

## HELMET (head protection)

While your UXV450i is equipped with an overhead canopy, it cannot take the place of a helmet. A helmet is an essential piece of protective gear. A proper helmet can prevent a severe head injury. The best type of helmet is a full-face style which provides protection to the wearer's face as well as the head.

If you drop or damage your helmet, get a new one immediately. Your helmet may not protect your head from injury if it has cracks, fissures, or other damage to its outside or to the core padding and liner (which are designed to absorb the energy of an impact). Remember, even the best helmet is ineffective if it is not the proper size and the chin strap is not fastened.



## GOGGLES (eye protection)

Always wear eye protection, such as goggles, that completely surrounds your eyes to prevent getting dirt or other debris in your eyes. Do not depend on sunglasses or prescription glasses for proper eye protection. Glasses of this type are not recommended as they do not prevent objects from flying in through the sides, and the lenses may be damaged upon impact.

## PREVENTION

### CONDITION OF YOUR UXV450i

The second step in PREVENTION is checking the condition of your Side-by-Side vehicle before you drive it. Chances are good that you will be using your UXV450i in some rough terrain, and you do not want something to prevent you from enjoying your drive. Your best approach is to take steps to ensure that your vehicle is properly maintained so you can avoid equipment failure or a hazardous situation.

You need to check the following items on your UXV450i before every ride.

- 1 Brakes
- 2 Throttle (accelerator pedal)
- 3 Tires and Wheels
- 4 Fluids
- 5 Lights
- 6 Electrical
- 7 Controls and Cables
- 8 Chassis and Suspension
- 9 Miscellaneous Items

### Inspection of your UXV450i

An easy way to remember what items you need to check on your vehicle is by using the acronym "T-CLOC."

This acronym means:

<b>T</b> TIRES & WHEELS	<b>C</b> CONTROLS & CABLES	<b>L</b> LIGHTS & ELECTRIC	<b>O</b> OIL & FUEL	<b>C</b> CHASSIS
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Follow the guidelines on the following pages and in the rest of this Owner's Manual when inspecting your UXV450i.

## PREVENTION

### TIRES AND WHEELS

Correct tire pressure is crucial to the proper operation of your UXV450i. Consult the values listed below or the SPECIFICATIONS section of this manual for tire pressure guidelines. Incorrect tire pressure can cause poor handling, instability, and could cause you to lose control of your vehicle.

**Front wheel air pressure: 10 psi (0.7 kgf/cm<sup>2</sup>)**

**Rear wheel air pressure: 14 psi (0.98 kgf/cm<sup>2</sup>)**

Check:

1. Tire pressure
2. Tire surface (tread and sidewall)

While checking your UXV450i's tire pressure, inspect the tread and the sidewalls of the tires for cracks, cuts, or other damage. Immediately replace any tire that is damaged

### CONTROLS AND CABLES

With your vehicle's engine running and parking brake applied, check the transmission operation by shifting into each drive mode: forward, neutral, and reverse. After testing, shift back into neutral and turn the engine off before exiting the vehicle

Check:

1. Forward
2. Neutral
3. Reverse

### A. Brakes

Press down on the UXV450i's brake pedal. If the pedal does not feel firm, or if it feels soft or "weak," the brake system could be low on fluid or have a leak. If so, refer to the GENERAL MAINTENANCE section of this manual for instructions. Do not use your UXV450i unless the brakes are operating normally.

Test the parking brake to confirm that it locks the wheels into position, then disengage it to release the brake. The brakes on your Side-by-Side vehicle are essential for safety and could fail if they are not maintained properly.

Check:

1. Brake pedal
2. Parking brake

### B. Accelerator

Your UXV450i's accelerator pedal should have a free, smooth range of motion. If it seems to "stick" at any point, or does not return when released, refer to the GENERAL MAINTENANCE section of this manual for instructions. Driving your UXV450i with a sticking accelerator can cause you to lose control of your vehicle and may cause an accident. Do not drive your UXV450i if the accelerator action is not smooth and the pedal does not return after it is released.

Check:

1. Free, smooth range of motion
2. The pedal returns after it is released



# PREVENTION

## LIGHTS AND ELECTRIC

Turn your UXV450's low-beam on and off to make sure they work. At the same time, check that the taillight and brake lights work. Also, check the status/warning indicators (reverse, neutral, and lo beam) on the dash when you start the vehicle. Check the ignition switch operation. Do not drive your UXV450i unless all the systems are working properly.

Check:

1. Headlight low-beam
2. Taillight/brake
3. Light Status/warning indicators

Check:

1. Ignition switch

## OIL AND FUEL

Start with a full tank of gas before every drive, and make sure the oil is at the proper level. Don't forget to check for fluid leaks around the vehicle. Watch the engine temperature indicator on the dash to ensure the engine coolant level is adequate.

Check:

1. Gas
2. Oil
3. Fluid leaks

## CHASSIS

Grass, leaves and other debris can get entangled in your Side-by-Side vehicle's suspension and shocks. Keep the suspension arms, shock springs, and fenders clean and free of debris. Check the steering smoothness by rotating the steering wheel full-left and full-right. Make sure there is no binding, restrictions, free-play, or looseness in the steering components.

Check:

1. Suspension arms
2. Shock springs
3. Steering

## MISCELLANEOUS ITEMS

Inspect your UXV450i's air filter. Look for debris or damage that may indicate you need to replace it, as a clogged filter can prevent your engine from running. Check the battery terminals for tightness and corrosion. Also, be sure to tighten any loose parts, nuts, or bolts on the chassis.

Check:

1. Air filter
2. Battery
3. Tighten chassis fasteners, any loose parts

## PREVENTION

### FIRST-AID AND SURVIVAL

Before driving your UXV450i, you need to prepare for the unexpected. Emergencies and accidents are traumatic, but the situation can be worse if you are not prepared for it. During every drive, you should have the following items on board your vehicle:

- \* Tools\* Water
- \* Identification\* First Aid Kit

For drives that are longer in duration and distance, you should carry these additional items:

- \* Cellular Telephone\* Maps/GPS
- \* Emergency Kit with Flashlight and First Aid Kit

### TOOLS

Routine maintenance on your UXV450i will generally eliminate the need for emergency repairs. However, riding on rough terrain can cause nuts, bolts, and other fasteners to become loose. Carrying this Owner's Manual and the right tools on your vehicle can prevent an inconvenience from becoming a more serious problem.

Carry these items on your UXV450i:

1. Spare light bulbs
2. Duct tape
3. Rope
4. Spark plugs
5. Spare parts (fuses)
6. Tool kit

### WATER

Water is so important that you need to carry it regardless of the duration of your drive. Heat exhaustion and heat stroke can occur

suddenly and without warning. If you become dehydrated, you may find yourself physically unable to safely operate your vehicle.

### IDENTIFICATION

If something does happen to you, the emergency personnel will need to know who you are and whom to contact. It is possible you may be unable to give them that information. Put your I.D. in your pocket before you ride. Without it, you are anonymous.

### CELLULAR TELEPHONE

It may be necessary to make an urgent phone call or to alert friends and family where you are.

### MAPS/GPS (Global Positioning System)

Maps may be unnecessary when you are familiar with the area, but when you are driving on unfamiliar trails, it is good to know where you are, what is coming up, and how to find your way home.

### EMERGENCY KIT (with Flashlight & First Aid Kit)

You will need several items in your vehicle's Emergency Kit including a flashlight. Matches will come in handy if you need to start a fire to stay warm, and flares are useful for signaling for help. A first-aid kit is very important if an injury of some type should occur. your kit should include bandages, antiseptic spray, gauze and tape.

Carry these items on your UXV450i (or your person):

- |               |            |           |
|---------------|------------|-----------|
| 1. Flashlight | 2. Matches | 3. Flares |
| 4. First Aid  | 5. Kit     | 6. Money  |

# ACTIVE DRIVING

## OVERVIEW

"Active Driving" is the second part of "P.A.S.S." It involves an understanding of how your load weight, balance, gravity, and physical forces affect the handling of your UTV. For example, when you turn an automobile quickly into a sharp turn, your body is pulled to the outside of the vehicle by centrifugal force. While an automobile is comparatively stable and can tolerate harper turns, enough centrifugal force can cause an Side-by-Side vehicle to overturn. Understanding the limitations of a high ground-clear-ance, off-road vehicle is necessary to avoid rolling or flipping your UTV.

## BASIC OPERATING MANEUVERS

Active driving and basic maneuvers are the foundation of Side- by-Side vehicle recreation. Without basic skills, it is impossible to advance to the level of active driving.

These are your basic maneuvers:

- \* Entering the Vehicle
- \* Starting the Engine
- \* Starting a Cold Engine
- \* Braking/Stopping
- \* Shifting
- \* Parking

## ENTERING THE VEHICLE

Use care when entering your UXV450i. While your UXV450i is a four-wheel vehicle, you still must use care to not upset the chassis when mounting it.

To get seated:

1. Make sure the Parking Brake is engaged
2. From the left side of the vehicle, grab the left-side grab bar, and step into the vehicle with your right foot first
3. Slide your body into the seat and adjust it to a comfortable position
4. Always keep your feet planted on the floorboard
5. Fasten the seat beat

## STARTING THE ENGINE

Always start your UXV450i when it is at rest on a flat, level surface. Carbon monoxide poisoning can kill you, so never run your UXV450i's engine in an enclosed space.

Follow these steps to start your UXV450i:

1. Enter the vehicle, sit down and fasten the seat belt
2. Engage the parking brake
3. Move the Gear Shift Lever into NEUTRAL
4. Turn the Ignition Switch clockwise to the START position; then when the engine starts release it so it rotates back to the RUN position
5. Let the engine warm up

## ACTIVE DRIVING

An easy way to remember the starting procedure for your UXV450i is by using the acronym "BONE-C."

This acronym means:

<b>B</b> BRAKES LOCKED	<b>O</b> IGNITION SWITCH ON	<b>N</b> NEUTRAL TRANSMISSION	<b>E</b> ENGINE SWITCH	<b>C</b> AUTOMATIC CHOKE
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### STARTING A COLD ENGINE

■ NOTE: Do not press down on the accelerator pedal when starting a cold engine, as this will prevent the engine from starting easily.

1. Turn off all electrical accessories (lights, radio, etc.), then rotate the ignition switch key to the first position (RUN). Note that the "N" indicator will be illuminated on the dash display
2. Pull the choke knob all the way out and hold it in that position
3. Rotate the ignition switch key to the second position (START) to activate the starter motor. Do not hold the switch in the START position for more than eight seconds

#### CAUTION

Allow 30-seconds between starting attempts to allow the starting motor to cool. Continuous starting attempts will result in overheating and damage to the starting motor.

■ NOTE: If the engine is already warm or the weather is hot (95°F, 35°C or more) do not use the choke.

4. If the engine does not start, rotate the ignition switch key to the second position (START) for another eight seconds
5. Once started, allow the engine to warm up for approximately two to three minutes, or until the vehicle will accept throttle and accelerate smoothly

#### WARNING

Never run your vehicle in a closed area, such as a garage. Exhaust gases contain carbon monoxide, a colorless, poisonous gas. Breathing exhaust gasses leads to carbon monoxide poisoning, asphyxiation, and death.

## ACTIVE DRIVING

### BRAKING / STOPPING

Always allow plenty of room and time to stop your UXV450i safely. Be alert and prepared, as quick stops are inevitable. Whether you are stopping slowly or stopping quickly, follow these braking guideline.

1. Press down on the brake pedal with your foot to apply the brakes
2. If your wheels lock, release the brake pedal for a second, then apply the brakes again.
3. Avoid prolonged application of the brakes. Even maintaining minimal pressure on the brake pedal will cause the brake pads to drag on the brake rotor and may cause overheating of the brake fluid.

#### WARNING

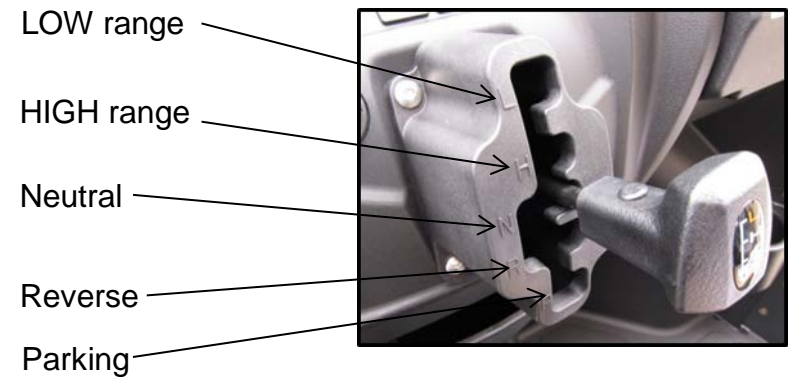
Prolonged and repetitive use of the vehicle's hydraulic brakes for high speed stops will cause overheating of the brake fluid and premature brake pad wear which can cause unexpected loss of braking ability.

#### WARNING

Use only KYMCO approved brake fluid. Never substitute or mix different types or grades of brake fluid, as unexpected loss of braking ability can result. Check the vehicle's brake fluid level and pad wear before each use. The loss of braking ability may result in severe injury or even death.

### SHIFTING

This KYMCO Side-by-Side vehicle is equipped with an automatic, dual-range transmission with reverse capability. To shift your UXV450i into gear or reverse, follow these steps:



1. To engage the HIGH range from neutral, move the shift lever forward.

- NOTE: The HIGH range is for normal driving with light loads.
- 2. To engage the LOW range from HIGH range, move the shift lever outward and forward.
- NOTE: The LOW range is for carrying heavy loads or trailer towing. Compared to HIGH range, the LOW range position provides slower speed and greater torque to the wheels.

## ACTIVE DRIVING

### CAUTION

Always shift the transmission into LOW range when operating on wet or uneven terrain, when towing or pushing heavy loads, or when using a plow. Failure to follow this caution may result in premature V-belt failure or other damage to the drive system.

1. To engage reverse gear from neutral, move the shift lever forward, outward and back to the "R" position.

### CAUTION

Never shift the transmission while your UXV450i is in motion. Should your vehicle be on a surface that is not level, engage the parking brake before shifting into another transmission range or into reverse.

## DRIVING THE VEHICLE

Before driving your UXV450i, take time to familiarize yourself completely with the operational information described in this Owner's Manual. Be prepared to practice operating the controls and driving the vehicle in a mild environment before driving the vehicle on more difficult terrain.

Follow this procedure to safely drive your UXV450i:

1. Sit in the driver's seat and fasten the seat belt.

2. Start the engine and allow it to warm up.
3. Press down on the brake pedal and then shift the transmission into gear.
4. Release the parking brake.
5. Keep both hands on the steering wheel, release the brake pedal and slowly depress the accelerator pedal to begin driving.

■ NOTE: Vehicle speed is controlled by the amount of throttle applied to the engine via the accelerator pedal. The transmission shifting is automatic.

6. Drive slowly-practice maneuvering and using the accelerator and brake pedals to control the vehicle's speed and stopping.

## PARKING

Parking your UXV450i involves the same guidelines as braking, as well as the following guidelines:

1. After the vehicle stops, shift the transmission into NEUTRAL.
2. Engage the parking brake.
3. Turn OFF the ignition switch
4. Always try to park your UXV450i on level ground. If you have to park on a hill, shift the vehicle's transmission into low gear.
5. Release your seat belt and exit the vehicle.

■ NOTE: If you have to park your vehicle on a very steep hill, engage the parking brake, shift the transmission into the LOW range, and block the downhill side of the wheels.

## ACTIVE DRIVING

### HOW TO HANDLE A SIDE-BY-SIDE VEHICLE (Active Driving Techniques)

Active driving involves being very aware of your vehicle's dynamics as you maneuver it. You must learn how speed affects turning and the stability of your UTV. Unlike a motorcycle or an ATV where you can lean and shift your weight to aid in control of the vehicle, this type of vehicle requires balance between speed and steering. Your safety depends on using safe driving techniques.

Safe driving techniques include:

- \* Turns
- \* K-Turns
- \* Sidehilling/Transversing
- \* Crossing Obstacles
- \* Driving Uphill
- \* Driving Downhill
- \* Swerving

### TURNS

Many off-road vehicle accidents happen during turns. If you don't understand turning techniques, you can lose control of your vehicle by losing traction, plowing, or tipping. Use this driving method for turns:

1. Ease off the accelerator as you approach the turn to slow down
2. Slowly rotate the steering wheel into the direction of the turn
3. Gradually increase your speed as you come out of the turn

■ NOTE: If the terrain you are driving on is not level, you must significantly reduce your vehicle speed.

### WARNING

**If your UTV's tires are coming off the ground during a turn, you are driving the vehicle at too high of a speed to initiate a turn. Reduce speed in these situations as a vehicle rollover could cause serious injury or death.**

### DRIVING UPHILL

Many off-road vehicle accidents also happen while driving on hills and as a result of the vehicle rolling or flipping. Use extreme caution when driving your UTV on hills, and use this method for driving uphill.

1. Accelerate before you start climbing; then maintain a steady pace
2. If you lose speed, carefully apply more throttle. Be prepared to release the accelerator (so your front tires won't lift), OR
3. If that doesn't work and you still have forward motion and the terrain permits, do a U-turn, go back down, and try climbing again, OR
4. If you have lost all forward motion, use a K-turn maneuver to go safely down the hill

**NEVER DRIVE  
YOUR UXV450i UP  
OR DOWN HILLS  
STEEPER  
THAN 15°**



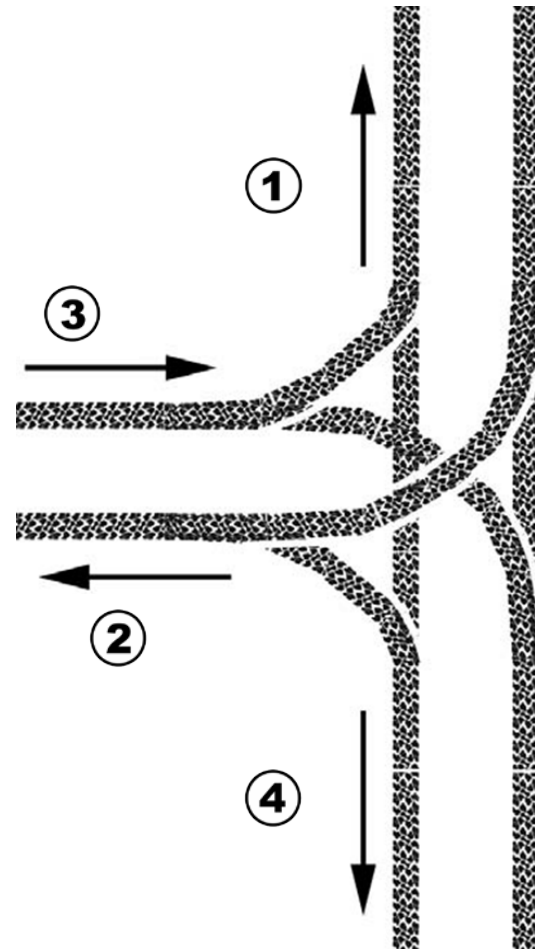


## ACTIVE DRIVING

### K-TURNS

Use the K-turn maneuver if you accidentally stall your UTV while driving uphill. Using a K-turn will enable you to point the vehicle downhill in a controlled manner and prevent it from rolling backwards. Use the turning method on this page for K-turns:

1. Stop where you are ①, apply the parking brake, and shift the transmission into neutral.
2. Shut off the vehicle's engine.
3. Exit the vehicle on the uphill side.
4. If you are to the left of the vehicle, rotate the steering wheel all the way to the left.
5. Release the parking brake, but lightly press on the brake pedal so you can control the vehicle rolling.
6. Let the vehicle roll slowly to your right side until it faces slightly downhill ②
7. Reengage the parking brake.
8. Reenter the vehicle from the uphill side ③.
9. Start the engine and follow the method for riding downhill ④.





## ACTIVE DRIVING

### **DRIVING DOWNHILL**

Success in driving downhill depends on how familiar and skilled you are with using your vehicle's brakes. Use care to balance braking force and downhill speed so you don't lose control and flip your vehicle over. Use this method for riding downhill.

1. Select a low gear; stay out of neutral.
2. Lightly apply the brakes and use very little throttle (accelerator pedal).

### **SIDEHILLING / TRAVERSING HILLS**

Sidehilling requires advanced off-road vehicle driving skills, as the terrain can be difficult and unpredictable. Whether your skills are advanced or not, try to avoid this kind of driving.

If you're in a situation where you absolutely have to drive sidehill with your vehicle, use this driving method:

1. Keep your vehicle's speed low and consistent
2. Steer as if you are driving into the hill
3. If your vehicle feels like it may tip over, rotate the steering wheel downhill. If that is not possible because of the terrain or other conditions, or if it just does not work, stop and get off the vehicle. Set the parking brake and exit your vehicle on the uphill side.

### **SWERVING**

Swerving is an emergency maneuver required to avoid an obstacle, but is similar in action to a turn. Swerving differs from a turn as it involves slight acceleration during the turn.

Use extreme caution accelerating as you swerve so you can maintain better control of your vehicle. If you are in a situation where you feel you must swerve your vehicle, use this driving method:

1. Ease off the accelerator as you approach the obstacle
2. Rotate the steering wheel, and at the same time accelerate once you reach the apex of your projected turn
3. Avoid using the brakes until the obstacle avoidance swerve is complete and you have regained full control of your vehicle

### **CROSSING OBSTACLES**

Crossing obstacles is dangerous, and even experienced off-road vehicle operator should avoid this practice if possible. Riding over logs, rocks, and ruts means you must combine all the active driving skills into one big motion. Your Side-by-Side vehicle will respond differently for different obstacles (logs, ruts, etc.), but these are general guidelines for overcoming obstacles:

1. Keep the vehicle's speed very low - less than 5 MPH.
2. Approach the obstacle head-on.
3. Accelerate lightly when the front tires make contact with the obstacle.
4. Release the accelerator when the front tires clear the obstacle.
5. Keep your body loose to absorb any shock from going over the obstacle.

# ACTIVE DRIVING

## TIPS

Driving a UTV and driving an automobile have some similarities; however, there are certain situations that require special attention:

- \* Reversing
- \* Parking on a Hill
- \* Crossing Water
- \* Riding in Cold Weather
- \* Stopping the Vehicle
- \* Skidding or Sliding
- \* Stalling on a Hill
- \* Crossing Roads
- \* Stopping the Engine

## REVERSING

Remember, it is difficult to see behind you as you backup your UXV450i.

1. Proceed slowly, using a slight amount of throttle (accelerator)
2. Keep your steering wheel straight.
3. Avoid backing down hills; use a U-turn or K-turn to turn around

## SKIDDING or SLIDING

Be careful: it's easy to lose control of your UTV driving through sand, ice, mud, or water. Follow these suggestions on controlling a skid or slide:

1. Turn your steering wheel into the direction of the slide
2. Avoid using the brakes until you are out of the skid

## PARKING ON A HILL

In the rare case you need to park your UTV on a hill:

1. Keep the UTV's transmission in gear
2. Engage the parking brake
3. Find something to block the rear tires

## STALLING ON A HILL

If you use the proper method for riding your UTV uphill, you should

avoid this situation. If you stall on a hill, follow these guidelines:

1. If your UTV has not started rolling backwards yet, follow the procedure for the K-turn
2. Gently apply the brakes then engage the parking brake
3. When the vehicle comes to a stop, perform a K-turn
4. If your UTV continues to roll backward, exit the vehicle immediately on the uphill side.

## CROSSING WATER

Your UXV450i can only handle water up to its footrests. Crossing water deeper than that risks engine damage and/or personal injury. Avoid fast moving water as the tires fitted to a UTV can be buoyant, so if the water is too deep, your vehicle may float.

### CAUTION

Riding your ATV through water deeper than the footrests may lead to severe engine damage due to water ingestion.

## ACTIVE DRIVING

■ NOTE: Engine damage caused by water ingestion or immersion will not be covered by your KYMCO warranty.

1. Physically check the depth and current of the water, especially if you can't see the bottom. Look for boulders, logs, or other submerged obstacles that could impede your crossing
2. Keep your speed steady and slow
3. Make sure you have a way out on the other side of the water
4. If you get stuck in the sludge or mud, try rocking your UTV from side to side to free it
5. Once you've cleared the water, briefly apply the brakes to make sure they function

## CROSSING ROADS

Crossing paved roads can be dangerous and should be avoided. However, if you must cross a road follow these guidelines:

1. Before crossing, stop completely on the shoulder of the road
2. Check both directions for oncoming traffic
3. Do not cross near a blind corner or intersection because the lack of visibility is dangerous
4. Ride straight across the road to the opposite shoulder
5. Be aware that since your UTV could stall, give yourself enough time to cross and get off the road
6. Assume that oncoming vehicles cannot see you, and if they do, they may not be able to predict your actions

7. It is illegal to cross public roads in some states and communities. Become aware of your local laws

## DRIVING IN COLD WEATHER

■ NOTE: Check that all of the controls move freely. Make sure that the floorboards, gearshift lever, accelerator and brake pedals are free of ice and snow.

### WARNING

For your personal safety, it is very important to wear cold-weather clothing that will be appropriate for the coldest anticipated temperatures.

1. With the transmission in neutral, move the UTV forwards and backwards to see if the wheels roll freely. If the UTV will not roll, the tires may be frozen to the ground or the brake pads may be frozen to the brake rotors or drums
2. If the tires are frozen to the ground, pour warm water around them to melt the ice

### CAUTION

Before riding, manually rock the UTV forwards and backwards to make certain that all the wheels roll freely.

3. If the brakes are frozen, move the UTV to a warmer area to thaw out the brakes

## ACTIVE DRIVING

### **WARNING**

Do not attempt to free frozen brakes by pouring warm water on the brake pads, brake rotors or drums.

- **NOTE:** After the brakes thaw, dry them by applying them several times while riding slowly.
- **NOTE:** After riding through water, mud, snow, or slush, it is important to dry the brake system before parking your UTV.

### **WARNING**

**Ride slowly and be extra careful when riding on snow-covered or ice-covered terrain. Always be alert to changing terrain conditions when operating your UTV in cold or wet weather.**

4. Practice driving in an open snow-covered or ice-covered area at slow speeds before driving on snow-covered or ice-covered trails.
5. Pay attention to how your UTV responds to steering and braking on the type of terrain you will encounter on your trail ride.

### **STOPPING YOUR UTV**

To stop your ATV, first release the accelerator pedal, then de-press the brake pedal smoothly.

### **STOPPING YOUR UTV'S ENGINE**

To stop your UTV's engine, turn the ignition switch key to the OFF position.

- **NOTE:** Remember to turn the ignition switch to the OFF position if your UTV is not going to be ridden so you will not deplete the battery's energy.

# SOUND JUDGMENT

## OVERVIEW

Human beings are not invincible: we need to use sound judgment to keep ourselves and others safe from harm. Knowing that the first "S" in "P.A.S.S" stands for "Sound Judgment" means you need to use yours when you operate your UTV.

Do you consider yourself to be pretty conservative, or are you a heavy risk-taker? Before continuing with this section of the manual on sound judgment, check your RISK FACTOR by completing this short survey:

1. Do you drive over the speed limit?

1	2	3
Never	Sometimes	Often

2. Are you more daring around your friends than when you are alone?

1	2	3
Never	Sometimes	Often

3. Do you drive your automobile when the gas gauge is on empty?

1	2	3
Never	Sometimes	Often

4. Do you feel that no matter what you do, you won't get hurt?

1	2	3
Never	Sometimes	Often

5. Do you drink or use drugs before you drive your automobile?

1	2	3
Never	Sometimes	Often

6. Do you drive your automobile even if it has a major problem with the brakes, tires, or engine?

1	2	3
Never	Sometimes	Often

7. Do you thrive on the adrenaline rush you get from speeding and dangerous situations?

1	2	3
Never	Sometimes	Often

8. Do you hurt yourself because you try to do things that are beyond your abilities?

1	2	3
Never	Sometimes	Often

9. Do you tailgate other drivers when you think they're driving too slow?

1	2	3
Never	Sometimes	Often

10. Do you ignore weather reports before you do outside activities like swimming, camping, fishing, or boating?

1	2	3
Never	Sometimes	Often

Add the totals from survey questions 1 through 10, the total points indicate your **RISK FACTOR**.

0 to 15 points indicates that you are fairly conservative. You probably make safe choices that will help you avoid hurting yourself and the people around you.

16 to 20 points indicates that you can alternate between conservative and risky choices. Depending on your mood or whom you're with, the choices you make may help you or hurt you.

21 to 30 points indicates that you are taking risks. You should reconsider a lot of the judgments you make. You probably put yourself in dangerous situations that could potentially hurt yourself and the people around you.

## SOUND JUDGMENT

### **ENVIRONMENT**

The environment that you will operate your UTV in is often harsh and sometimes dangerous if you don't take proper precautions.

### **WEATHER**

You need to consider the weather when you participate in an outdoor activity such as driving an UTV. It is dangerous to drive your UTV when the weather is bad or could potentially become bad. Before starting out on your UTV, check the weather forecast for the location and duration of your drive.

### **TERRAIN**

Always pay close attention to the terrain you're on, even if it is in an area familiar to you. Do not assume that the landscape you're used to doesn't change. Changes to landscape can happen at any time: fences can be constructed and excavations dug in a short period of time. Weather, climate, and development take their toll; as well as erosion and other changes that can affect your UTV's ability to drive smoothly and surely.

Because terrain can constantly change in configuration, you may not know how it has changed until you get there. Whether it's familiar or not, check out your surroundings before and during your drive.

### **NIGHT DRIVING**

It is best to avoid driving your UTV at night when visibility is limited. With little to no light, it is difficult to see what is around you.

If you must drive at night, proceed slowly and never ride at a speed that would prevent you from reacting to something that could come up in the limited view of your UTV's headlights.

### **PAVED SURFACES**

Avoid driving your UTV on paved surfaces. Your UTV was not designed for use on pavement and its handling will become more difficult and unpredictable than when riding on non-paved surfaces.

# SOUND JUDGMENT

## DRIVING ON TRAILS

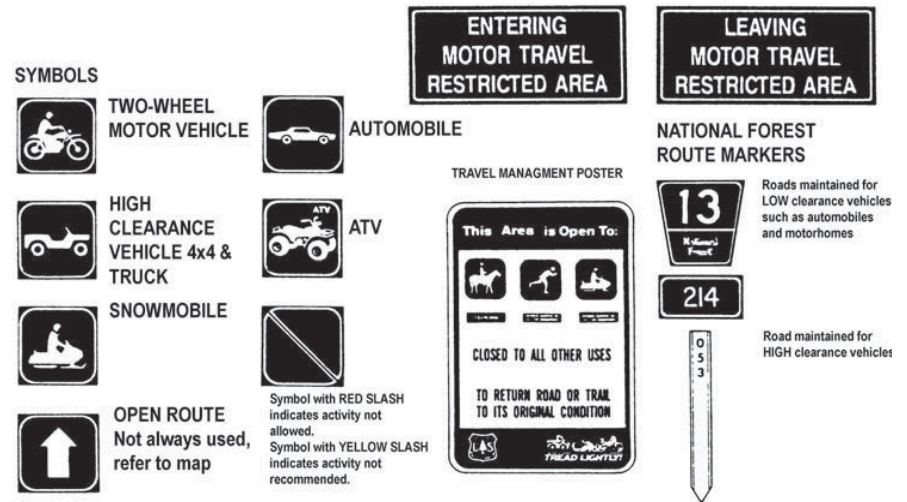
Use sound judgment when driving your UTV on trails. You should only drive on trails that suit your driving ability. If the trail is very rugged, it may be best to find another route to your destination.

Make yourself visible to others by using your UTV's headlights and taillights. If you stop, pull completely off the trail in a way to protect yourself, your passenger, your UTV and the environment.

Outsloped trails (trails that slant to allow rain to run off) make driving on trails more challenging. To drive on outsloped trails, keep the UTV steered towards the uphill of the slope. Proceeding slowly with your vehicle aimed towards the slope will help you from sliding off the trail.

Be aware of the rules and the laws that govern the area in which you will be driving your UTV. Learn which trails you can legally and safely drive on and who else might be on those trails. The signs shown on this page are examples of those currently used in many areas to designate trail types and restrictions.

## TRAIL SIGNS





## SOUND JUDGMENT

### **THOSE AROUND YOU**

People do all kinds of things that you can't predict or control. Be aware of others and their behavior, as it can affect your enjoyment and safety when you drive your UTV.

### **DRIVING COMPANIONS**

Always leave a lot of space between you and other vehicles, especially in dusty and dirty conditions when it is difficult to see the vehicles in front of you stopping or avoiding obstacles.

Driving with a group of UTV riders is not the same as driving your UTV alone. You must be more alert, as you cannot predict the actions of the other drivers. Other drivers can also be a distraction keeping you from properly scanning the terrain on which you are driving.

### **MULTIPLE PASSENGERS**

You should never carry more than one passenger on your UTV. Multiple passengers are prohibited, as it is unsafe for a number of reasons. One critical reason is the extra weight of the extra passenger, even a small person, makes the UTV difficult to control.

### **OTHER VEHICLES**

Depending on where you're driving, you might encounter other UTVs, ATVs, motorcycles, bicycles, or large motor vehicles on roads and trails. Respect the presence of automobiles and other vehicles if you're crossing roads or riding in public areas.

Take steps with your riding apparel choices and your actions to make yourself very visible. Remember, if you can't see other vehicles coming, that means they cannot see you.

### **HIKERS**

Even though your UTV can take you to remote areas, don't assume that you are alone. Many people participate in hiking, camping, and other outdoor activities, and these people may be in remote areas where you would not expect them. For your safety and theirs, be alert at all times.

### **EQUESTRIANS**

Many people enjoy horses. The trails that are enjoyable for UTV recreation are also well suited for equestrian riding. Watch for horseback riders and provide them a wide berth so you do not startle their horses. Approach slowly and if you see the horse react to your UTV's presence, stop immediately and turn off the engine until the horse and rider have left the area.

### **ANIMALS AND NATURE**

Respect the outdoors that your UTV enables you to enjoy. Don't use your UTV to chase animals or birds. Drive around young trees rather than over them. Keep clear of streams and ditches with standing water.

## SOUND JUDGMENT

### EQUIPMENT

The last thing you would expect is that your KYMCO UTV would break down in the middle of a field. KYMCO products are usually so reliable that sometimes you forget that your UTV, like any machine, has service needs and usage limitations.

### UTV MAINTENANCE

You have to maintain your UTV for your safety, its operational integrity and to protect your investment. The General Maintenance section of this Owner's Manual tells you how to take care of your UTV. If at any time abnormal noises, vibrations, or improper operation of any component on your UTV is detected, DO NOT OPERATE YOUR UTV. Take your UTV to an authorized KYMCO dealer for inspection, adjustment or repair.

### CARGO LIMITATIONS

One of the reasons why multiple passengers are prohibited on UTVs is because their presence disrupts the weight and balance of the vehicle. Cargo will do the same if it weighs too much or is positioned improperly. Limit your UTV to the load capacity ratings identified in the chart on the following page. So if you, your passenger and your load weighs over 793 lb (360 kg), leave some of that extra cargo at home. The combined weight limit, including you, your passenger, your UTV's bed cargo, and your trailer, is a specific amount, so consult the UTV Load Capacity Ratings Chart and adjust your load accordingly.

Cargo has such a significant affect on UTV handling that you need to adjust your speed to match your load. Even on level ground, you should keep your UTV's speed below 10 MPH (16 kph) if you are towing a trailer. Avoid uneven terrain when towing a trailer. Do not forget that your braking distance is going to increase as you carry more weight or if you tow a trailer.

**Think about these factors when dealing with cargo:**

1. Cargo bed weight limit
2. Trailer weight limit
3. Weight distribution
4. UTV speed

### PERSONAL CHOICES

A safe, enjoyable UTV drive is dependent on many personal choices. A UTV, like all motorized vehicles, can be dangerous to operate if you choose to ignore safety precautions, take unnecessary chances, or ride beyond your ability or your machine's capability. Don't allow the thrill of freedom or adventure to affect your ability to make good, safe choices.

# SOUND JUDGMENT

## LOAD CAPACITY RATINGS

KYMCO UTV Load Capacity Ratings	
<i>Item</i>	<i>Specifications</i>
Max Load Capacity .....	793 lb. (360 Kg)
Cargo Bed - maximum .....	418 lb. (190 Kg)
Tongue Weight .....	35 lb. (16 Kg)
Tongue & Cargo Bed Weight - maximum .....	529 lb. (240 Kg)
Towing Capacity .....	1212 lb. (550 Kg)

**Max Load Capacity** - Total weight of rider, passenger, tongue weight, and cargo bed load.

**Cargo Bed Weight** - Total weight for items in the cargo bed

**Tongue Weight** - Weight on trailer hitch.

**Tongue and Cargo Bed Weight** - Total weight on trailer hitch plus the cargo bed load.

**Towing Capacity** - Total weight of trailer and all cargo in the trailer.

### ACCESSORY INSTALLATION

When installing accessories on your UTV, make sure to read and carefully follow the instructions provided with the items.

■ **NOTE:** Use extra caution when operating your UTV with additional loads such as accessories and/or cargo. Handling of your UTV may be adversely affected. Reduce speed when adding additional loads.

### WARNING

#### POTENTIAL HAZARD

Overloading your UTV or carrying loads or towing cargo improperly.

#### WHAT CAN HAPPEN

Improper loading and towing could cause changes in your UTV's handling characteristics, which could lead to an accident.

#### HOW TO AVOID THIS HAZARD

Never exceed the stated load capacity of your UXV450i (as noted in this Owner's Manual). Cargo should be properly distributed and securely attached. To aid in controlling your UTV, reduce speed when carrying cargo or pulling a trailer, and allow greater distances for braking. Always follow the instructions and recommendations in this Owner's Manual for carrying cargo or pulling a trailer.

## SOUND JUDGMENT

### ALCOHOL AND DRUG CONSUMPTION

Alcohol is related to over 30% of the motor vehicle accidents in the United States. It is extremely dangerous to drink alcoholic beverages and drive a UTV. Alcohol, even in moderation, severely impairs your ability to control an UTV.

#### Substances to avoid when driving:

1. Alcohol
2. Over-the-counter or prescription drugs
3. Illegal/mood altering drugs

Be aware that prescription and over-the-counter medications can cause drowsiness and impaired judgment. A wide range of medications, including allergy, cold, flu, and headache medications, will affect your physical abilities and judgment.

Your physical size and weight will not minimize the effects of even one antihistamine tablet, so use extreme care if you need to take medications before you plan to drive your UTV.

Illegal drugs not only inhibit your judgment and ability to drive your UTV, but there can be severe legal consequences if you are confronted by law enforcement authorities. The same is true for excessive alcohol use, so never use alcohol or drugs before or during your UTV drive.

### THE EFFECTS OF ALCOHOL\*

#### *The Number of Drinks that Impair Mental and Physical Abilities*

- |                         |  |
|-------------------------|--|
| <b>1 to 2 DRINKS</b>    | Mental processes such as restraint, awareness, concentration, and judgment are affected, reaction time slowed; and inability to perform complicated tasks. |
| <b>3 to 4 DRINKS</b>    | Depth perception, glare recovery, eye movement, and focus affected; decreased judgment and control.  |
| <b>5 or more DRINKS</b> | Coordination deteriorates; loss of critical judgment, and impaired memory and comprehension.   |

*\*According to the ATV Safety Institute*

# SOUND JUDGMENT

## YOUR PHYSICAL CONDITION

Being physically exhausted is like being intoxicated. When fatigued, you will not be able to perform detail-oriented tasks and your coordination will be affected. This will severely inhibit your ability to drive your UTV safely.

## RECKLESS DRIVING

Drivers who have a UTV accident when speeding have a significant chance of being hospitalized from the resulting injuries. The faster you drive your UTV, the more likely a crash can injure your head and internal organs. Avoid stunts and uncontrolled riding such as wheelies and jumps that reduce your control and can create greater injuries or even death if you crash your UTV.

## LAWS AND REGULATIONS

Any law enforcement officer will tell you that ignorance of the law is no excuse for improper behavior. Before operating your UTV, check out your local, state, or provincial off-road laws. Before starting a drive, make sure that you can legally drive in the proposed area. Be a good off-road citizen: Illegal or irresponsible driving will cause authorities and landowners to close the area.

## GROUP BEHAVIOR

It is a proven psychological fact people will do irresponsible and riskier things in a group that they would never consider doing when they are alone. When you are driving your UTV with other

drivers use extra care and sound judgment to make sure that the activities do not get out of hand. Being wise and responsible is the best way for you and your riding friends to avoid injury or even death from a UTV accident.

## SIPDE

Individually, the safe behaviors and sound judgments listed in this manual will have limited impact, but combined they become the foundation of safe and responsible UTV use. When you're paying attention to your physical condition, when you're monitoring the movements of your UTV, and when you're constantly evaluating your environment you are practicing SIPDE.

This acronym means:

<b>S</b> SCAN / SEARCH	<b>I</b> IDENTIFY HAZARDS	<b>P</b> PREDICT WHAT WILL HAPPEN	<b>D</b> DECIDE WHAT TO DO	<b>E</b> EXECUTE THE DECISION
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# SUPERVISION

## **OVERVIEW**

When you allow others to drive your UTV you become responsible for their safety and their actions. The driving ability of your guests, their awareness of proper UTV operation, the terrain, and the condition of your UTV must be factored into your decision to allow others to operate your UTV. Additionally, you can be legally responsible for the actions your guests may take while driving your UTV.

## **TAKING RESPONSIBILITY**

The final letter in the "PASS" acronym stands for SUPERVISION. As outlined in this manual, there are a number of elements for enjoyable and safe UTV driving and ownership. As the owner of a UTV, you are directly responsible to supervise its use.

## **INEXPERIENCED/UNTRAINED DRIVERS**

Never let anyone who has not been educated in proper and safe UTV operation to drive your UTV. Even guests who own an UTV or who have prior driving experience may not have the foundation of a formal training course that would have educated them about safe UTV operation. As the vehicle owner it is your responsibility to keep uneducated guests (especially children or those who lack a automobile operator's license) out of your UTV

## **EXPERIENCED/TRAINED DRIVERS**

When anyone borrows your UTV, you become responsible to supervise them and control their actions. Before a guest drives your UTV, have them take a UTV training course and have them read this Owner's Manual. As the owner of the UTV, you are responsible for their training.

Not every UTV operates in the same way or has the same handling characteristics that your vehicle possesses. The seating position may be different, the controls may differ, and the power delivery will vary from brand and model of UTV. So regardless of how much experience your guests may have with UTVs in general, they don't have experience with your vehicle. Spend time with your guests to make sure they are familiar and comfortable with the operation of your UTV before you let them use it.

## SECTION 2 - OPERATION & MAINTENANCE PREFACE

Thank you for choosing this quality KYMCO UTV. It has been designed and manufactured to provide you with reliable and enjoyable operation. This Owner's Manual should be considered a permanent part of your UTV and must remain with the vehicle in the event of a resale. If the UTV changes ownership, contact the KYMCO USA Customer Service Department for information on how to register the new owner.

Section 2 of this manual was prepared by the engineers and service staff of KYMCO to provide you with the information required to operate and maintain your UTV. This section also covers rider-related instructions, as well as service and storage instructions. If your UTV ever requires repairs or service, contact an authorized KYMCO dealer for professional service.

As the owner and driver of a KYMCO UTV, you should become thoroughly familiar with your vehicle's basic operation, maintenance and storage procedures. Please read and understand the entire Owner's Manual before operating your KYMCO UTV to ensure safe and proper use. Always operate your UTV within your level of skill and current terrain conditions.

At the time of publication, all of the information and illustrations in this manual are technically correct. Some illustrations herein are used to best represent a certain procedure or item and are not intended to depict actual conditions. Because KYMCO is constantly refining and improving its products, there may be differences between the vehicle images and the text depicted in this manual and your UTV. As such, no retroactive obligation to the product is available.

### PARTS AND ACCESSORIES

**When you need replacement parts, oil, or accessories for your KYMCO UTV, be sure to use only GENUINE KYMCO PARTS, OIL, AND ACCESSORIES. Genuine KYMCO parts, oil, and accessories have been engineered and approved to meet the standards and requirements of your KYMCO UTV. For a complete list of accessories, refer to the current KYMCO Accessory Catalog. To aid in service and maintenance procedures on this vehicle, a Service Manual and an Illustrated Parts Manual are also available from your local KYMCO dealer.**



# UXV450i Platform SPECIFICATION\*

## SPECIFICATION

### ENGINE & DRIVE

Engine Type .....	Four-Cycle/Water Cooled SOHC
Bore x Stroke .....	89 x 71.2 mm ( 3.50 x 2.80 in)
Displacement .....	442.9cc
Compression Ratio .....	9.1:1
Ignition Type .....	DC/ECU
Spark Plug Type .....	NGK CR7E
Spark Plug Gap.....	0.8 mm (0.03 in)
Brake Type.....	Hydraulic Front&Rear Unified with Parking brake
Throttle Body Venture Diameter .....	38 mm
Air Filter Type.....	Sponge Element (oiled)
TransmssionType .....	V-belt Automatic
Clutch Type.....	Wet-Centrifugal Automatic
Primary Drive .....	V-belt
Secondary Drive .....	Shaft Drive

### CHASSIS

Length (Overall) .....	2727mm ( 107.36 in)
Height (Overall) .....	1890 mm (74.41 in)
Width (Overall) .....	1440 mm ( 56.69 in)
Dry Weight (Approx) .....	1047 lb(475 kg)
Front Suspension Travel.....	108 mm (4.25 in)

Rear Suspension Travel.....	91.1 mm (3.58 in)
Wheelbase.....	1829 mm (72.0 in)
Tire Size (Front).....	25x 8-12
Tire Size (Rear) .....	25x10-12
Tire Inflation Pressure .....	F:10.0 psi (0.7kgf/cm2) R:14.0 psi (0.98 kgf/cm2)

### FLUIDS

Gas Tank Capacity .....	8.32 U.S. Gal. (32 L)
Gasline(Recommended) ...	87 Octane Regular Unleaded
Engine Oil Capacity .....	0.63 U.S. Gal. (2.4 L)
Differential Capacity .....	F: 9.12 fl oz (270 ml)SAE#80 R:8.45 fl oz (250 ml)SAE#80

### ELECTRICAL

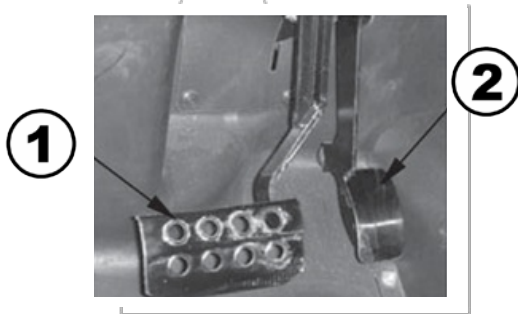
Battery .....	12V18AH
Charging Output .....	310W@5,000RPM
Headlight.....	12V35W (2)
Taillight/Brakelight .....	12V5W/21W (2)
Main fuse .....	30A
Fan Motor fuse .....	10A
Ignition fuse .....	15A
Light fuse .....	10A

\*Specification subjected to change without notice.

# FEATURES & CONTROLS

## BRAKE PEDAL

Your KYMCO UTV is equipped with front and rear hydraulic brakes that are activated simultaneously by the brake pedal. Depress the brake pedal ① to slow or stop the vehicle.



## ACCELERATOR PEDAL

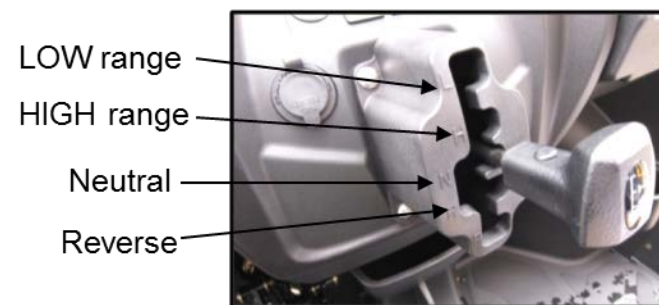
### (Throttle pedal)

Push the accelerator pedal ② down to increase the engine's speed. Spring pressure will return the pedal to its original position when foot pressure is released.

- NOTE: Always check to make sure the accelerator pedal returns normally before starting the engine. Make sure there is adequate accelerator pedal free play before starting the engine.

## GEAR SHIFT LEVER

To change gears, stop the vehicle and allow the engine to idle, then move the lever into the desired gear. Do not attempt to shift gears if the engine speed is above idle or if the vehicle is moving.



## FEATURES & CONTROLS

- **NOTE:** Always turn off the engine, place the transmission in gear and engage the parking brake whenever you leave the UTV unattended.
- **NOTE:** Maintaining proper gear shift linkage adjustment is required for proper transmission function. Contact your KYMCO dealer if you experience any shifting difficulty.

### PARKING BRAKE

Your KYMCO UTV is equipped with a hand-operated parking brake. When engaged the parking brake will lock all four wheels on the vehicle.

#### Engaging the Parking Brake

To engage the parking brake, turn the handle ③ left.

Use the following procedure to verify that the parking brake has locked the wheels when engaged:

1. Pull the parking brake handle outward until it stops and locks in place
2. Attempt to push the UTV

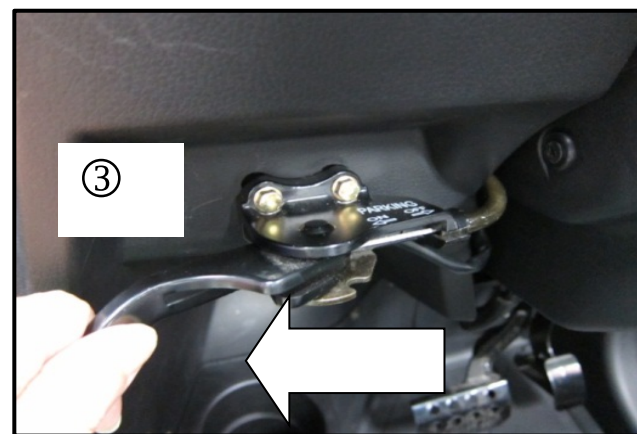
- **NOTE:** The parking brake must lock the UTV's wheels. If it does not, take your UXV450i to an authorized KYMCO dealer for service.

#### Releasing the Parking Brake

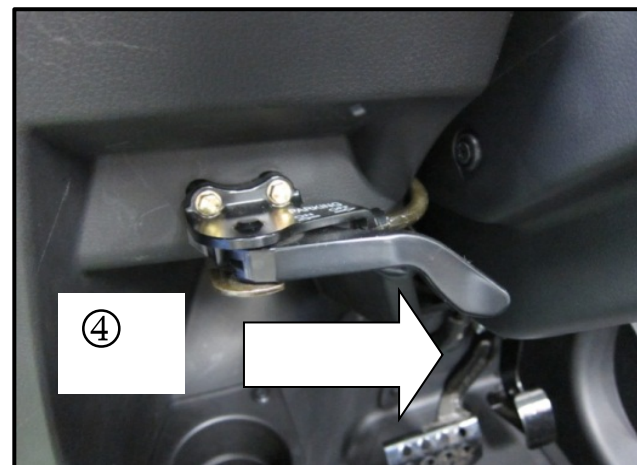
To release the parking brake, turn the handle ④ right.

### ⚠ WARNING

Always make sure that the parking brake has been disengaged before operating your UTV. An accident can result if the parking brake is left engaged while the UTV is driven. Never rely on the parking brake as the sole means of securing the UTV when parking on a hill. Always block the downhill side of the UTV's wheels or park the UTV perpendicular to the hillside.



(Parking Brake engaged)



(Parking Brake released)

## FEATURES & CONTROLS

### FUEL TANK FILLER

To add fuel to your UXV450i, follow this procedure:

1. Use the glove box/fuel cap to unlock the cap
  2. Turn the counterclockwise to unlock the cap
  3. Once unlocked, lift the cap from the fuel filler neck
- NOTE: Be careful where you place the removed fuel tank cap so dirt or other debris does not get onto the cap and ultimately into the fuel tank where it can contaminate the gasoline.

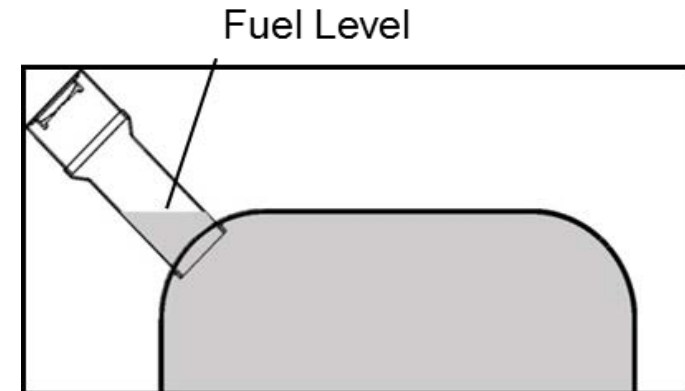
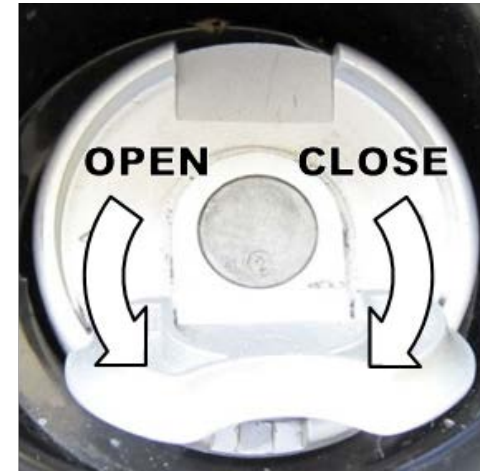
#### WARNING

Do not add gasoline to the vehicle if the engine is running. Stop the engine and turn off the ignition before fueling. Gasoline is highly flammable and should be kept away from sparks, flame and other ignition sources.

#### CAUTION

Do not overfill the fuel tank. Stop the fuel level at the reference plate near the top of the fuel filler neck. Overfilling the fuel tank can cause gasoline to contaminate the vehicle Evaporative Emission System and may cause poor running. If this occurs, contact your KYMCO dealer.

4. To replace the fuel filler cap, press it back into place on the fuel filler neck
5. Rotate the key clockwise to "lock" the cap into place.

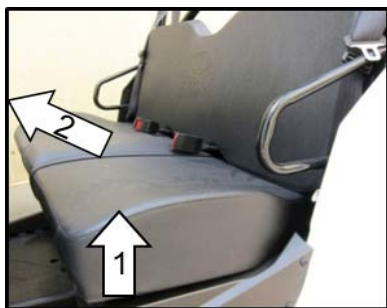


## FEATURES & CONTROLS

### SEAT REMOVAL

The seats on your UTV450i can be removed from the chassis for cleaning or service.

To remove the seat, pull up on the front edge of the seat to release its location pins from the chassis grommets.



To install the seat, slide the seats' tabs into the corresponding slots on the chassis and then press the front edge down until the location pins are firmly seated into the grommets on the chassis.

### SEAT BELTS

Your UXV450i is equipped with lap-shoulder seat belts for the driver and the passenger. The seat belts are similar to the type fitted to most automobiles and should be used by the driver and passenger each time the UTV is driven.

To secure the seat belt, insert the end tab into the latch until you feel the latch mechanism "click" as it secures the tab.

To release the seat belt, press the release button on the seat belt latch and pull the tab from the latch.

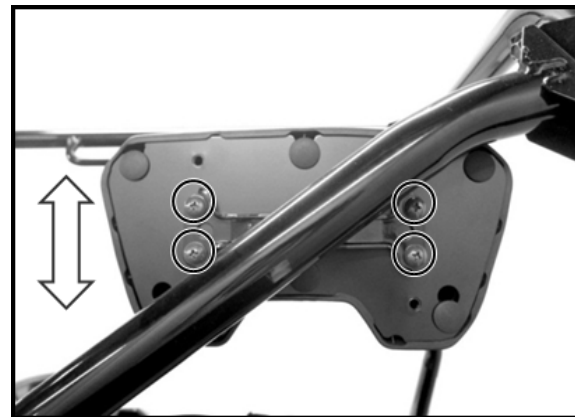
### WARNING

Never drive your UTV without fastening your seat belt. Passengers should wear their seat belt any time the vehicle is in motion. The shoulder portion of the seat belt is designed to cross diagonally on the driver's or passenger's torso. Failure to use the seat belt, or to use it properly, may cause the driver or the passenger to be ejected from the vehicle causing serious injury or death.

### HEAD CUSHIONS

Your UXV450i has head cushions for the driver and the passenger attached to the vehicle's canopy.

To adjust a cushion's location, remove the three screws that secure the cushion to the canopy. Set the cushion to the desired height and reinstall the screws, tightening them securely.



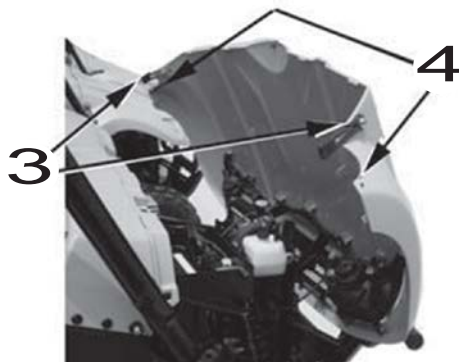
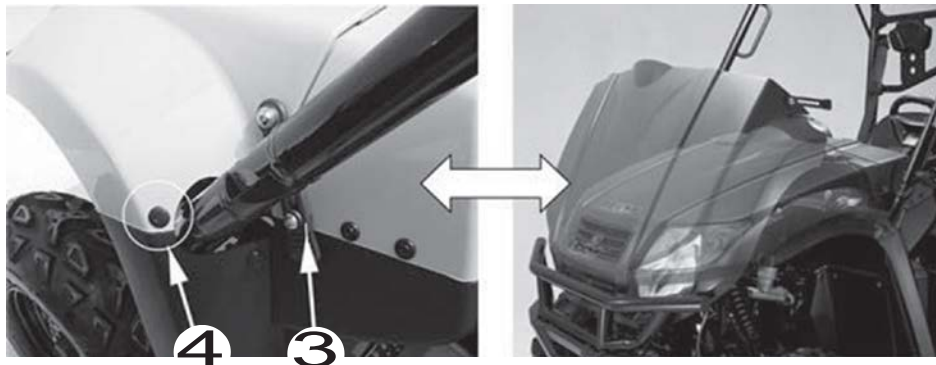


# FEATURES & CONTROLS

## HOOD

You can open the hood on your UXV450i to perform maintenance-related tasks.

To open the hood, unhook the two rubber hood latches ③ and release the six plastic fasteners ④. Press the center of the plastic fastener to release it and pull it from the hood and the fender. Lift on the back of the hood to raise it (it is hinged in the front).



To close the hood, carefully lower it back into place on the chassis. Hook the rubber hood latches ③.

Reset the plastic fasteners ④ and insert them back into the holes in the hood, the dash, and the fender extensions. Set the fastener by pressing the center pin down so it is flush with the fastener's button head.

## SWITCH

### Ignition Switch

The UXV450i ignition switch is a three-position, key-operated switch. The key can be removed from the switch when it is in the OFF position.

**OFF:** Engine is off. All electrical circuits are off (except accessory circuit).

**ON:** The engine can run as the ignition is powered. The electrical circuits are on.

**START:** The starter motor is engaged by turning and holding the switch in this position. Once released, the switch will return to the ON position.



### **CAUTION**

Allow thirty seconds between starting attempts to allow the starting motor to cool. Continuous starting attempts will result in overheating and damage to the starting motor.

## FEATURES & CONTROLS

### AUXILIARY POWER OUTLET

Your UXV450i is equipped with a 12VDC power outlet ① (cigarette lighter socket) to provide power to electrical accessories.

This power outlet 8 provides fused power (15A) at all times. Additional spade-type connectors are available on the outlet on the back side of the dash to provide a more permanent source of accessory electrical power.

#### **⚠ CAUTION**

No not use items that will exceed the amperage capacity of the auxiliary power outlet or connectors. The maximum capability of this circuit is 15A (180 W). It would be acceptable to power items such as a winch control relay, however a winch motor would exceed the circuit's capacity. Follow accessory wiring instructions explicitly to prevent damage to your UXV450i. If you need assistance installing accessories properly, consult your KYMCO dealer.



①



# FEATURES & CONTROLS

## MULTIFUNCTION METER

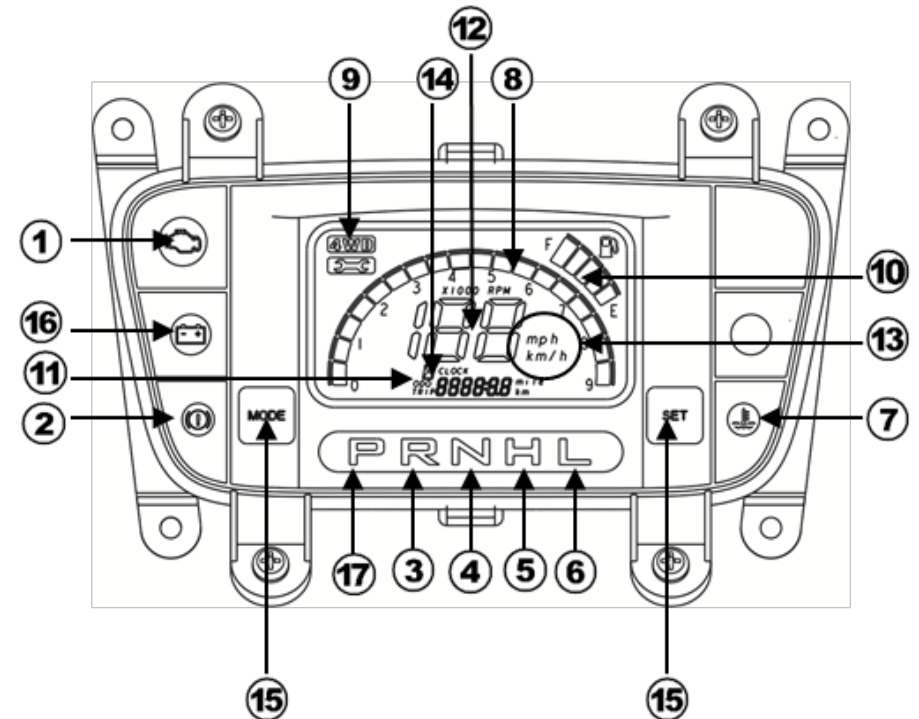
Your UXV450i is equipped with a multifunction meter on its dashboard that includes speedometer, odometer, indicator lamps and other operational information and alerts. The multifunction meter becomes active when the ignition switch is in the ON position.

### Indicator Lights

Indicator lights will provide you information about the operational status of several of the vehicles features and controls

### LCD Indicator Icons & Meter Buttons

The Liquid Crystal Display (LCD) portion of the multifunction meter provides the driver with information such as vehicle speed, total miles operated, trip mileage, fuel level, time and drive mode. There are two buttons that control other functions of the multifunction meter: the MODE and SET buttons. These buttons allow programming of certain multifunction meter features, such as the clock.



1. Engine trouble warning light
2. Parking Brake
3. Reverse Gear
4. Neutral
5. High Gear
6. Low Gear
7. High Temperature Warning
8. Engine Tachometer

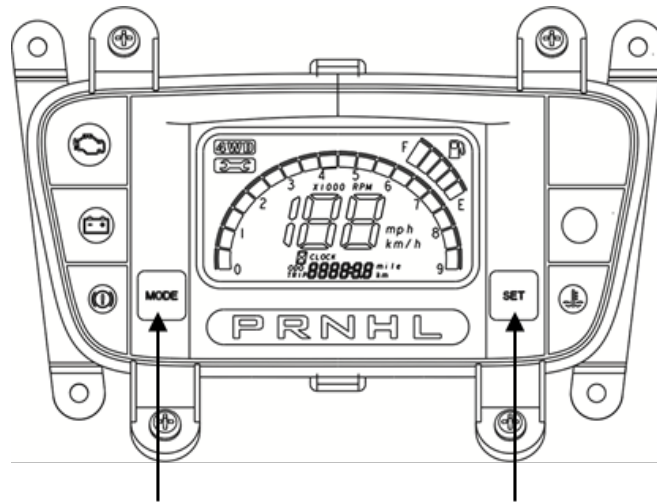
9. 4WD Indicator
10. Fuel Level Indicator
11. Odometer/Tripmeter
12. Speedometer
13. MPH or Km/H display
14. Clock
15. MODE & SET Buttons
16. Battery low voltage warning light
17. Parking gear

# FEATURES & CONTROLS

## Multifunction Meter Operation

The UXV450i's multifunction meter can be programmed to display speed in MPH or Km/H, distance traveled (tripmeter) and time (clock).

Use the MODE and SET buttons with procedures listed in the following sections to set and display the desired information.

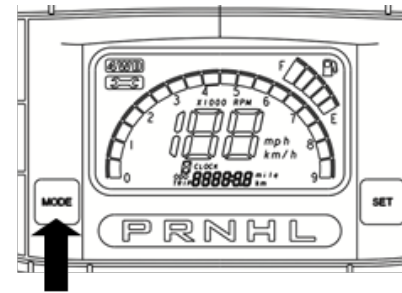


MODE button

SET button

## Speedometer: MPH -or- Km/H Display

To toggle the multifunction meter's speed display between MPH and Km/H, press down the MODE button for two seconds. This will shift the display between MPH or Km/H.



MODE button

## Tripmeter:

Selecting Odometer, "Trip A" or "Trip B"

To toggle the multifunction meter's odometer and tripmeter display, press hold the SET button for two seconds and release. This will shift the display between the odometer and the tripmeter.

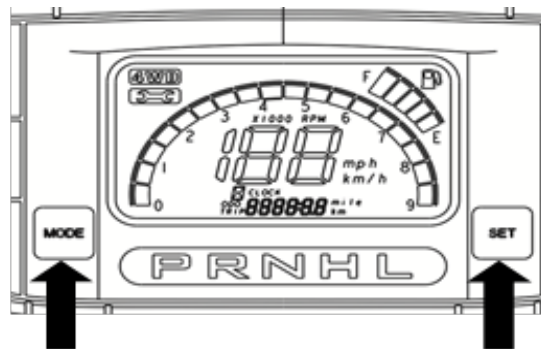
## FEATURES & CONTROLS

### Clearing the Tripmeter

To clear the tripmeter's mileage, select the trip meter you wish to clear, then press and hold the SET and MODE buttons simultaneously for two seconds. This will clear the mileage ("zero the tripmeter") on the selected tripmeter display.

### Setting the Clock

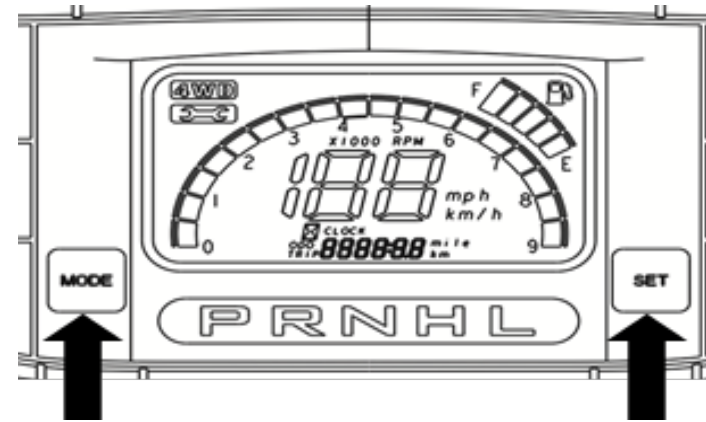
To set the clock's time, cycle the odometer/tripmeter until the odometer mileage is displayed. Then press and hold the SET and MODE buttons simultaneously until the clock display begins to flash.



MODE button

SET button

Once the clock display is flashing, you can set the hours and the minutes. Press the MODE button to change the HOURS setting. Press the SET button to change the MINUTES setting.



Once you have set the desired time, press and hold the SET and MODE buttons simultaneously to complete the clock setting (the clock display will stop flashing).

# PERIODIC MAINTENANCE SCHEDULE

ITEM	WHICHEVER COMES FIRST  ROUTINE	INITIAL			EVERY		
		mi	100	600	1200		
		Km	150	1000	2000		
		MONTH	1	6	12		
Engine oil	•Replace (Warm engine before draining).		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Oil strainer	•Clean. •Replace if necessary.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Engine oil filter cartridge	•Replace		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Final gear oil	•Check oil level/oil leakage •Replace every 12 months.		<input type="radio"/>		<input type="radio"/>		
Differential gear oil	•Check oil level/oil leakage •Replace every 12 months.		<input type="radio"/>		<input type="radio"/>		
Air filter element (for engine and *V-belt compartment)	•Clean. (More often in wet or dusty areas.) •Replace if necessary.			<input type="radio"/>	<input type="radio"/>		
*Carburetor	•Check idle speed/starter operation. •Adjust if necessary.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Cylinder head cover breather system	•Check breather hose for cracks or damage. •Replace if necessary.			<input type="radio"/>	<input type="radio"/>		
Spark plug	•Check condition. •Adjust gap and clean. •Replace if necessary.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Fuel line	•Check fuel hose for cracks or damage. •Replace if necessary.			<input type="radio"/>	<input type="radio"/>		
*Valves	•Check valve clearance. •Adjust if necessary.		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Continued on following page

# PERIODIC MAINTENANCE SCHEDULE

ITEM	WHICHEVER COMES FIRST  ROUTINE	INITIAL			EVERY		
		mi	100	600	1200		
		Km	150	1000	2000		
		MONTH	1	6	12		
*Brake	<ul style="list-style-type: none"> <li>•Check operation and brake fluid.</li> <li>•Replace brake pad if necessary.</li> </ul>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Coolant	<ul style="list-style-type: none"> <li>•Check coolant leakage.</li> <li>•Replace if necessary.</li> <li>•Replace coolant every 24 months.</li> </ul>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*V-belt	<ul style="list-style-type: none"> <li>•Check operation.</li> <li>•Replace if damage or excessive wear.</li> </ul>		<input type="radio"/>		<input type="radio"/>		
*Exhaust system	<ul style="list-style-type: none"> <li>•Check leakage.</li> <li>•Retighten if necessary.</li> <li>•Replace gasket if necessary.</li> </ul>			<input type="radio"/>	<input type="radio"/>		
Spark arrester	<ul style="list-style-type: none"> <li>•Clean</li> </ul>			<input type="radio"/>	<input type="radio"/>		
*Wheels	<ul style="list-style-type: none"> <li>•Check balance/damage/runout.</li> <li>•Replace if necessary.</li> </ul>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Wheel bearings	<ul style="list-style-type: none"> <li>•Check bearing assembly for looseness/damage.</li> <li>•Replace if damaged.</li> </ul>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Steering system	<ul style="list-style-type: none"> <li>•Check operation.</li> <li>•Replace if damaged.</li> <li>•Check toe-in.</li> <li>•Adjust if necessary.</li> </ul>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
*Drive shaft boots	<ul style="list-style-type: none"> <li>•Check operation.</li> <li>•Replace if damaged.</li> </ul>			<input type="radio"/>	<input type="radio"/>		
*Suspension	<ul style="list-style-type: none"> <li>•Check operation.</li> <li>•Correct if necessary.</li> </ul>			<input type="radio"/>	<input type="radio"/>		

Continued on following page



# PERIODIC MAINTENANCE SCHEDULE

ITEM	WHICHEVER COMES FIRST	INITIAL			EVERY		
		mi	100	600	1200		
		Km	150	1000	2000		
		MONTH	1	6	12		
ROUTINE							
*Knuckle shafts/ Steering shaft	•Lubricate every 6 months.			○	○		
*Fittings and Fasteners	•Check all chassis fittings and fasteners. •Correct if necessary.		○	○	○		

\* : It is recommended that these items be serviced by a KYMCO dealer.

\*\* : Lithium soap base grease.

## BREAK-IN PROCEDURE

New UTVs and renewed UTV engines require a "break-in" period. The first month is most critical to the life of your UTV's engine, and proper operation during this break-in period will help assure maximum life and performance from your UTV.

During your UTV's first ten hours of operation, always use a light throttle, keeping engine RPM well below the maximum. Varying the engine RPM during the break-in period allows the engine and transmission components to mate together so they will operate smoothly in the future. Applying some higher engine RPM's and other loads during the break-in period is not detrimental when done in moderation. Do not pull a trailer or haul very heavy cargo loads during the break-in period.

When the engine starts, allow it to warm up properly. Permit the engine to idle for several minutes until it has reached normal operating temperature. However, do not allow the engine to idle for excessively long periods of time, as this additional heat can affect future engine integrity.

## GENERAL MAINTENANCE

### CAUTION

**BRAKE PADS MUST BE BEDDED-IN TO ACHIEVE FULL BRAKING EFFECTIVENESS.**

Braking distance will be greater until brake pads are properly bedded-in.

**TO PROPERLY BED-IN THE BRAKES, USE FOLLOWING PROCEDURE:**

\*Choose an area sufficient to safely accelerate your UTV to 30 mph and smoothly brake to a stop

\*Accelerate to 30 mph, then depress the brake pedal to decelerate to 0 - 5 mph

\*Repeat procedure five times.

### WARNING

Do not attempt sudden stops or put yourself into a situation with your UTV where a sudden stop will be required until the brake pads are properly bedded-in.

After the completion of the break-in period, your UTV's engine oil and oil filter should be changed. Other maintenance after break-in should include checking of all prescribed adjustments and tightening of all fasteners. It is your responsibility, as the owner and driver of your UTV, to arrange for and pay for this initial service.

Because of the technical ability and resources available to an authorized KYMCO dealer, it is best to take your UTV to the dealer for service rather than attempting to perform this initial service yourself.

■ NOTE: Proper maintenance of your UTV is important for optimum performance and safety. Follow the Maintenance Schedule listed in this manual and in other official KYMCO publications.

If you become aware of any abnormal noises, vibrations, or improper function of any component of your UTV, DO NOT OPERATE THE UTV. Take your UTV to an authorized KYMCO ATV dealer for inspection and adjustment or repair.

### CAUTION

If you do not feel qualified to perform any of the maintenance procedures or inspections listed in this Owner's Manual, take your UTV to an authorized KYMCO dealer for professional service.

■ NOTE: The instructions and information on the following pages refer to specific items in the maintenance and care of your UTV.



# GENERAL MAINTENANCE

## TOOL KIT

A tool has been supplied with your UXV450i for your convenience. The tool kit is stored in the right glove box.



- ① Tool Pouch
- ② Tire Air Pressure Gauge
- ③ Wrench - 17/19 mm
- ④ Wrench - 10/14 mm
- ⑤ Wrench - 8/12 mm
- ⑥ Screwdriver Handle
- ⑦ Screwdriver Bit
- ⑧ Hexagon Wrench
- ⑨ Hexagon Wrench
- ⑩ Spark Plug Socket

■ **NOTE:** The tool kit is a convenience item only. Suitable tools are required for other repairs and service. Consult your KYMCO dealer for more information.

## GASOLINE-OIL-LUBRICANT

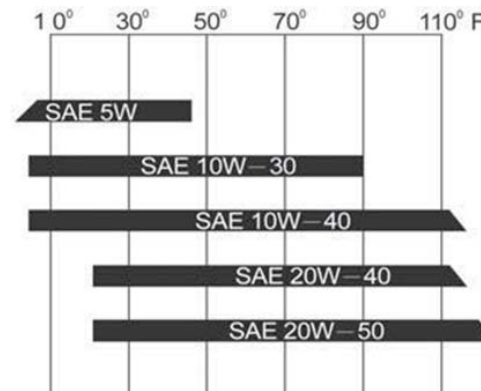
### Recommended Gasoline

The recommended fuel to use in your UTV is regular un- leaded gasoline with a 87 minimum octane rating. In many areas, oxygenates (either ethanol or MTBE) are added to the gasoline. Oxygenated fuels containing up to 10% ethanol, 5% methane, or MTBE are acceptable to use.

When using ethanol blended gasoline, it is not necessary to add a gasoline antifreeze since ethanol will prevent the accumulation of moisture in the fuel system.

### Recommended Engine Oil

The recommended engine oil to use in your UTV is an oil which is rated SJ or higher under the API service classification. These oils meet all of the lubrication requirements of a KYMCO UTV engine. The recommended, standard oil viscosity is SAE 10W-40. Ambient temperature should determine the correct weight of oil. See the viscosity chart below or consult an authorized KYMCO dealer for guidance.

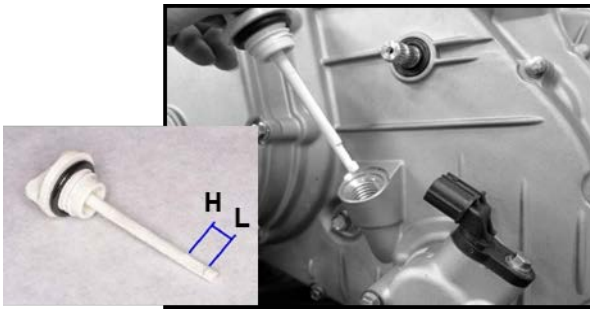


# GENERAL MAINTENANCE

## Engine Oil Level Inspection

To check the engine oil level, use this procedure:

1. Park the UTV on level ground
2. Warm up the engine for several minutes, then turn it off
3. The oil level should be above the "L" mark but not higher than the "H" mark. Add oil through the filler cap as required.



■ **NOTE:** The UTV should be parked on level ground, with the engine off, when checking the engine oil level. Wait approximately one minute after running for the oil level to stabilize before checking.

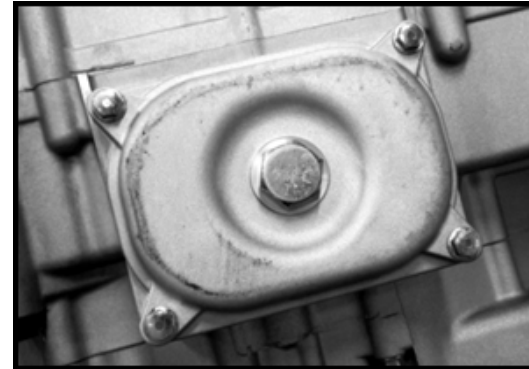
### **CAUTION**

Do not overfill the engine with oil. Overfilling the engine can cause oil leaks and/or oil contamination of the air filter element. Always make sure the oil level is above the "L" mark but not higher than the "H" mark.

## Engine Oil & Oil Filter Replacement

To replace the engine oil and oil filter, and clean the oil strainer use this procedure:

1. Park the UTV on level ground
2. Warm up the engine for several minutes, then turn it off
3. Place a suitable container under the engine (capable of holding 4 quarts of oil)
4. Remove the four oil strainer cover bolts.



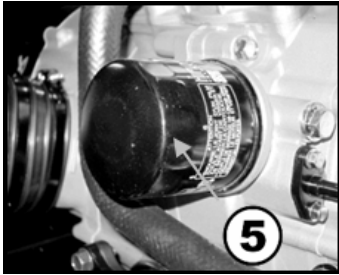
### **CAUTION**

When removing the oil screen cap, a compression spring, oil strainer and O-ring gasket will fall out. Be careful not to lose these parts and reinstall them in the order that they were removed. When servicing the engine oil, do not allow foreign material to enter the crank- case where it can damage the engine.

# GENERAL MAINTENANCE

■ NOTE: Skip step 5 and proceed to step 7 if you are not going to replace the oil filter cartridge.

5. Remove the oil filter cartridge ⑤ with a suitable oil filter wrench. Rotate the oil filter cartridge counterclockwise to remove it from the engine.



6. Lubricate the new oil filter cartridge's o-ring gasket with clean engine oil and install the filter on the engine. Tighten the oil filter cartridge by rotating it clockwise until it securely seats to the engine

7. Reinstall the oil strainer and its component parts. Tighten the oil strainer cap securely

8. Reinstall the oil drain plug and tighten it securely

9. Add the appropriate amount of engine oil

## OIL QUANTITY

Without oil filter ..... 0.58 U.S. Gal. (2.2 L)

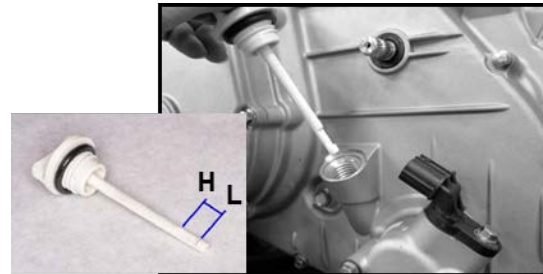
With oil filter change ..... 0.63 U.S. Gal. (2.4 L)

■ NOTE: Dispose of the used oil and filter in an environmentally proper way.

## ⚠ CAUTION

Any oil used in place of the KYMCO recommended engine oil can cause serious engine damage.

10. Warm up the engine for several minutes, then turn it off
11. The oil level should be above the "L" mark but not higher than the "H" mark. Add oil through the filler cap as required.



■ NOTE: The UTV should be parked on level ground, with the engine off, when checking the engine oil level. Wait approximately one minute after running for the oil level to stabilize before checking.

## ⚠ CAUTION

Do not overfill the engine with oil. Overfilling the engine can cause oil leaks and/or oil contamination of the air filter element. Always make sure the oil level is above the "L" mark but not higher than the "H" mark.

## GENERAL MAINTENANCE

### Recommended Front Differential/Rear Drive Lubricant

The recommended lubricant for your KYMCO UTV (front differential and rear drive when applicable) is an SAE approved 80W-90 Hypoid fluid.

#### CAUTION

Any lubricant used in place of the KYMCO recommended lubricant can cause serious front differential/rear drive damage.

### Front Differential and Rear Drive Gear Lubricant (Inspecting/Changing)

Inspect and change the gear lubricants in your UTV according to the Maintenance Schedule. When changing the lubricant, only use the approved SAE 80W-90 hypoid-type fluid and use the following procedure:

1. Park your UTV on level ground
2. Remove each fluid filler plug
3. Drain the fluid into a drain pan by removing the drain plug from the Front Differential
4. Drain the fluid into a drain pan by removing the drain plug from the Rear Drive.

#### CAUTION

Inspect the oil for any signs of metal filings or water. If found, take your ATV to an authorized KYMCO ATV dealer for servicing.

5. After all the fluid has been drained, reinstall the drain plugs and tighten them securely

6. Pour recommended oil into each filler hole

■NOTE: If the gear case has a level plug, add fluid up to the threads of the level plug. If your UTV's gear case only has a fill plug, add fluid to within 1 in. of the threads of the fill plug.

7. Reinstall the fluid filler plugs and level plugs.

### Filling the Fuel Tank

See page 55 of this manual on how to unlock the fuel tank cap.

Always fill your UTV's fuel tank in a well-ventilated area. Do not spill or overflow gasoline when filling the fuel tank. This will greatly increase the risk of a fire hazard. Never add gasoline to the ATV fuel tank near any open flames or with the engine running or hot. DO NOT SMOKE while filling the fuel tank.

Since gasoline expands as its temperature increases, the fuel tank on your UTV should only be filled to its rated capacity. Expansion room must be maintained in the tank, particularly if the tank is filled with cold gasoline and the UTV is then moved to a warm area.

#### WARNING

Do not overfill the fuel tank.

## GENERAL MAINTENANCE

### SPARK PLUG

#### Inspection & Replacement

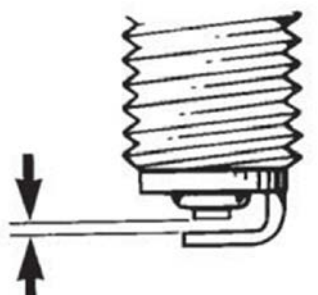
The spark plug is an important engine component and is easy to inspect. The condition the spark plug can indicate the condition of your UTV's engine.

For example, a very white center electrode porcelain color could indicate an intake air leak or carburetion problem. Do not attempt to diagnose such problems yourself. Instead, take your UTV to a KYMCO dealer.

You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly wear down and erode. If electrode deterioration becomes severe, replace the spark plug with one of the proper type.

Spark plug type	CR7E (NGK)
Tightening torque .....	73 lb-ft (17.2 N-m)

Electrode gap:  
0.028 - 0.028 in (0.9 mm)



The diagram shows a side view of a spark plug. A thin metal gap gauge is placed between the center electrode and the ground electrode. Two vertical arrows, one pointing up and one pointing down, indicate the gap between the electrodes.

■NOTE: Before installing the spark plug, measure the electrode gap with a feeler gauge and adjust to specification. When installing the spark plug, always clean the gasket surface and use a new spark plug if the sealing gasket is pressed flat. Always tighten the spark plug to the specified torque.

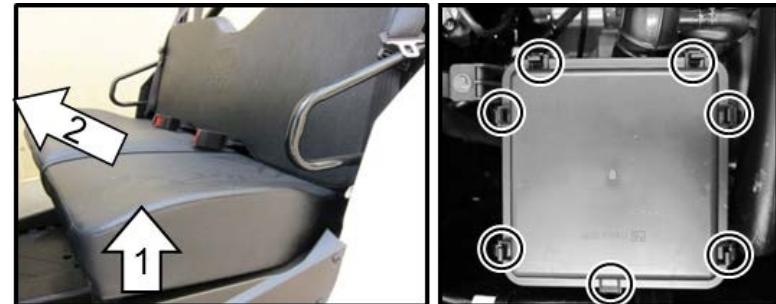
### AIR CLEANER

#### Air Cleaner Element Service

The air cleaner element (air filter) requires periodic service because it must be kept in good condition to prevent debris from getting into the engine and causing premature wear.

To remove and service the air cleaner element, follow this procedure:

1. Remove the seat.
2. Loosen the air cleaner latches





## GENERAL MAINTENANCE

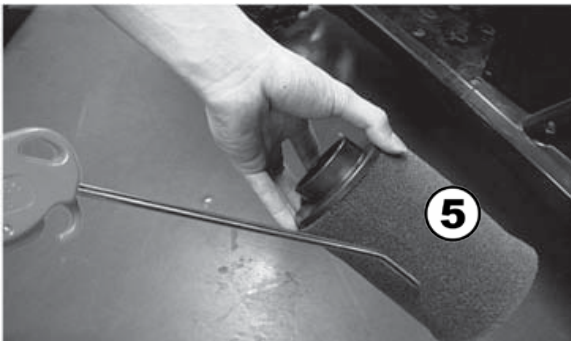
3. Remove the air cleaner cover screws ③
4. Loosen the joint clamp ④ and remove the element from the air cleaner.



### ⚠ CAUTION

The air cleaner element must be in serviceable condition. If it is torn or damaged it must be replaced. A damaged or improperly serviced air cleaner element will cause pre-mature engine wear.

5. Use compressed air to blow debris from the air cleaner element ⑤. If the debris is heavy, the foam will need to be cleaned and re-oiled



### ⚠ CAUTION

The UXV450i's air cleaner element is a oiled foam type that requires cleaning with an appropriate solvent and re-oiling so it will properly filter debris from the air that will enter the engine. Consult with your KYMCO dealer about air cleaner element servicing products and procedures.

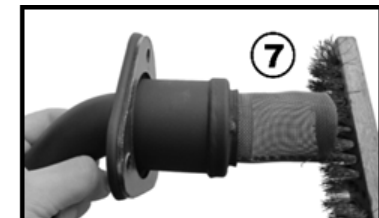
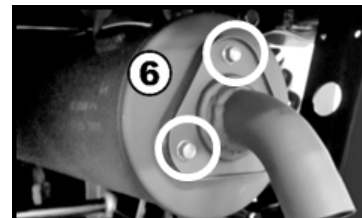
6. After cleaning, reinstall the air cleaner element and the covers in reverse order of disassembly

## EXHAUST

### Spark Arrestor Cleaning

Your UXV450i is equipped with a spark arrestor in its muffler. The spark arrestor is required for you to operate your UTV on public lands. Periodically you will need to clean the spark arrestor's screen of carbon by following this procedure:

1. Remove the three retaining screws ⑥ and pull the spark arrestor from the muffler body
2. Use a wire brush to clean the carbon from the arrestor screen ⑦.
3. Reinstall the spark arrestor in the muffler body and securely tighten the retaining screws



# GENERAL MAINTENANCE

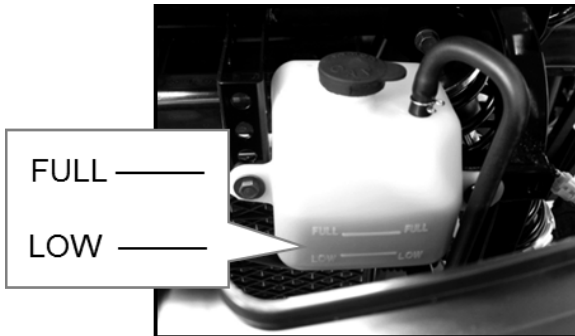
## COOLING SYSTEM

### Inspection

Your UXV450i has a liquid-cooled engine and periodically you should inspect the level of the fluid in the coolant reservoir and the external condition of the radiator.

Inspect and adjust the fluid level in the coolant reservoir using the following procedure:

1. Open the hood
2. Check the coolant level in the coolant reservoir when the engine is cold as the level will vary with changes in engine temperature. The coolant level should be between the FULL and LOW marks on the reservoir



3. If the fluid level is low, add coolant or distilled water to raise it up to the FULL level

■ **NOTE:** If you have to add water to your UTV coolant, have your KYMCO dealer inspect the coolant as soon as possible to determine if it is in good condition.

### ⚠ CAUTION

Hard water, tap water, or salt water is harmful to the engine and the cooling system components. Always use distilled water or pre-mixed coolant (50:50 ratio) when adding fluid to the coolant reservoir.

Periodically inspect the external condition of the radiator and the coolant hoses. Look for leaks or damage on the cooling fins of the radiator.

### ⚠ WARNING

Never remove the radiator cap when the engine is warm. The coolant in the radiator is very hot and under pressure and can cause severe burns.

■ **NOTE:** Dirt and debris must be cleaned from the radiator's fins regularly to ensure proper engine oil cooling.

### ⚠ CAUTION

Operating your UTV with high engine temperature may result in engine damage or premature wear.

■ **NOTE:** High engine RPM, low vehicle speed, or heavy load will raise engine temperature. Decreasing engine RPM, reducing load, and selecting an appropriate transmission gear can lower the temperature.



# GENERAL MAINTENANCE

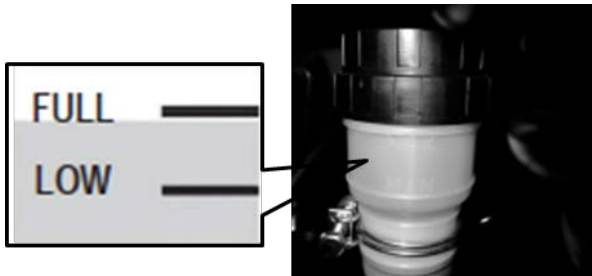
## BRAKES

### Brake Fluid Inspection

Your UXV450i has hydraulically operated brakes and periodically you should inspect the level and condition of the fluid in the brake fluid reservoir.

Inspect and adjust the brake fluid level in the reservoir using the following procedure:

1. Open the hood
2. Check the brake fluid level; the brake fluid level should be between the FULL and LOW marks on the reservoir



3. If the level is low, unscrew the reservoir cap and add DOT 3 brake fluid to bring level up to the FULL mark
4. Clean the reservoir cap with a clean cloth and replace it
5. Close the hood

### **CAUTION**

Only use DOT 3 brake fluid from a sealed container. Replace the brake fluid per the maintenance schedule.

### **WARNING**

#### POTENTIAL HAZARD

Brake fluid contacting the skin or eyes.

#### WHAT CAN HAPPEN

The fluid will cause irritation.

#### HOW TO AVOID THIS HAZARD

Avoid brake fluid contact with skin or eyes. In case of contact, flush the affected area thoroughly with water and call a doctor if your eyes were affected.

## SHOCK ABSORBERS

Each shock absorber on your UTV should be visibly checked weekly for excessive fluid leakage (some seal leakage is normal), cracks or breaks in the shock body, or a bent shock rod. If any one of these conditions is detected, replacement is necessary.

■ **NOTE:** If you drive your UTV in extremely cold weather (-10° F / -23° C or colder), a small amount of fluid leakage may occur on the shock rod. Unless the leakage is excessive, replacement of the shock absorbers is not necessary.

## GENERAL LUBRICATION

### Cables

Under normal use, the control cables on your UTV do not require lubrication. However, it is advisable to lubricate the ends of the cables periodically with a quality cable lubricant.

# GENERAL MAINTENANCE

## WHEELS

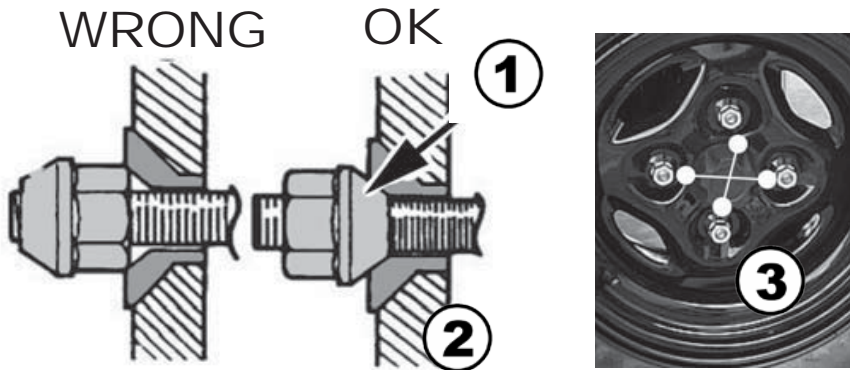
### Wheel Removal & Installation

To remove the wheels from your UTV, follow this procedure:

1. Elevate the UTV so the wheel comes off the ground by using a suitable jack and support stands
2. Remove the nuts from the wheel
3. Remove the wheel assembly

To install the wheels on your UTV, follow this procedure:

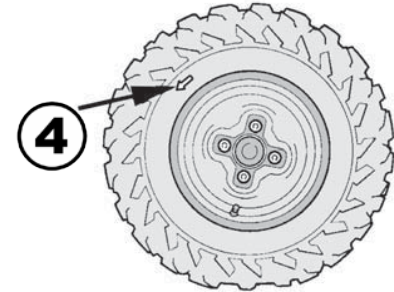
1. Place the wheel on the spindle
2. Install the nuts on the spindle's studs so the tapered side of the nut ① faces the wheel ②



3. Tighten the wheel nuts in a criss cross pattern ③
4. Torque the nuts to the specified torque

Wheel Nut torque ..... 40 lb-ft (55 N-m)

NOTE: The arrow mark ④ on the tire must point towards the rotating direction of the wheel.



### ⚠ WARNING

#### POTENTIAL HAZARD

Install the wheels improperly.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THIS HAZARD

Carefully follow the instructions in this Owner's Manual when installing the wheels.

## TIRES

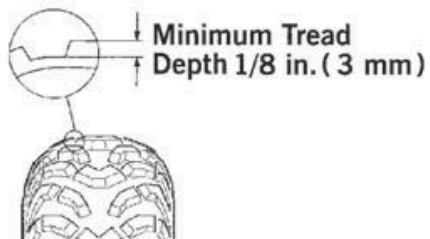
### ⚠ WARNING

Always use the size and type of tires specified for your KYMCO UTV. Refer to the specifications chart in this manual for tire-related information and always maintain proper tire inflation pressure.

## GENERAL MAINTENANCE

### Tire Tread Condition

The use of worn-out tires on your UTV is very dangerous. A tire is considered to be worn-out when the depth of the tread is less than 1/8 in (3 mm). Be sure to replace the tires on your UTV before reaching this minimum specification.



### **⚠ WARNING**

The use of worn-out tires on your UTV can be dangerous and can increase the risk of an accident.

### Tire Replacement

Your UTV has low-pressure tubeless tires. Air is sealed by the contact surfaces of the inner wheel rim and the tire bead. If either the inner wheel rim or tire bead are damaged, air may leak. Be extremely careful not to damage these areas when replacing tires. It is very important to use proper tools when repairing or replacing tires to prevent damage to the tire, the tire bead or wheel rims. If you do not have access to the proper tools or lack the technical ability, have your tires serviced by an authorized KYMCO dealer

### **⚠ WARNING**

Use only KYMCO approved tires on your UTV when replacing tires. Failure to do so could result in unstable UTV operation.

### Tubeless Tire Repair

Should a leak or flat tire occur due to a puncture, the tire may be repaired using a plug-type repair. If the damage is from a cut or if the puncture cannot be repaired using a plug, the tire must be replaced. When riding your UTV in areas where transportation or service facilities are not readily available, you should carry a plug-type repair kit and a tire pump.

# GENERAL MAINTENANCE

## BATTERY

The battery is located in a compartment under the hood of your UXV450i. After initial service, batteries require regular cleaning of the terminals and recharging in order to deliver peak performance and maximum service life. The procedures listed in this manual are recommended for cleaning and maintaining MF-sealed type batteries. Always read and follow instructions provided with battery chargers and battery products.

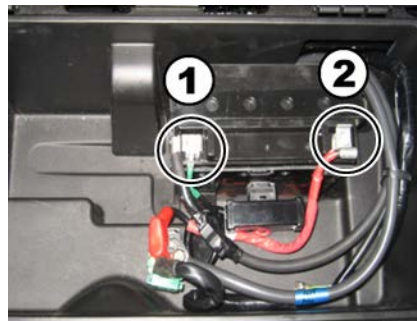
■ **NOTE:** You can perform your own battery maintenance if you are qualified to do so. If you do not feel qualified, take your UTV to an authorized KYMCO UTV dealer for battery service. As with all other periodic maintenance, you are responsible to arrange and pay for this service.

### **⚠ WARNING**

Battery service must be performed in an area free of any sparks, open flame, cigarettes, or any other flame. Always wear safety glasses. Protect skin and clothing when handling a battery. When servicing battery in enclosed space, keep the area well-ventilated.

To remove the battery from your UTV for service, follow this procedure:

1. Turn off the ignition switch and open the hood
2. Remove the battery compartment cover
3. Disconnect the battery cables. Disconnect the negative cable ① first, then disconnect the positive cable ②
4. Remove the battery from the battery compartment. Then thoroughly wash the battery and the compartment with soap and water.



■ **NOTE:** If the battery posts, cable ends, or the battery case has a buildup of white/green powder residue, apply water and baking soda to neutralize this acid residue and rinse with warm soapy water.

5. Use a wire brush to clean the battery posts and cable ends, removing all corrosive buildup. Replace any damaged cables
6. Use a multimeter to test the battery voltage. The voltage for a fully charged battery should be at least 12.5 DC Volts
7. If the meter indicates low voltage, charge the battery using the guidelines on the following page

### **⚠ CAUTION**

Never remove the caps from the battery to add water or electrolyte (sulfuric acid) to the battery. The UXV450i's battery is a MF (maintenance-free) sealed type, so the removal of the caps and the addition of fluid will cause severe battery damage.

## GENERAL MAINTENANCE

- NOTE: If the meter indicates the proper voltage, the battery may be reinstalled in the UTV (see step 10).
- NOTE: If the meter indicates the voltage is low, charge the battery using a automatic battery charge specially designed for use on MF-type batteries. When using an automatic battery charger, always follow the charger manufacturer's instructions.

### WARNING

A battery overheated from improper charging could explode causing severe injury or death. Always monitor the battery charging carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

8. After charging , remove the battery charger.
9. Test the battery voltage again. The meter should read at least 12.5 DC Volts. If the voltage is as specified, the battery is ready to be reinstalled in the ATV.
10. Reinstall the battery into the battery compartment and apply a light coat of dielectric grease on the battery posts and cable ends.

### CAUTION

Before installing the battery, make sure the UTV's ignition switch is in the OFF position.

11. Connect the battery cables (positive cable first), reattach the battery compartment cover and close the hood.

### CAUTION

Connecting the battery cables in reverse (positive to negative and negative to positive) can cause serious damage to the electrical system.

### WARNING

Battery acid is harmful if it contacts eyes, skin, or clothing. Extreme care must be taken whenever handling a battery.

## FUSES

The main, 30A fuse is located on the starter relay. The fuse box holds the other fuses and is located in the battery compartment under the hood of your UXV500. The fuse box accepts small, blade-style fuses. To inspect or replace a fuse in the fuse box, follow this procedure:

1. Turn off the ignition switch and open the hood
2. Remove the battery compartment cover
3. Remove the fuse box cap
4. Pull the old fuse from the fuse holder
5. Push the new fuse into the fuse holder
6. Reinstall the fuse box cap
7. Reinstall the battery compartment cover and close the hood

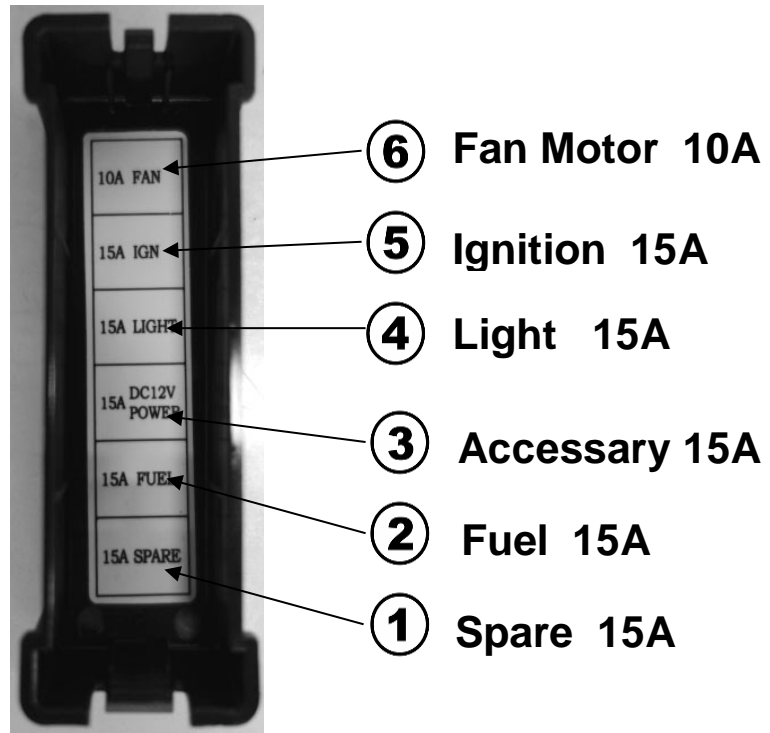
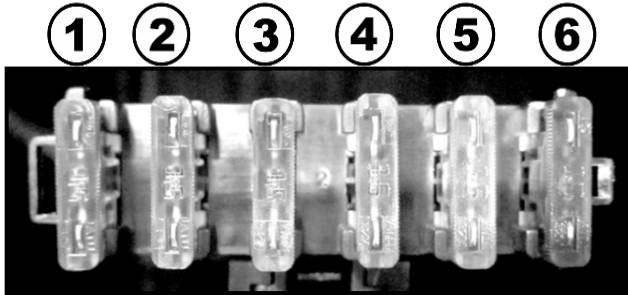
### CAUTION

To prevent an accidental short-circuit, turn off the main ignition switch before inspecting or replacing a fuse.

# GENERAL MAINTENANCE

## Fuse Identification

The fuse box inner lid has a label which identifies the fuse's circuit, its rating, and its location in the fuse box.





## GENERAL MAINTENANCE—PREPARATION FOR STORAGE

### CAUTION

Prior to storing your UTV, it should be properly serviced to prevent component rusting and deterioration.

KYMCO recommends the procedures listed on this page to prepare your UTV for storage. If you lack the technical ability to prepare your UTV for storage, consult an authorized KYMCO dealer about performing this service.

1. Clean the seat and head cushions (cover and base) with a damp cloth and allow the surfaces to dry
2. Clean your UTV thoroughly by washing dirt, oil, grass, and other debris from the entire vehicle. Allow the UTV to dry thoroughly. DO NOT get water into the engine, air intake or exhaust
3. Drain the gas tank completely or add a fuel stabilizer to the fuel in the gas tank. Remove the air filter housing cover and air filter
4. Start the engine and allow it to idle, then spray KYMCO Engine Preserver into the air filter opening for a period of ten to twenty seconds. Turn off the engine and reinstall the air filter and housing cover

### CAUTION

If the interior of the air filter housing is dirty, clean it of any debris before starting the UTV's engine.

5. Drain the gasoline from the carburetor float bowl.
6. Plug the exhaust system outlet with a clean cloth
7. Apply some light oil to the upper steering post bushing and shafts of the shock absorbers
8. Tighten all nuts, bolts, cap screws, and screws-tighten these fasteners to the proper torque specification. Make sure that the rivets holding components together are tight - re place all loose rivets
9. Disconnect the battery cables (negative cable first) and then remove the battery. Clean the battery posts and cables. Store the battery in a clean, dry area where you can access it for periodic charging
10. Store your UTV indoors, parked in a level position

### CAUTION

Do not store your UTV outside in direct sunlight to avoid damage to the body work. Avoid using a plastic cover as moisture can condense on the UTV, causing rust and corrosion.



## GENERAL MAINTENANCE— PREPARATION OF YOUR UTV FOR DRIVING AFTER STORAGE

After storage, your UTV requires particular attention and adjustments to make sure you will enjoy many miles of trouble-free driving. To take your UTV out of storage, KYMCO recommends using the following procedure:

1. Clean your UTV thoroughly
2. Clean the engine. Remove the cloth from the exhaust system outlet
3. Check all control wires and cables for signs of wear or fraying. Replace any suspect items
4. Change the engine/transmission oil and filter
5. Charge the battery and test the voltage (refer to page 77) before installation. When installing the battery, connect the positive cable first ·

### CAUTION

Before installing the battery, make sure the ignition switch is in the OFF position. Connect the positive cable to the battery first.

6. Inspect the brake system. Verify the good condition of the brake fluid, pads and the controls
7. Verify the proper operation and adjustment of all controls, headlights, taillight, brakelight adjust or replace items as necessary.

8. Check the tire pressures inflate the tires to the recommended pressure
9. Tighten all nuts, bolts, cap screws, and screws tighten these fasteners to the proper torque specification. Make sure that the rivets holding components together are tight-replace any loose rivets.
10. Make sure the steering moves freely and does not bind.
11. Check the spark plug clean or replace as necessary.
12. Follow the recommendations listed in the Pre-Drive Inspection.

## EMISSION CONTROL INFORMATION

### **Crankcase Emission Control System**

Your UXV450i's engine is equipped with a closed crankcase system. Blow-by gases are routed back in to the combustion chamber via the intake system. This system does not allow the blow-by gases to enter the atmosphere.

### **Exhaust Emission Control System**

The exhaust emissions from your UXV450i are controlled by engine design, factory-set fuel delivery, ignition settings, and exhaust system design. This system also includes a secondary air supply system and a catalyzer in the exhaust system.

### **Noise Exhaust Emission Control System**

The engine, intake and exhaust systems of your UXV450i were designed to comply with federal, state and local noise level requirements. Do not modify the engine ,intake or exhaust components, as doing so will affect compliance these noise level requirements.

Please do not modify or change any KYMCO-designed components that may alter the sound or emission level from your UXV450i .





By KWANG YANG Motor Co., Ltd.

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