

## SAFE RIDING INFORMATION

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 ATV. Keep this Owner's Manual with your ATV 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 ATV.



A CAUTION symbol indicates that special precautions must be taken to avoid damaging the ATV.

■ NOTE

The NOTE symbol indicates key information about a procedure or to clarify an operation.

California Proposition 65

### WARNING

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

# SAFETY INTRODUCTION

## FOREWORD

Congratulations, and thank you for your purchase of a KYMCO All-Terrain Vehicle (ATV). Built with American engineering and global 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 ATV operating procedures. It also includes information about the general care and maintenance of your ATV.

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

## PROTECT YOUR SPORT

Being able to use and enjoy your ATV requires you and your family to operate it in a responsible manner. Before riding your ATV you should:

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

We advise you to strictly follow the recommended maintenance program for your ATV outlined in this manual. This preventative maintenance program was designed to ensure that all of the critical components of your ATV 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.

	Age (Years)	Engine Size (cc)	Speed Limitations (MPH)
<b>KYMCO and the ATV Safety Institute recommend that all ATV operators ride an ATV appropriate for their age.</b>	6-11	Up to 70	10 - Governed 15 - Maximum
	12-15	Up to 90	15 - Governed 30 - Maximum
	16 and Older	Over 90	According to Local Regulations

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# AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE

## SAFETY NOTES

- Always ride slowly and be extra careful when operating your ATV on unfamiliar terrain. Always be alert for changing conditions and terrain when operating your ATV.
- Never operate your ATV 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 ATV inspected by an authorized KYMCO ATV dealer if it has been involved in an accident.
- Never operate your ATV on hills that are too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- 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. Shift your weight backward when descending a hill. Never go down a hill at high speed. Avoid going down a hill at an angle which would cause the ATV 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. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV 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.
- Always use proper procedures if you stall or roll backwards when climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Dismount on the uphill side or to either side if pointed straight up- hill. Turn the ATV around and remount it following the procedure described in this manual.

## AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE

- Always check for obstacles before operating in an area that you are unfamiliar with. Never attempt to operate your ATV 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 an ATV in fast flowing water or in water deeper than the footrests. 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 be sure there are no obstacles or people behind you when you operate the ATV in reverse. When it is safe to proceed in reverse, go slowly. Avoid turning at sharp angles in reverse.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure as described in this manual.
- Never improperly install or improperly use accessories on this ATV.
- Never install a twist grip throttle on this ATV.
- Never exceed the stated load capacity for any ATV. 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.
- No one under the age of 16 should operate this ATV. Some operators at the age of 16 may not be able to operate an ATV safely. Parents should supervise the use of the ATV at all times. Parents should permit continued use only if they determine that the operator has the ability to operate the ATV safely.



## ATV SAFETY ALERT

You should be aware that **AN ATV IS NOT A TOY AND CAN BE HAZARDOUS TO OPERATE**. An ATV handles differently from other vehicles, including motorcycles 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.

### TO AVOID DEATH OR SEVERE PERSONAL INJURY

- Pay special attention to the warnings contained in this manual and on all safety labels on the ATV.
- Never operate an ATV without proper instruction. Beginners and experienced riders should complete a training course.
- Always follow these age recommendations:
  - ♦ A child under 12 years of age should never operate an ATV with an engine size 70cc or greater.
  - ♦ Children between the ages of 12 and 16 years of age should never operate an ATV with an engine size greater than 90 cc.
  - ♦ A child under 16 years of age should never operate an ATV without adult supervision. Children need to be observed carefully because not all children have the strength, size, skills, or judgment to operate an ATV safely.
- Never carry a passenger on an ATV. Carrying a passenger may upset the balance of the ATV, and doing so may cause it to go out of control.
- Avoid paved surfaces. ATVs are not designed to be used on paved surfaces and doing so may seriously affect handling and control.
- Never operate an ATV on a public road, even dirt or gravel one, because you may not be able to avoid colliding with other vehicles. Also, operating an ATV on a public road may be against the law.
- Never operate an ATV without an approved motorcycle helmet, eye protection, boots, gloves, long pants, and a long-sleeved shirt or jacket.
- Never consume alcohol or drugs before or while operating an ATV.
- Never operate an ATV at excessive speeds. Go at a speed which is proper for the terrain, visibility conditions, and your experience.
- Never attempt to do wheelies, jumps, or other stunts.
- Always be careful when operating an ATV, especially when approaching hills, turns, and obstacles, and when operating on unfamiliar or rough terrain.
- Never loan your ATV to anyone who has not taken a training course or has not been driving an ATV for at least a year.

## LOCATION OF WARNING AND SPECIFICATION LABELS

### WARNING INFORMATION

Your KYMCO ATV comes equipped with hangtags and several labels containing important safety information. Anyone who rides this ATV should read and understand this information before operating the vehicle. Like this manual, these labels and tags contain important information that is vital to the safe and proper operation of your ATV. Warning and information labels should be considered permanent parts of the vehicle. If a label comes off or become illegible, contact your KYMCO dealer for immediate replacement.



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



# LOCATION OF WARNING AND SPECIFICATION LABELS

**1**

**52**  
km/h

**2**

**WARNING**



Never carry passenger on this carrier.  
Maximum load:68kg (150lbs).

87556-LFA5-E01

**3**

**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: 25~32kpa, (0.25~0.32 kgf/cm<sup>2</sup>), 3.5~4.5 psi
  - REAR : 25~32kpa, (0.25~0.32 kgf/cm<sup>2</sup>), 3.5~4.5 psi
- Never set tire pressure over the recommended.

87505-LDB5-E10


**4**

**WARNING**

Improper ATV use can result in SEVERE INJURY or DEATH



ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR



NEVER USE WITH DRUGS OR ALCOHOL

**NEVER operate:**

- without proper training or instruction
- at speeds too fast for your skills or the conditions.
- do not operate the vehicle after consuming alcohol or drugs.

**ALWAYS:**

- use proper riding techniques to avoid vehicle overturns on hill and rough terrain and in turns.
- for your safety, wear gear to include helmet gloves and foot protection.
- gasoline is flammable, shut off engine, avoid sparks and open flame when refueling.

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

87515-LDB5-E10

**5**

**CAUTION**

Before Shifting, you must stop the machine and return the throttle lever to its closed position until the engine speed to the specified idling speed. Otherwise, the transmission may be damaged.

87322-LBA7-E000

**6**

**WARNING**



Operating this ATV if you are under the age of 16 increases your chances of severe injury or death.

NEVER operate this ATV if you are under the age of 16.

87506-LDB5-E00

**7**

**WARNING**

Exceeding vehicle's towing limit could cause an accident. Reduce speed when towing a trailer. Read operator's manual for details.

**MAXIMUM TONGUE WEIGHT :**  
35 lbs. (16 kg)

**MAXIMUM TONGUE CAPACITY :**  
290 lbs. (131.5 kg)

87514-LFA5-E02

**8**

**WARNING**

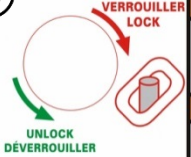


Never carry passenger on this carrier.  
Maximum load:34kg (75lbs).

87556-LFA5-E00

**9**

**WARNING**



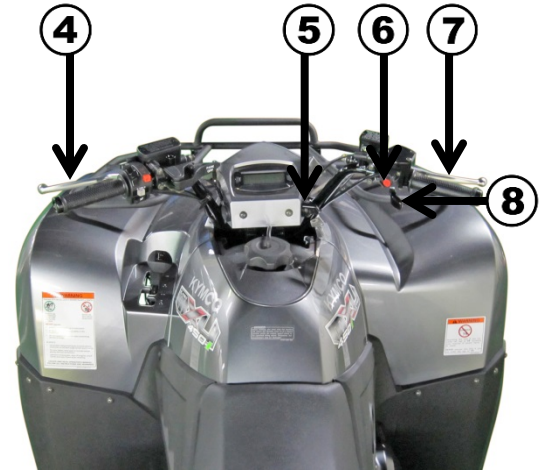
TO ENGAGE THE STEERING LOCK, TURN THE HANDLEBARS TO THE RIGHT AND ROTATE THE KEY CLOCKWISE IN THE LOCK. NEVER ENGAGE THE STEERING LOCK WHILE THE ENGINE IS RUNNING.

**AVERTISSEMENT**

NE JAMAIS VERROUILLER LA DIRECTION LORSQUE LE MOTEUR EST EN MARCHÉ. VERROUILLER APRÈS COMPLETE ROTATION DU GUIDON VERS LA DROITE.

87579-LFA5-E00

## LOCATION OF PARTS AND CONTROLS



1. Seat Latch

4. Rear Brake Lever

7. Front Brake Lever

10. Foot Brake Pedal (rear wheel)

2. Electrical Access Panel

5. Ignition Switch

8. Throttle Lever

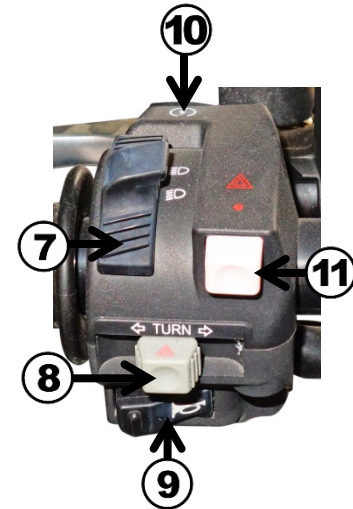
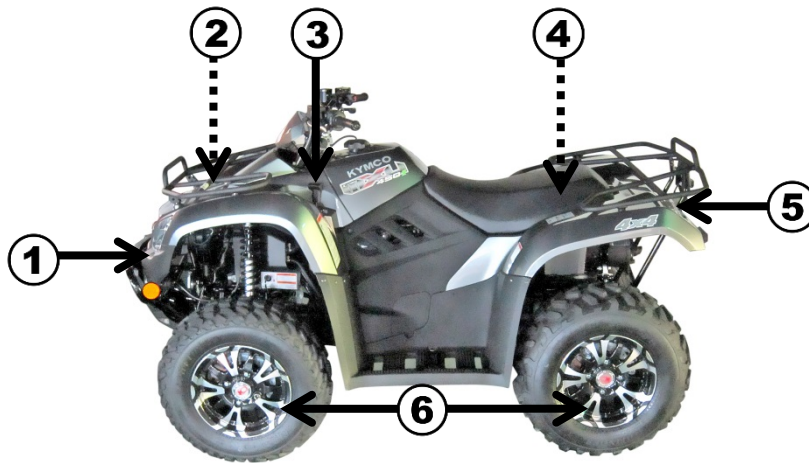
3. Coolant Reservoir

6. 2WD/ 4WD Selector Switch

9. Trailer hitch

■ NOTE: Your ATV may differ slightly in appearance from the images in this manual.

## LOCATION OF PARTS AND CONTROLS



1. Head Light

4. Storage Compartment\*

7. Head Light High/ Low Switch

10. Starter Switch

\* Item not visible

2. Power Distribution Module\*

5. Taillight/ Brake light

8. Winker Switch

11. Hazard Switch

3. Shift Lever

6. Aluminum Wheels

9. Horn Switch

■ NOTE: Your ATV may differ slightly in appearance from the images in this manual.

## GENERAL INFORMATION – CONTROLS & OPERATION

### PREFACE

Thank you for choosing this quality KYMCO ATV. 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 ATV and must remain with the ATV in the event of a resale. If the ATV changes ownership, contact the KYMCO USA Customer Service Department for information on how to register the new owner.

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

As the owner and rider of a KYMCO ATV, you should become thoroughly familiar with your ATV's basic operation, maintenance and storage procedures. Please read and understand the entire Owner's Manual before operating your KYMCO ATV to ensure safe and proper use. Always operate your ATV 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 ATV. As such, no retroactive obligation shall be incurred.

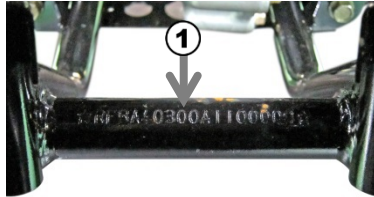
### PARTS AND ACCESSORIES

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

## GENERAL INFORMATION

### VEHICLE IDENTIFICATION NUMBER (VIN)

The VIN ① is located on the lower-front cross-member of the frame.



### ENGINE SERIAL NUMBER (ESN)

The ESN is located on the back of the back of the engine crankcase and is visible from the side of the engine.

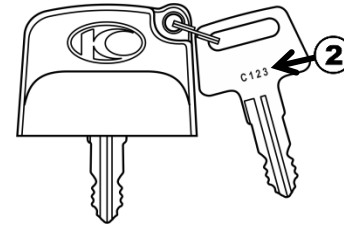
The VIN and ESN are required by your KYMCO dealer to order proper parts, perform service, and to submit warranty claims. Always provide your ATV's year, model, VIN and ESN when contacting an authorized KYMCO ATV dealer for assistance.

■ **NOTE: Record your VIN and ESN information on the inside, back cover of this manual.**

Warranty repairs will be declined by KYMCO if the VIN or ESN or 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 detail.

### IGNITION SWITCH KEY

Your KYMCO ATV is delivered with two ignition switch keys. Keep the second key as a spare, and store it in a safe place. An identifying number ② is stamped on each key. Use this number when ordering a replacement key.



### IGNITION SWITCH OPERATION

Use your ATV's key to "unlock" and operate the ignition switch. The ignition switch has two positions.

**OFF** position - All electrical circuits (except the accessory plug) are off. The engine will not start or run. The key can be removed in this position.

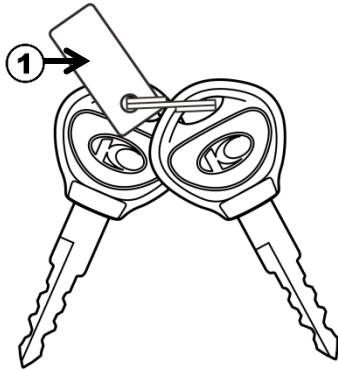
**ON** position - The ignition circuit is complete and the engine can start and run. The key cannot be removed in this position.

■ **NOTE: The accessory plug is powered by the battery at all times.**

## CONTROL LOCATIONS & FUNCTIONS

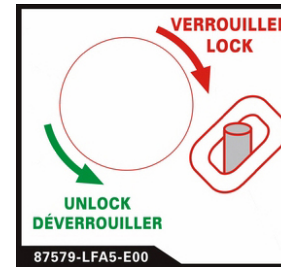
### STEERING LOCK KEY

Your KYMCO ATV is delivered with two steering lock keys. Keep the second key as a spare, and store it in a safe place. An identifying number ① is stamped on each key. Use this number when ordering a replacement key.



### STEERING LOCK OPERATION

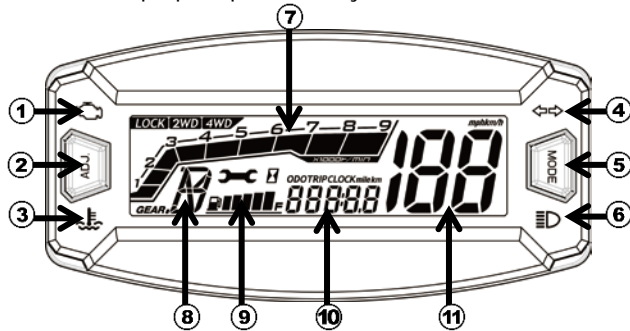
To engage the steering lock, turn the handlebar to the right and rotate the key clockwise in the lock. Never engage the steering lock while the engine is running.



# CONTROL LOCATIONS & FUNCTIONS

## INSTRUMENTS & INDICATOR LIGHTS

The instruments and indicator lights provide you information vital to the safe and proper operation of your ATV.



1. CELP Indicator
2. ADJ Button
3. Coolant Temperature Warning Indicator
4. Turn Signal Indicator
5. MODE Button
6. High Beam Indicator
7. Tachometer
8. Gear Position Indicator
9. Fuel Gauge
10. Clock/ Hour Meter/ Odometer/ Trip Meter
11. Speedometer

### 1. CELP Indicator

If it flashes, it indicates that a fault has been detected in the vehicle's EFI or electrical system. Require immediate inspection by a KYMCO dealer.

- **NOTE:** The CELP indicator lights momentarily when the vehicle is turned ON before the engine is running.

### 2. ADJ Button

This button is used to select ODO, TRIP A and TRIP B. This button is also used to adjust the time and reset the trip meter.

### 3. Coolant Temperature Warning Indicator

When the coolant temperature reaches a specified level, this indicator comes on. If the indicator comes on during operation, stop the engine quickly and allow the engine to cool down for about 10 minutes.

- **NOTE:** If the warning light does not go on when ignition switch is "ON", there may be a problem with the light itself. See an authorized KYMCO dealer for inspection.

## CONTROL LOCATIONS & FUNCTIONS

### 4. Turn Signal Indicator

It flashes when the either turn signal is being used.

### 5. MODE Button

This button is used to select km/h, mph, km or mile settings on the speedometer and trip meter. This button is also used to adjust the clock time and reset the trip meter.

### 6. High Beam Indicator

The high beam indicator will light up when the headlight switch is turned to High beam (≡D).

### 7. Engine Tachometer

This circular gauge displays the engine's revolutions per minute (RPM) on a calibrated analog dial.

### 8. Gear Position Indicator

Indicates which transmission mode is selected:

R=Reverse N=Neutral L=Low Range H=High Range

### 9. Fuel Gauge

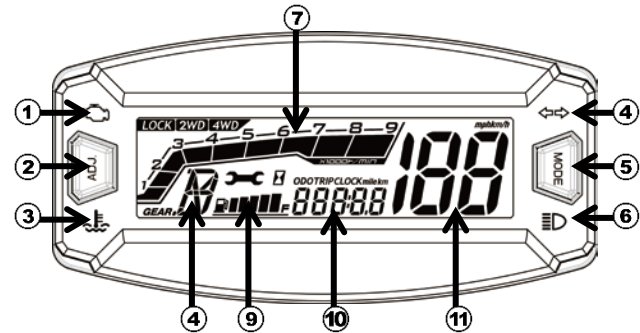
The fuel gauge shoes the approximate fuel supply available in a graduated display. The normal operating fuel range is with the section between the segments F to E or fuel indicator. When the segment E or the fuel indicator flashes, fuel will be low and you should refill the tank as soon as possible.

### 10. Clock/ Hour Meter/ Odometer/ Trip Meter

Display time, total engine hours, total miles/ kilometers traveled, or trip miles/ kilometers traveled.

### 11. Speedometer

Indicates the approximate ATV speed in miles per hour (MPH) or kilometers per hour (km/h)

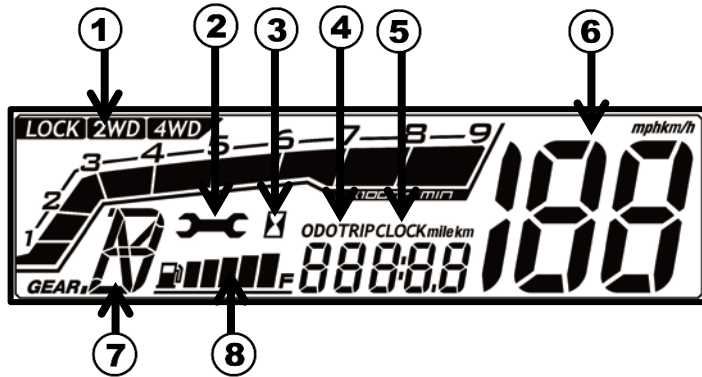





# CONTROL LOCATIONS & FUNCTIONS

## MULTIFUNCTION DISPLAY

Using numbers and icons, the multi-function display provides you essential and convenient vehicle information.



1. LOCK/ 2WD/ 4WD
2.  indicator
3. Engine running time (hour-meter)
4. Odometer/Trip meter
5. Digital clock
6. Speedometer
7. Gear select display
8. Fuel level gauge

### 1 A - Differential lock indicator

The front axle of this ATV is equipped with a lockable differential that allows the operator to choose between an open or closed differential mode for riding in low traction conditions. If the differential is in the "LOCK" mode, the indicator will be illuminated.

### 1 B - 2WD indicator

If the drive system is in the two-wheel drive mode (2WD) this indicator will illuminate.

### 1 C - 4WD indicator (Equipped models)

If the drive system is in the four-wheel drive mode (4WD) this indicator will illuminate.

### 2 EFI system electric parts fault indicator

Turn the ignition switch to "ON" position the indicator will be lighting until the engine starting and run normally. If the Electronic Fuel Injection system (EFI) detects a fault, the icon will illuminate. If the icon stays on while the engine is running, consult your KYMCO dealer immediately.

## CONTROL LOCATIONS & FUNCTIONS

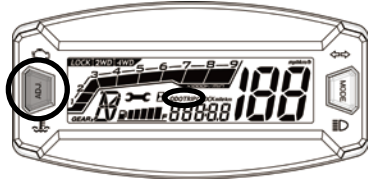
### 3. Engine running time (hour-meter)

The hour meter shows the total hours that the Engine has been operated. This meter cannot be reset.

### 4 Odometer/Trip meter

The odometer shows the total mileage in Km or in mph.

The tripmeter shows the trip distance in Km or in mph.



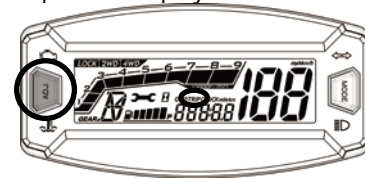
Press and hold the ADJ button for more than 2 seconds to select odometer (ODO) or trip meter (TRIP) display.



Press and hold the MODE button for more than 2 seconds to select miles or kilometer (Km) display.

### To reset the trip meter:

1. Press and hold the ADJ button for more than 2 seconds to select the trip meter display.



2. Press and hold the MODE and the ADJ buttons at the same time until the trip meter setting returns to ZERO.



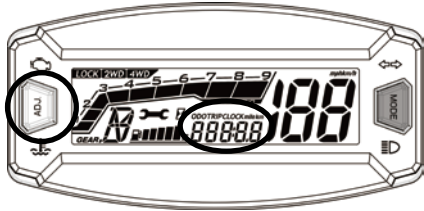
# CONTROL LOCATIONS & FUNCTIONS

## 5 Digital clock

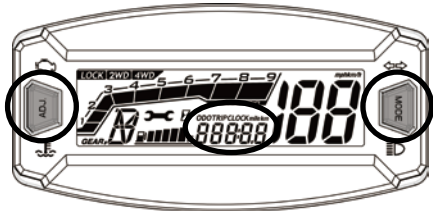
The clock displays the time (hours and minutes) when the ignition is "ON".

NOTE: The clock can only be adjusted in the ODO mode. Exit the trip meter before adjusting the clock setting.

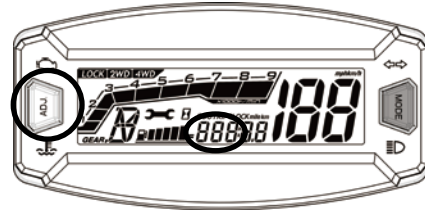
- A. Turn the ignition switch "ON"
- B. Press and hold the ADJ button until CLOCK is displayed.



- C. Press and hold the ADJ button and MODE button approximately 3 seconds until the hour display starts to flash

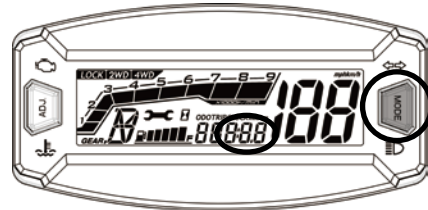


- D. Press the ADJ button to set the hour.



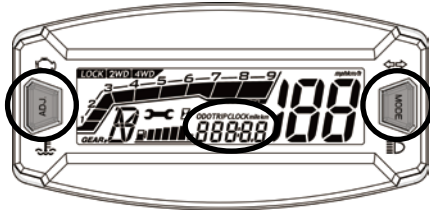
- The hour display will read from 1 to 24 and may be cycled rapidly by holding the MODE button down for 3 seconds.

- E. Press the MODE button to toggle the clock to the minutes display (the minutes digits will flash), then press the ADJ button to set the minutes.



## CONTROL LOCATIONS & FUNCTIONS

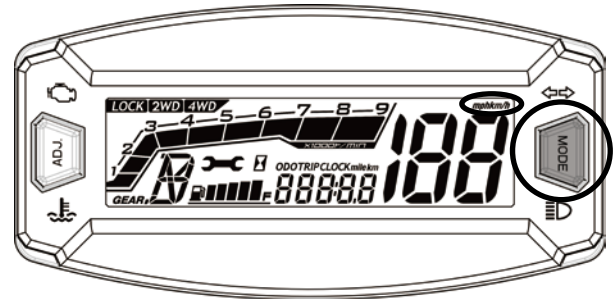
- F. To exit the adjustment mode, press and hold the MODE and the ADJ buttons at the same time.



- NOTE:  
Power for the clock memory is supplied through the 15-amp accessory fuse; the gauge verifies when the ATV's ignition is turned ON. If the clock loses its memory power supply (failed fuse, etc.), the gauge will "power-up" reset, and shut down repeatedly until clock memory power supply is restored. Always check the 15-amp accessory fuse first if this gauge begins to cycle through this "power-up" sequence.

### 6. Speedometer

This display shows the riding speed in MPH or km/h.

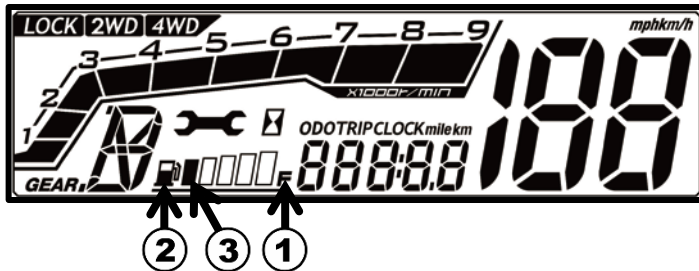


Press and hold the MODE button for more than two seconds to toggle between MPH or km/h display.

## CONTROL LOCATIONS & FUNCTIONS

### 7 Fuel level gauge

The fuel gauge shows the approximate fuel supply available via a graduated display. The level will normally range from "F" when the fuel tank is fully filled, to "E" when it is depleted. When the fuel level gets very low, the needle will be at the "E" segment and the low fuel level warning indicator will begin to flash to alert you that fuel is needed immediately.



1. "F" segment - tank is full of fuel
2. "Gas Station" segment - tank is empty of fuel
3. Flashing indicator alerts operator to add fuel

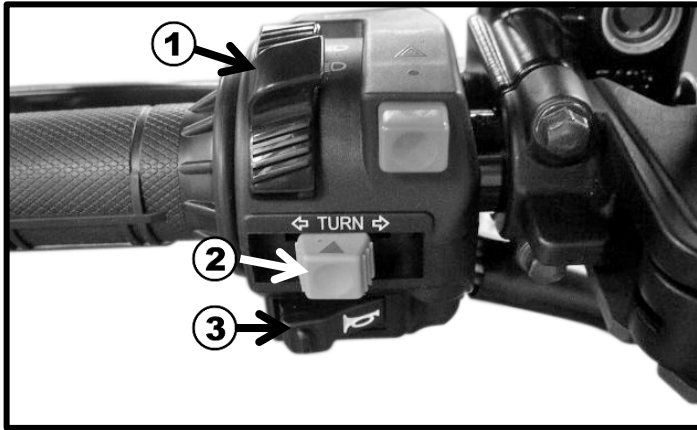
### 8. Gear select display

The gear select display shows the gear position of the vehicle

- NOTE: If gear select display shows the "E", you may lose control of the transmission shifting. Stop driving immediately and see an authorized KYMCO dealer to check.

# CONTROL LOCATIONS & FUNCTIONS

## LEFT HAND HANDLEBAR SWITCHES



### Headlight Hi / Lo Switch①

Use the HI/LO switch to select the high or low headlight beam, or no headlight, when the ignition switch is in the LIGHTS position.

When the switch is in the  position, the high beam will illuminate.


When the switch is in the  position, the low beam will illuminate.


### CAUTION

When you turn on the ignition switch and engine is not running the battery may become discharged result to damage.

### Turn signal switch②

Use the turn signal switch while turning to another direction or shifting to another lane. The turn signal light will flash when the switch is operated and ignition switch is ON.

 " For turning to the "LEFT".

 "For turning to the "RIGHT".

The instrument turn signal indicator light will also flash when the switch is operated. Push the switch and it will release.

### CAUTION

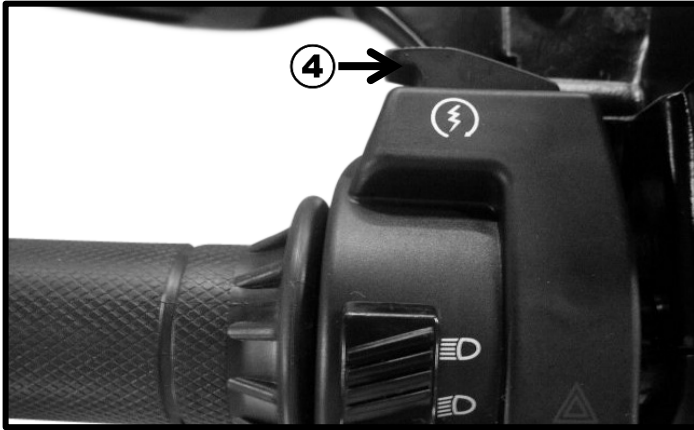
The turn signal light will not release automatically. Be sure to reset it after use; otherwise it may affect the traffic safety.

The turn signal switch does not work when the ignition switch is "OFF".

### Horn button③

When the ignition switch is ON, push the horn button and it will sound.

## CONTROL LOCATIONS & FUNCTIONS



### Starter Button④

Pressing this button activates the starter motor. Before starting the engine, make sure the ignition switch is in the ON position, the transmission is in neutral, and the parking brake is engaged.

- **NOTE:** Your ATV has a safety feature which prevents starting when the transmission is not in neutral.

#### **⚠ CAUTION**

Review the starting instructions before starting the engine



### Hazard Switch⑤

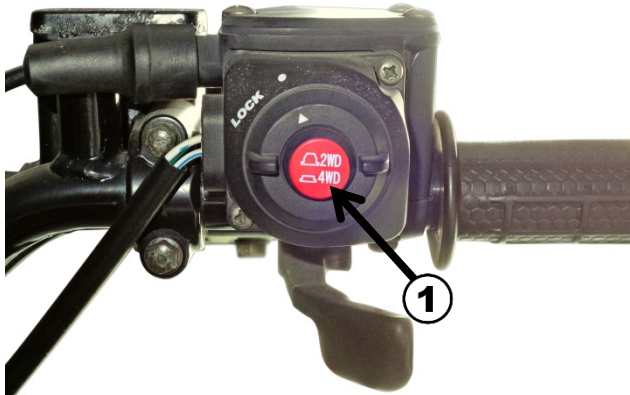
When the hazard switch is pressed, the right and left turn signal lights flash together. When the hazard switch is pressed again, the left turn signal lights go out together.

#### **⚠ CAUTION**

Turn on this switch when parking or there is a special condition. After the hazard switch is turned on, it will not reset automatically. Be sure to reset it after use to avoid affecting the traffic safety. When the signal lights are flashing, the hazard switch does not work. When the ignition switch is "OFF", the hazard light will still work.

## CONTROL LOCATIONS & FUNCTIONS

### RIGHT HAND HANDLEBAR SWITCHES



#### 2WD/4WD Selector Switch

The 2WD/4WD selector switch ① allows you to operate your ATV in either two-wheel drive (rear wheels powered) or four-wheel drive (all wheels powered). This switch also allows you to lock the front differential in 4WD mode.

2WD should be adequate for normal riding on flat, dry, hard surfaces. 4WD can be used for rough trail conditions, while 4WD with differential lock can be used for very rough terrain and low traction conditions.

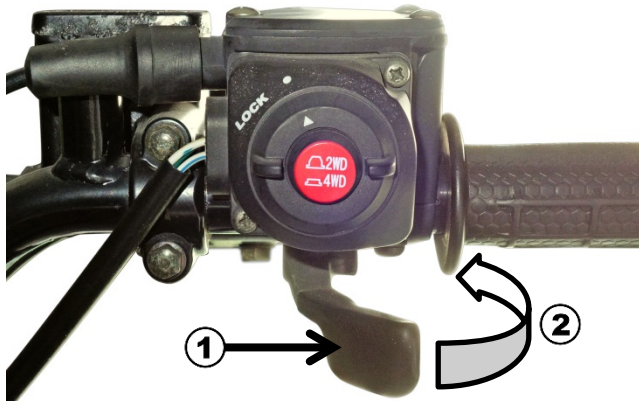
#### CAUTION

Never operate the 2WD/4WD selector switch while your ATV is in motion as you may damage the differential.



# CONTROL LOCATIONS & FUNCTIONS

## THROTTLE LEVER



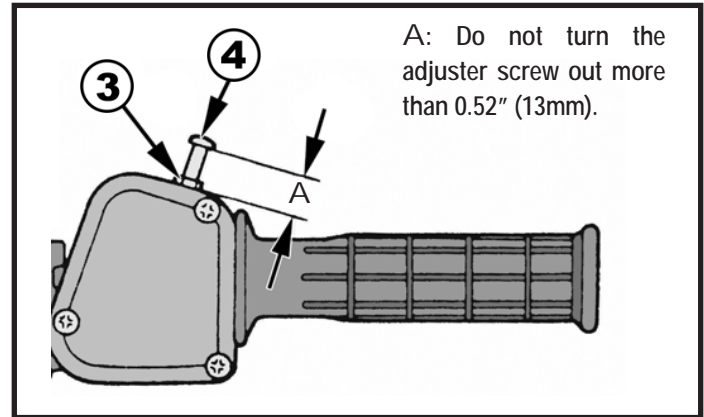
The throttle lever ① is located below the drive selector switch on the right side of the handlebar.

The position of the throttle lever controls engine output. Operate the throttle lever with your thumb. Push it forward to increase engine RPM ②, allowing the lever to return to its original position decreases engine RPM.

### **⚠ WARNING**

If the throttle malfunctions it will make it difficult to control the speed of the ATV. This could cause an accident. Verify the throttle lever operation before you start the engine. If it does not work smoothly, check for the cause and correct it before riding the ATV. Consult with your KYMCO dealer if you cannot find or resolve the problem yourself.

## THROTTLE LIMITER



Throttle lever travel may be limited by adjusting the throttle limiter screw. The throttle limiter permits you to adjust the ATV's speed to match the rider's skill and experience. To adjust the throttle limiter, use the following procedure:

1. Loosen the locking nut ③
2. Turn the throttle limiter screw ④ clockwise to decrease maximum engine RPM or counterclockwise to increase maximum engine RPM
3. Tighten the locking nut securely

■ NOTE: Do not turn the adjuster screw out more than 0.52" (13mm).

## CONTROL LOCATIONS & FUNCTIONS

### **⚠ WARNING**

Improper adjustment of the throttle limiter screw can cause damage to the throttle cable. A damaged throttle cable will affect throttle operation and can cause an accident where you can be injured or killed. Use care when adjusting the throttle limiter so the adjuster screw is not turned out more than 0.52" (13mm). Refer to the throttle limiter adjustment on the previous page plus the throttle lever free play adjustment. If you lack the ability to adjust these items properly, contact your KYMCO dealer for assistance.

- **NOTE:** Your ATV is equipped with an ignition limiter that retards timing when maximum engine RPM is approached. If this RPM limiter is activated, it can be misinterpreted as a high-speed ignition misfire.

### FRONT & REAR BRAKE LEVERS



Your KYMCO ATV is equipped with front and rear hydraulic brakes that can be activated with hand and foot controls.

- ① **LEFT HAND BRAKE LEVER** - Activates rear brake
- ② **RIGHT HAND BRAKE LEVER** - Activates front brakes

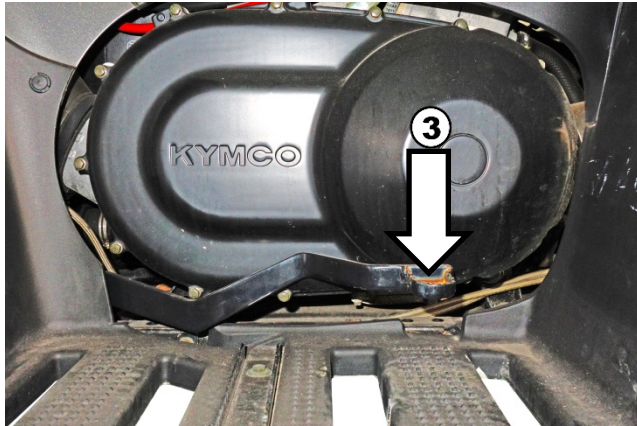
The left hand brake ① mounted on the left handlebar activates the rear brake on your ATV. To apply the brake, squeeze the lever towards the handlebar grip.

The hand brake ② mounted on the right handlebar activates the front brakes on your ATV. To apply the front brakes, squeeze the lever towards the handlebar grip.

## CONTROL LOCATIONS & FUNCTIONS

### PARKING THE ATV

#### REAR BRAKE PEDAL



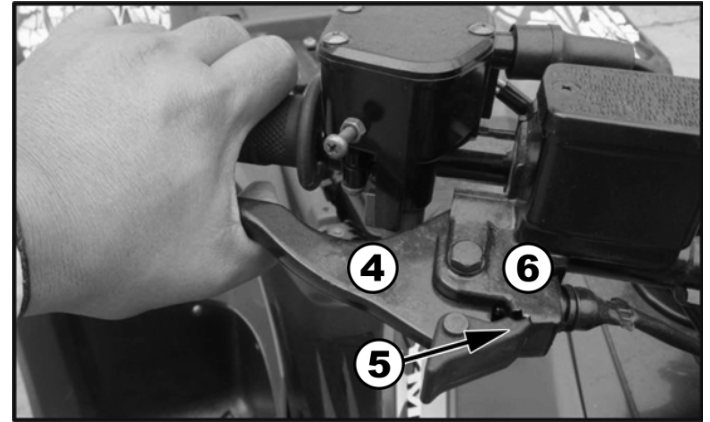
Your vehicle is equipped with front and rear hydraulic brakes that can be activated with hand and foot controls.

#### ③ REAR BRAKE PEDAL - Activates rear brake

The rear brake pedal ③ is mounted in front of the right foot rest. The rear brake pedal activates the rear brake of your ATV. To apply the brake, press down on the pedal with your foot.

### PARKING BRAKE

#### Front Parking Brake



When you are not riding your ATV, set the parking brake to prevent the vehicle moves. To engage or release the parking brake (brake lever lock), use the following procedure:

1. Squeeze the hand brake lever ④ towards the hand grip
2. Press the brake lever lock ⑤ so it engages the steps on the brake master cylinder mount ⑥
3. Slowly release your grip on the brake lever; the lever lock should keep the front brakes applied
4. Release the parking brake's lever lock by squeezing the brake lever. Once the lock is disengaged the brake lever will return to its released position.

## CONTROL LOCATIONS & FUNCTIONS

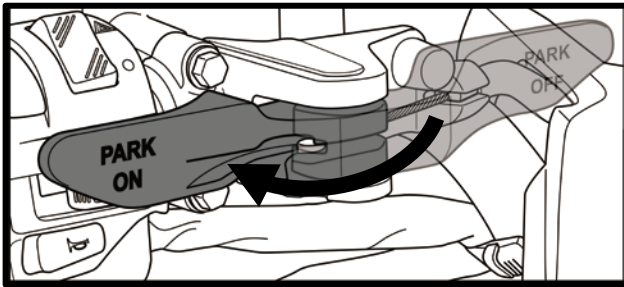
### Rear parking brake

To set the rear parking brake, move the lever to position (A).

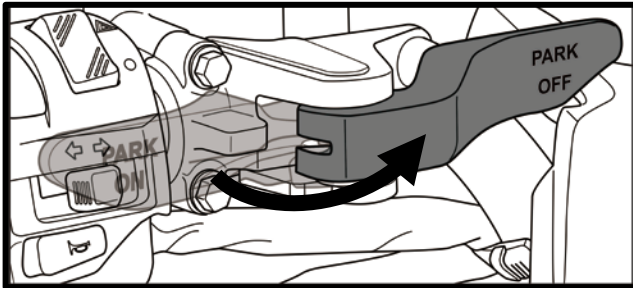
**Only set the parking brake when parking and before starting the engine.**

To unlock the rear parking brake, move the lever to position (B).

(A)



(B)



### ⚠ CAUTION

Using the parking brake in freezing weather may cause the brake to freeze in the locked position.

### ⚠ WARNING

For your safety and to prevent damage to your vehicle or other property, use the parking brake when you are not riding your ATV. If you do not use the parking brake, your ATV could move unexpectedly, especially when you are starting the engine. This could cause an accident or a collision. If you ride the ATV without releasing the parking brake, the brake could overheat causing a failure or causing the brake pads to wear out prematurely. Premature brake wear or a brake system failure could cause an accident. Remember to always set the parking brake when you stop your ATV and keep it engaged as you start the engine. Remember to release the parking brake as you start to ride the ATV.

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

## CONTROL LOCATIONS & FUNCTIONS

### DRIVE MODE SELECT LEVER



This KYMCO ATV is equipped with an automatic, dual-range transmission with reverse capability. To shift your ATV into the different drive modes, use the drive model select lever :

1. To engage HIGH (H) range from neutral (N), move the drive mode select lever forward.
2. To engage LOW (L) range from HIGH (H) range, move the lever outward and forward.
3. To engage reverse (R) gear from neutral (N), move the shift lever forward, outward and back to the (R) position.

- **NOTE:** The HIGH range is for normal riding with light loads. The LOW range is for carrying heavy loads or towing. Compared to HIGH range, the LOW range position provides slower speed and greater torque to the wheels.

#### 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 drive system.

#### CAUTION

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

## CONTROL LOCATIONS & FUNCTIONS

### FILL THE GAS TANK

#### **⚠️ WARNING**

Always full the ATV gas tank in a well-ventilated area.  
Never add gasoline to the gas tank near any open flames  
or with the engine running or hot.  
**DO NOT SMOKE** while filling the gas tank.

Since gasoline expands as its temperature increase, the gas tank on your ATV 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 ATV is then moved to a warm area.

Allow the ATV's engine to cool before filling the gas tank. Care must be taken not to overfill the tank. If overfilled, gas may leak onto the engine creating a fire hazard.

#### **⚠️ WARNING**

Do not spill or overflow gasoline when filling gas tank.  
This will greatly increase the risk of a fire hazard. Always  
allow the engine to cool before filling the gas tank.

#### **⚠️ WARNING**

**Do not over fill the gas tank.**

Tighten the tank cap securely after filling the ATV's gas tank.

### SEAT LATCH



To remove the seat, lift up on the latch ① release which located at the rear of the seat, then raise the rear part of the seat and slide it rearward.

To remount the seat, slide the front of the seat into the seat retainers and push down firmly on the rear of seat. The seat should automatically latch into position.

#### **⚠️ WARNING**

Make sure the seat is secure before mounting and riding the ATV. Severe personal injury may result if the seat is not properly secured.



## CONTROL LOCATIONS & FUNCTIONS

### FLAG POLE BRACKET

The rear rack of your ATV is equipped with a flag pole bracket. Flag poles are optional equipment available from your KYMCO dealer. Mounting a flag pole to your ATV, via the flag pole bracket, increases your visibility during operation.

- **NOTE: Flag poles are required safety items in some riding areas. Check the local regulations before riding.**

### TRAILER HITCH

#### **⚠ WARNING**

**Never use the cargo racks as a towing or trailering point.**

Your KYMCO ATV is equipped with a frame-mounted receiver for a standard 5.1 cm (2 in.) receiver hitch. A standard receiver hitch must be purchased separately.

When loading a trailer properly, two items are critical: Gross Trailer Weight (the weight of the trailer plus cargo) and Trailer Tongue Weight.

#### **⚠ WARNING**

**Make sure that the load in the trailer is properly secured and will not shift while moving. Also, do not overload the trailer's capacity.**

#### **⚠ WARNING**

### **NEVER EXCEED ANY OF THE ATV'S WEIGHT RESTRICTIONS**

Trailer Tongue Weight is the downward force exerted on the hitch by the trailer coupler when the trailer is fully loaded and the coupler is at its normal towing height.

Always maintain a slow speed when trailering and towing, and avoid sudden accelerations, quick maneuvers, and sudden stops. Braking distance will be affected when towing a trailer, always maintain slow speed and allow for more stopping distance than when not towing a trailer.

#### **⚠ WARNING**

**Riding your ATV when towing a trailer requires extreme caution or the activity will be hazardous. Trailer towing will affect the handling and braking of your ATV. You should only tow at low speeds and never exceed 10 mph. Avoid sudden accelerations and stopping. Do not make quick maneuvers. Avoid uneven surfaces and do not tow on hills. Never carry passengers in a trailer unless the trailer is designed for such use and has a rigid tow bar. Allow for more stopping distance when towing a trailer.**

## PRE-RIDE INSPECTION

Before using your ATV, perform the checks listed in the table below and on the following pages.

ITEM	ROUTINE	PAGE
DRIVE SELECT LEVER	<ul style="list-style-type: none"> <li>• Check the lever for proper operation.</li> </ul>	34~37
BRAKE	<ul style="list-style-type: none"> <li>• Check operation, condition, and brake fluid level.</li> <li>• Fill with DOT4 brake fluid if necessary.*</li> </ul>	38, 92~93
FUEL	<ul style="list-style-type: none"> <li>• Check fuel level.</li> <li>• Fill with oil if necessary.*</li> </ul>	39~40
ENGINE OIL, FINAL GEAR AND DIFFERENTIAL GEAR OIL	<ul style="list-style-type: none"> <li>• Check fuel level.</li> <li>• Fill with oil if necessary.*</li> <li>• Check for leakage.</li> </ul>	41~42, 83~85
DRIVE SHAFT BOOTS	<ul style="list-style-type: none"> <li>• Check for the damage.</li> </ul>	104~105
THROTTLE	<ul style="list-style-type: none"> <li>• Check for proper throttle cable operation.</li> </ul>	25, 91
WHEELS AND TIRES	<ul style="list-style-type: none"> <li>• Check tire pressure. Check for wear and damage.</li> </ul>	43~44, 96~99
FITTINGS AND FASTENERS	<ul style="list-style-type: none"> <li>• Check all fittings and fasteners.</li> </ul>	54~56
SWITCHES	<ul style="list-style-type: none"> <li>• Check for proper function.</li> </ul>	22~26
LIGHTS	<ul style="list-style-type: none"> <li>• Check for proper operation.</li> </ul>	102~103
COOLANT	<ul style="list-style-type: none"> <li>• Check coolant level. Check for coolant leakage.</li> <li>• Fill with coolant if necessary.*</li> </ul>	45, 94~96

\* Only add enough fluid to achieve the recommended fluid level. Do not overfill any fluid.



## PRE-RIDE INSPECTION

### WARNING

#### **POTENTIAL HAZARD**

Failure to inspect the ATV before operation. Failure to properly maintain the ATV.

#### **WHAT CAN HAPPEN**

An accident causing personal injury or mechanical damage to the ATV.

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

Always inspect your ATV each time you use it to make sure it is in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in this OwnersManual.

## PRE-RIDE INSPECTION

### DRIVE MODE SELECT LEVER & REVERSE OPERATION

#### ⚠ CAUTION

Before shifting, you must stop the ATV and return the throttle lever to its fully closed position so the engine will return to proper idle speed. If you do not do so, you may damage the transmission.

Apply the rear brake and shift the drive mode select lever into the position before turning off the engine when parking on an incline. If you park on an incline with the shift lever in H, L or R position, the weight of the vehicle against the wheels will make it difficult to shift into neutral (N). When parked on an incline, always engage the parking brake before shifting the transmission.

#### SHIFTING: Neutral to HIGH, and HIGH to LOW

1. Bring the ATV to a complete stop and return the throttle lever to the closed position.
2. Apply the brakes, and then shift by moving the select lever along the shift guide to the desired drive mode.

- **NOTE:** Make sure the drive mode select lever is completely shifted into position. The transmission may not engage properly if the lever is not properly shifted into place.



Drive mode selector lever

L - LOW range

H - HIGH range

N - Neutral

R - Reverse mode

P - Park mode

## PRE-RIDE INSPECTION

### SHIFTING: Neutral to Reverse, and Reverse to Park

1. Bring the ATV to a complete stop and return the throttle lever to the closed position.
2. Apply the brake pedal.
3. Shift from neutral to reverse or from reverse to park, and vice versa, by moving the select lever along the shift guide to the desired drive mode.

■ **NOTE:** When in reverse mode, the reverse indicator light should be illuminated on the multifunction display. If it fails to illuminate, see your KYMCO dealer for inspection or repair.

4. Before moving the ATV in reverse, check behind you for people or obstacles. If clear, release the rear brake pedal.
5. Open the throttle lever gradually and continue to watch to the rear as you back the ATV.

■ **NOTE:** Operation in reverse differs significantly from forward driving. Be careful and use small throttle lever movements to maintain proper speed and control of the ATV.



### ⚠ WARNING

#### POTENTIAL HAZARD

Improper operation in reverse.

#### WHAT CAN HAPPEN

You could hit an obstacle or a person behind you, resulting in serious injury.

#### HOW TO AVOID THE HAZARD

When you shift into reverse, make sure there are no obstacles or people behind you. When it is safe to proceed, go slowly.

## PRE-RIDE INSPECTION

### DRIVE MODE SELECT LEVER

#### ⚠ CAUTION

Before shifting, you must stop the ATV and return the throttle lever to its fully closed position so the engine speed will settle to the specified idle speed. Otherwise, the transmission may be damaged.

#### ⚠ WARNING

##### POTENTIAL HAZARD

Operating your ATV with an improperly adjusted drive mode select lever.

##### WHAT CAN HAPPEN

You may lose control of the transmission shifting, which could lead to an accident.

##### HOW TO AVOID THE HAZARD

Make sure that the neutral indicator lamp illuminates when the drive mode select lever is moved into the "N" position, and that it comes on before starting the engine.

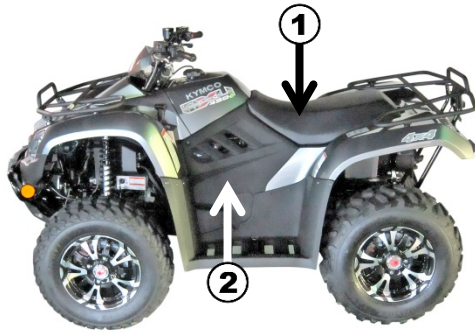


**Check the operation of the drive mode select lever before starting the engine.**

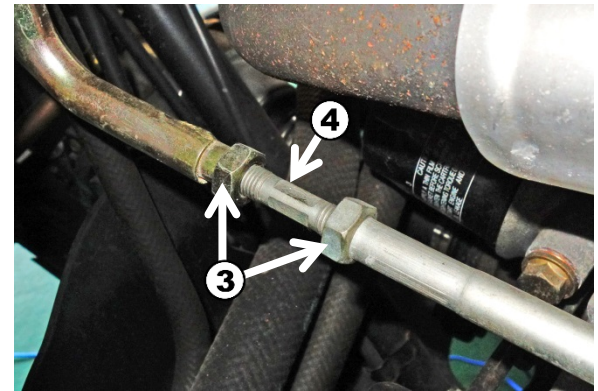
1. Make sure moving the shift lever into the "N" position of the shift guide.
2. Turn the ignition switch to "ON" and check the neutral indicator lamp comes on.
3. If the neutral indicator lamp does not come on, then see DRIVE MODE SELECT LEVER ADJUSTMENT.

# PRE-RIDE INSPECTION

## DRIVE MODE SELECT LEVER ADJUSTMENT



1. With the ignition off (and the engine is cool), remove the seat ① and remove the left body panel ②
2. Loosen the locknuts ③ of the shift rod ④. Shift the transmission into neutral using the shift lever and/or turning the shift rod (the neutral lamp will illuminate).
3. Rotate the shift rod ④ clockwise or counterclockwise until the drive mode selector lever is in the "N" position of the shift guide. At that point, tighten the locknuts firmly.
4. Reinstall the body panels and seat.



## PRE-RIDE INSPECTION

### FRONT AND REAR BRAKES

1. Inspect the brake systems and verify that there is no brake fluid leakage.
2. Check the operation of the brake levers and pedal. They should move smoothly and there should be a firm feel when the brakes are applied. If not, have your ATV inspected by a KYMCO dealer.
3. Test the brake operation at slow speeds as you start your ride to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brakes for wear.

### WARNING

#### **POTENTIAL HAZARD**

Riding your ATV with improperly operating brakes.

#### **WHAT CAN HAPPEN**

You may lose braking ability and be unable to stop, which could lead to an accident.

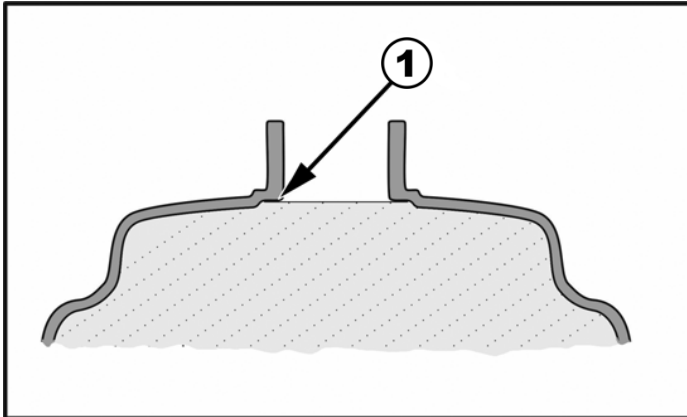
#### **HOW TO AVOID THE HAZARD**

Always check the brakes at the start of every ride. Do not ride the ATV if you find any problems with the brakes. If a problem cannot be corrected via the adjustment procedures discussed in this manual, have the ATV inspected by a KYMCO dealer.

## PRE-RIDE INSPECTION

### FUEL

Fill the fuel tank when necessary, and make sure there is sufficient gasoline in the tank for the riding you plan to do. Before riding, check the fuel tank and other fuel-related items, such as hoses, for any fuel leaks. If a fuel leak is present, contact your KYMCO dealer for repair before riding the ATV.



- **NOTE:** When filling the fuel tank, do not allow the fluid level to be higher than the base of the fuel filler neck ①.
- **NOTE:** Avoid getting dirt, dust or water in the fuel tank. Never use stale or contaminated gasoline or an oil/gasoline mixture.

### Fuel (continued)

#### Recommended fuel:

##### UNLEADED GASOLINE

Research octane rating: 91 or higher

#### Fuel tank capacity:

Total: 3.96 US gal (15 L)

Reserve 0.71 US gal (2.7 L)

Your KYMCO ATV's engine has been designed to use regular, unleaded gasoline with a research octane reading of 91 or higher (or pump octane value of 86 or higher). If knocking or pinging occurs, use a different brand of gasoline or use premium unleaded fuel. Unleaded fuel is good for the environment and will provide you with longer spark plug life and reduced maintenance costs.

Use unleaded fuel only because it produces fewer engine and spark plug deposits and extends the life of the exhaust system.



## PRE-RIDE INSPECTION

### WARNING

#### POTENTIAL HAZARD

Improper care when refueling.

#### WHAT CAN HAPPEN

Fuel can spill, which can cause a fire and result in severe injury.

Fuel Expands when it heats up; if the fuel tank is over- filled, fuel could spill out due to heat from the engine.

#### HOW TO AVOID THE HAZARD

As noted on the previous page, do not overfill the fuel tank. Be careful not to spill fuel, especially on the engine or exhaust system. Wipe dry any spilled fuel immediately. After fueling, make sure the fuel cap is closed securely.

Do not refuel right after the engine has been running and is very hot.

## FUEL-RELATED TROUBLESHOOTING

If your ATV is failed to start or run properly, check the following symptoms and their possible causes. If your inspection fails to resolve the problem, consult your KYMCO dealer.

### Engine will not start or poor acceleration:

- \* Intake air leak
- \* Fuel contaminated/deteriorated
- \* Pinched or clogged fuel hoses
- \* Faulty fuel pump

### Engine stalls, hard to start, or rough idle:

- \* Intake air leak
- \* Fuel contaminated/deteriorated
- \* Idle speed mis-adjustment
- \* TPS/ISC service/reset is required (see your KYMCO dealer)

### Poor performance (drivability) or poor fuel economy:

- \* Pinched or clogged fuel hoses
- \* Faulty fuel injector

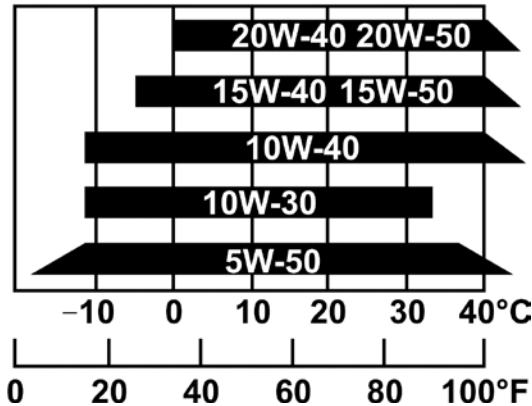


## PRE-RIDE INSPECTION

### ENGINE OIL

The recommended engine oil to use in the ATV is rated SE, SF or SG under the API service classification. These oils meet all the lubrication requirements of a KYMCO ATV engine. The recommended oil viscosity is SAE 5W-30. Ambient temperature should determine the correct weight of oil. See the viscosity chart below or consult an authorized KYMCO ATV dealer for guidance.

### ENGINE OIL VISCOSITIES



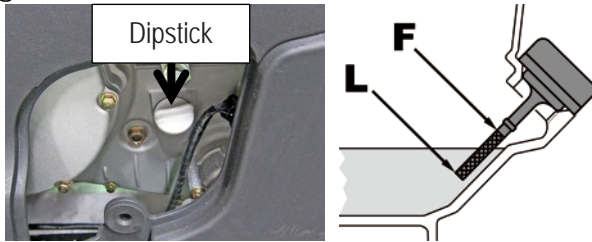
Engine oil type:	SAE 5W-30 API SJ type
Engine oil capacity:	
Oil change:	2.33 qt (2.2 L)
Oil & filter change:	2.54 qt (2.4 L)
Total capacity:	3.01 qt (2.85 L)

### ⚠ CAUTION

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

## PRE-RIDE INSPECTION

### Engine Oil Level Check



- A. Park the ATV on a level ground
- B. Unscrew the dipstick, remove it and wipe it with a clean cloth
- C. Reinstall the dipstick, thread it into the engine case.
- D. Unscrew the dipstick and visually note the oil level. The oil level should be between the maximum level (F) and the minimum level (L). If the level is too low, add oil to raise the oil amount to the proper level.

### **⚠ CAUTION**

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

### Recommended Front Differential/ Rear Drive Lubricant

The recommended lubricant for your KYMCO ATV (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.

# PRE-RIDE INSPECTION

## TIRES

### WARNING

#### POTENTIAL HAZARD

Operating your ATV with improper tires, or with improper or uneven tire pressures.

#### WHAT CAN HAPPEN

Use of improper tires on the ATV, or operation of the ATV with improper or uneven tire pressures, may cause loss of control, increasing the risk of an accident.

#### HOW TO AVOID THE HAZARD

1) The tires listed below have been approved by KYMCO for use on your ATV. Other tire combinations are not recommended.

MXU450i	Size	Type
Front	24 X 8 -12	Tubeless
Rear	24 X 10 -12	Tubeless

2) The tires should be set to the recommended pressures listed in the table on the opposite page.

### WARNING

MXU450i	Standard	Minimum	Maximum
Front	4.0 psi (0.28 kgf/cm <sup>2</sup> , 27.5 kpa)	3.5 psi (0.25 kgf/cm <sup>2</sup> , 25 kpa)	4.5 psi (0.32 kgf/cm <sup>2</sup> , 32 kpa)
Rear	4.0 psi (0.28 kgf/cm <sup>2</sup> , 27.5 kpa)	3.5 psi (0.25 kgf/cm <sup>2</sup> , 25 kpa)	4.5 psi (0.32 kgf/cm <sup>2</sup> , 32 kpa)

Check and adjust the tire pressures when the tires are cold.

Tire pressures must be equal on both sides of the ATV.

3) Tire pressures below the specified minimum amount could cause the tire to dislodge from the rim under severe riding conditions. Do not allow the tire pressures to go below the minimums listed in the table above.

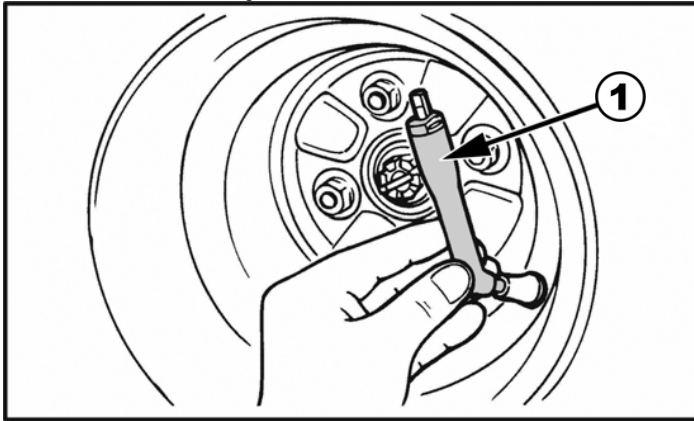
4) Higher tire pressures could cause a tire to rupture. Inflate the tires very slowly and carefully. Fast inflation could cause a tire to rupture.

## PRE-RIDE INSPECTION

### Measuring tire pressure:

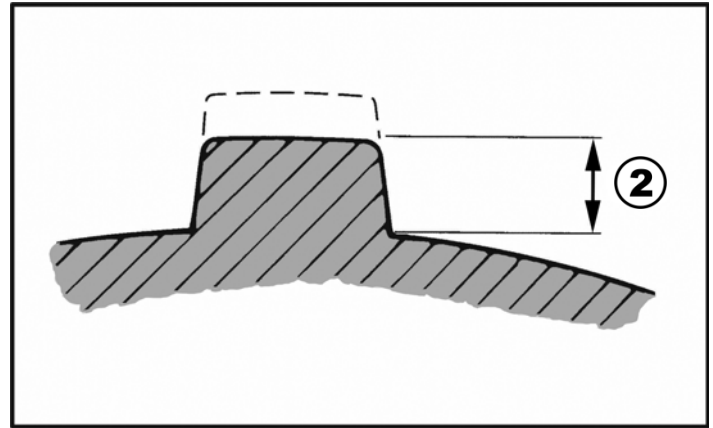
Use the supplied low-pressure tire gauge (from the tool kit).

- **NOTE:** A low-pressure tire gauge ① is included as standard equipment with your ATV. This gauge is different than an automotive-type tire pressure gauge because it can properly measure the lower pressures used in an ATV tire. As you inspect the tire pressures, make two readings and use the second reading to determine if your tire pressure is proper or requires adjustment. Dust, dirt or moisture in the gauge could affect the accuracy of the first measurement.



### Tire wear limit:

When the tire groove depth ② decreases to 0.16 in (4.0 mm) due to wear, replace the tire.



- **NOTE:** To maintain proper handling of your ATV, replace tires as a front-pair, or a rear-pair, or all four tires at the same time.

## PRE-RIDE INSPECTION

### COOLANT

Check the coolant level in the reservoir tank ① when the engine is cold (the level will vary with engine temperature).

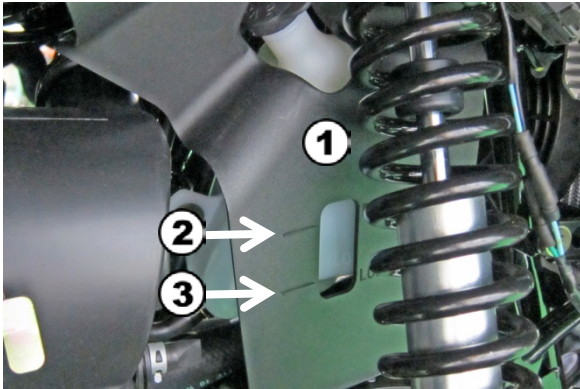
The coolant level is satisfactory if it is between the "FULL" ② and "LOW" ③ marks on the tank.

If the coolant level is below the "LOW" level, add distilled water to bring the level up to the "FULL" level.

Change the coolant in accordance with the Maintenance Schedule.

### ⚠ CAUTION

Hard water or salt water is harmful to your engine. Use distilled water or soft tap water to prevent damage to your engine or the cooling system.



### ⚠ WARNING

#### POTENTIAL HAZARD

Removing the radiator cap when the engine and radiator are still hot.

#### WHAT CAN HAPPEN

You could be burned by hot fluid and steam blown out under pressure.

#### HOW TO AVOID THE HAZARD

Wait for the engine to cool before removing the radiator cap. Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.

If your cooling system requires service or repair, see your KYMCO dealer.

### SPARK PLUG INSPECTION

If the plug is oily or has carbon built up it, have it cleaned, preferably in a sand-blasting device, and then clean off any abrasive particles. The plug may also be to other suitable tool.

If the insulator is cracked, replace the plug.

Use the standard plug.

## PRE-RIDE INSPECTION

### OPERATING THE ATV - STARTING A COLD ENGINE

#### **⚠ WARNING**

##### **POTENTIAL HAZARD**

Frozen control cables in cold weather.

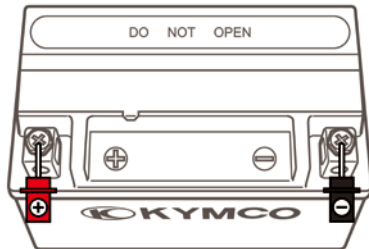
##### **WHAT CAN HAPPEN**

You may not be able to control the ATV, which could lead to an accident or a collision.

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

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

- **NOTE:** Check the battery voltage if the ambient air temperature is below 0° F (-18°C). If the voltage is below 12.5 VDC the engine may not electric-start.



## PRE-RIDE INSPECTION

### STARTING A COLD ENGINE

1. Set the parking brake and unlock the steering (take steering lock key out).
2. Turn the ignition switch to "ON".
3. Shift the drive model select lever into N (neutral) or P (park) position.
  - **NOTE:** The engine can be started in any gear if the brake lever is applied. However, it is recommended to shift the transmission into neutral or park before starting the engine.
  - **NOTE:** When the drive model select lever is in the neutral or park position the respective icon should illuminate on the multifunction display. If the indicator icons fail to illuminate, see your KYMCO dealer for diagnosis and repair of the fault.
4. Completely close the throttle lever and start the engine by pressing the starter button.
  - **NOTE:** If the engine fails to start, release the starter button, then press the starter button again. Keep each starting attempt as brief as possible to preserve battery energy. Do not crank the engine over for more than ten seconds during each starting attempt.
  - **NOTE:** If the battery becomes discharged from the starting attempt, recharge it completely and test that it is at full capacity before trying to start the ATV again.
  - **NOTE:** Check the spark plug condition if the ATV fails to start. A weak battery may be depleted faster in cold weather and cause weak ignition spark. This could cause gasoline to foul the spark plug at which point it would need to be replaced. Recharge the battery if you have to replace a gasoline-fouled spark plug.

### **WARNING**

To avoid damage to the ATV's electronic fuel injection system and wiring, do not remove or install a battery wire when the ignition switch is in the "ON" position.

## PRE-RIDE INSPECTION

- **NOTE:** If you have to effect repairs on the ATV to get it to start in cold weather, use care so moisture (including ice or snow) does not get into the engine, spark plug hole, right engine cover (belt case) or the battery compartment.

### CAUTION

Review the “engine break in” section of this manual before operating the engine for the first time.

The warm-up time for the engine will be longer in cold weather. Do not prematurely operate a cold engine. Allow time for a proper warm-up.

## STARTING A WARM ENGINE

- **NOTE:** Refer to the NOTES, CAUTIONS and WARNING listed in the “Starting a Cold Engine” section of this manual.

1. Set the parking brake.
2. Turn the ignition switch to “ON”.
3. Shift the drive model select lever into N (neutral) position.
4. Open the throttle lever slightly and start the engine by pressing the starter button.

### CAUTION

Review the “engine break in” section of this manual before operating the engine for the first time.

To achieve maximum engine life, always warm up the engine before riding. Never accelerate hard with a cold engine. Verify that the engine speed picks up smoothly when the throttle lever is pressed after approximately thirty seconds of warm-up time.



## PRE-RIDE INSPECTION

### EMERGENCY JUMP STARTING

If the battery is weak and will not start the ATV, you can elect to jump-start the engine with the battery from another vehicle.

#### CAUTION

**Both vehicles must have 12 volt, negative ground electrical systems. The battery in the other vehicle must be of a similar electrical capacity. Do not use an automotive battery, even if that vehicle's engine is not running, as the higher capacity of that battery can damage your ATV's electrical system.**

1. Remove the seats and locate the positive [+] and negative [-] terminals on each vehicle's battery.
2. Check that the jumper cables are not damaged or have any missing wire insulation. An electrical shock may result or the vehicles may be damaged from using damaged jumper cables. Before connecting the cables, be aware that the jumper cables will connect the positive [+] terminals of each battery, and the negative [-] terminals will also be connected through the cable. Take great care to avoid accidentally connecting a positive [+] cable end or terminal to a negative [-] cable end or terminal.
3. Carefully connect the red positive [+] jumper cable end to the positive [+] terminal of the vehicle with the weak battery.
4. Using great care to not let the jumper cable end touch any part of the vehicle with the good battery, connect the other positive [+] jumper cable end to the good battery's positive [+] terminal.
5. Now connect the black negative [-] jumper cable end to the good battery's negative [-] terminal. Do not let the other negative end of the jumper cable touch anything. The negative end of the jumper cable DOES NOT go to the weak battery; it connects to a unpainted metal part of the engine or chassis of the vehicle with the weak battery.
6. With the jumper cables in place, start the vehicle with the good battery and let the engine run for a few minutes.
7. Try to start the vehicle with the weak battery. If it will not start after a few attempts, the battery may require replacement or there is another problem with the vehicle.
8. Carefully remove the cables in reverse order to prevent any electrical shorts. Always take great care that the positive [+] jumper cable ends NEVER touch any metal part of the chassis.

## PRE-RIDE INSPECTION

### ENGINE BREAK-IN

The most critical time period in the life of your ATV is the first twenty hours of operation. Commonly referred to as the “break-in period”, how you use the ATV during this time period will affect reliability and longevity.

For these reasons, please review the following material carefully. Because the engine is brand new, you must not put an excessive load on it for the first twenty hours of use. During this period, various parts in the engine wear and polish themselves to the correct operating tolerances.

During the first twenty hours, prolonged full-throttle operation, or any condition which might result in excessive engine heating, must be avoided. However, momentary (two to three seconds maximum) full-throttle operation under load will not harm the engine.

Each full-throttle acceleration sequence should be followed with a substantial rest period for the engine by cruising at a lower engine speed (RPM) so the engine can shed any extra heat. If you notice any unusual performance, engine sounds or excessive residual heat, consult with your KYMCO dealer.

1. **0 ~ 10 hours of operation:**

Avoid continuous operation above half throttle. Allow for a cooling off period of five to ten minutes after each hour of operation. Vary the engine and trail speed of the ATV from time to time. Do not operate the engine at full throttle.

2. **10 ~ 20 hours of operation:**

Avoid prolonged operation above 3/4 throttle. You can rev the engine freely through the transmission gears, but do not use full throttle at any time.

3. **After break-in:**

Avoid full throttle operation. Vary the engine and trail speeds occasionally.

### CAUTION

Follow the recommended break-in procedures. Damage to the ATV or its engine from improper break-in procedures is not a defect; therefore related repair costs will not be covered by the KYMCO Limited Warranty.

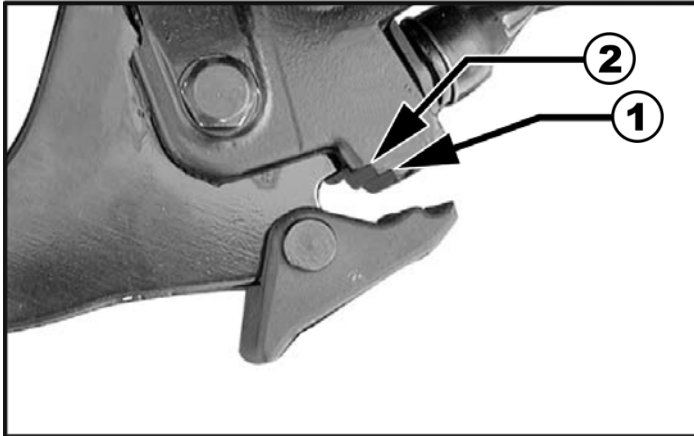
# PRE-RIDE INSPECTION

## PARKING

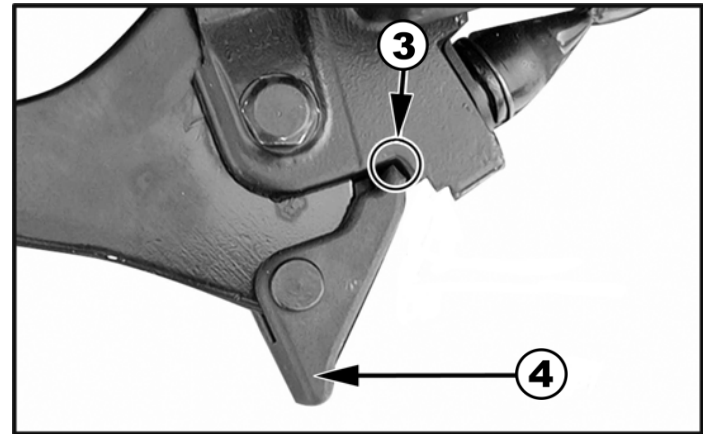
### Front Parking Brake

When parking, stop the engine and shift the transmission into "PARK". Apply the parking brake so the ATV will remain stationary.

The front brake lever has a lever lock and mount with three steps that permit it to be used as a graduated parking brake. By holding the right-hand brake lever, the parking brake applies hydraulic pressure to the front brake calipers.



The outer step ① and the middle step ② provide a lower level of parking brake force. The third step ③ provides the highest level of brake pressure. Once you have squeezed the brake lever to set the parking brake, set the lever lock ④ in place to hold the lever (and apply pressure to the brakes).



## PRE-RIDE INSPECTION

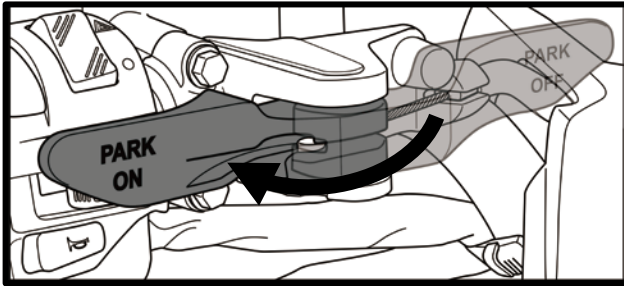
### Rear Parking Brake - 1

To set the rear parking brake, move the lever to position (A).

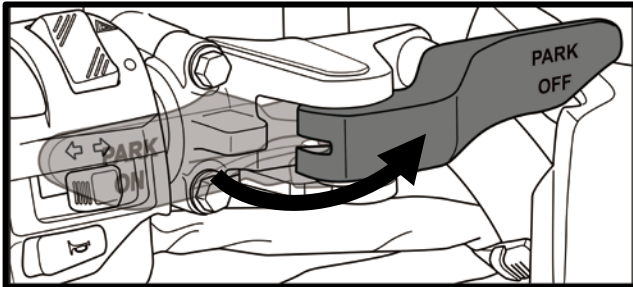
**Only set the parking brake when parking and before starting the engine.**

To unlock the rear parking brake, move the lever to position (B).

(A)



(B)



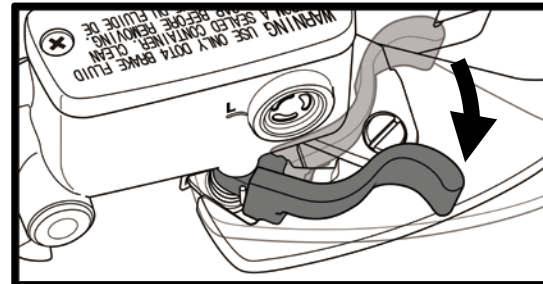
### Rear Parking Brake - 2

To set the rear parking brake, squeeze the brake lever and then move the lever to position (A).

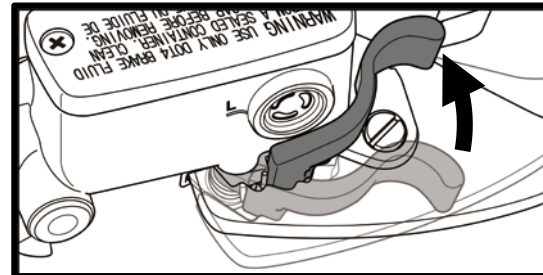
**Only set the parking brake when parking and before starting the engine.**

To unlock the rear parking brake, squeeze the brake lever and then move the lever to position (B).

(A)



(B)



## PRE-RIDE INSPECTION

### Parking on a slope

#### **WARNING**

##### **POTENTIAL HAZARD**

Parking on a slope or other incline.

##### **WHAT CAN HAPPEN**

The ATV could roll out of control, increasing the chance of an accident.

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

Avoid parking on slope or other inclines. If you must park on an incline, place the machine transversely across the incline, apply the parking brake, and block the front and rear wheels with rocks or other objects.

Do not park the ATV at all on slope that are so steep you could not walk up them easily.

1. Bring the machine to a stop by applying the brakes.
2. Stop the engine.
3. With the brake applied, shift the drive select lever into the park position
4. Apply the parking brake.



## PRE-RIDE INSPECTION

### LOADING

As delivered, your ATV can carry cargo or tow a trailer. To do these tasks safely, you must use common sense and good judgment. Keep the following recommendations and specifications in mind:

- Never exceed the specified weight limits. An overloaded ATV can be unstable.

#### Load capacity

Front cargo rack ①: 75 lbs (34.0 kg)  
Rear cargo rack ②: 150 lbs (68.0 kg)

#### Trailer

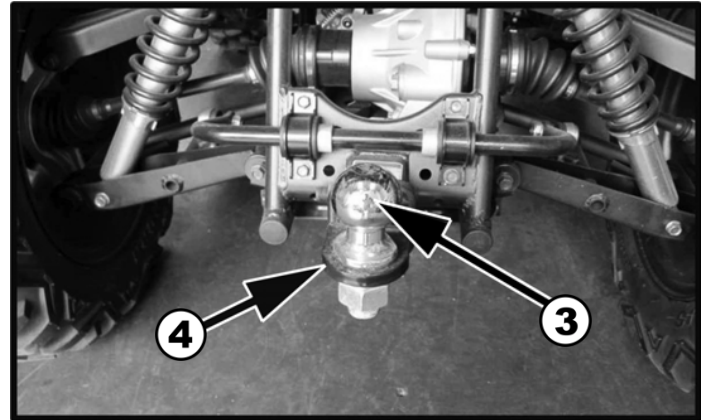
Maximum towing capacity: 290 lbs (131.5 kg)  
Maximum tongue weight: 35 lbs (16.0 kg)



Do not exceed the recommended tongue weight when towing a trailer.

When setting up your ATV to tow a trailer, you will need to obtain a trailer hitch ball ③ that matches your trailer and mates properly with the trailer hitch flange ④.

See your KYMCO dealer for support in obtaining the proper equipment and accessories.



## PRE-RIDE INSPECTION

- Load cargo on the cargo racks as close to the center of the vehicle as possible. Put cargo at the rear of the front rack and at the front of the rear rack. Place the load at the center of either rack.
- Tie down cargo securely to the cargo racks. Make sure the load cannot shift. Make sure the load in the trailer cannot move around.
- A shifting load on the ATV or on the trailer can cause an accident.
- Make sure the load does not interfere with the ATV's controls or your ability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry or tow, the slower you should go.
- Allow more braking distance. Do not follow close to other vehicles. A heavier vehicle requires more distance and time to stop.
- Avoid making sharp turns unless you are at a very slow speed.
- Avoid hills and rough terrain. Choose your riding path carefully. Added weight affects the stability and handling of your ATV.
- Never carry passengers on the cargo racks.

### WARNING

#### POTENTIAL HAZARD

Overloading the ATV or carrying or towing cargo improperly.

#### WHAT CAN HAPPEN

The cargo load can cause changes in the vehicle's handling which could lead to an accident.

#### HOW TO AVOID THE HAZARD

Never exceed the specified load capacity for the ATV.

Cargo should be properly distributed and securely attached to the cargo racks or in your trailer.

Reduce speed when carrying cargo or pulling a trailer. Allow greater distance for braking.

## PRE-RIDE INSPECTION

### ACCESSORIES

Accessories can affect the handling and your ability to control your ATV. Keep the following recommendations in mind when considering an accessory, or operating an ATV which has been fitted with accessories.

- Choose only accessories that have been specifically designed for your ATV. Your KYMCO dealer has a variety of genuine KYMCO accessories. While other accessories may be available, it is not possible for KYMCO to test and verify the safety and suitability of these non-KYMCO accessories. Always select a KYMCO accessory or one that is equivalent in design and quality.
- Accessories should be rigidly and securely mounted. An accessory that can shift position or come off your ATV while you are riding could affect your ability to control your ATV.
- Do not mount an accessory where it could interfere with your ability to control your ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, or a windscreen that could limit your view of the trail ahead.
- Use extra caution when riding an ATV fitted with accessories. The ATV will handle differently than it does with no accessories mounted to it.



## RIDING THE ATV SAFETY WARNINGS

The warnings on the following pages, and throughout this manual, should be read and understood completely before attempting to operate the ATV. Some information is directly related to riding the ATV, while other information is related to the mechanical care and operation of the ATV. You must be a conscientious vehicle owner so that your ATV provides you and others with safe and reliable service.

Rider training is also vital to your safety. Even experienced ATV riders will benefit from formal rider training. To obtain information about rider safety, operational training and courses available in your area, visit [www.atvsafety.org](http://www.atvsafety.org).

### ⚠ WARNING

#### POTENTIAL HAZARD

Operating the ATV without rider training and without becoming familiar with its operation.

#### WHAT CAN HAPPEN

Operating an ATV requires different skills and knowledge than compared to other motor vehicles. Without proper training or understanding, your inexperience could cause an accident, resulting in injury or death.

The risk of an accident is also increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

#### HOW TO AVOID THIS HAZARD

Complete a certified ATV rider safety course. After training, increase your skills and familiarity with your ATV by operating it at slow speeds first. Riding your ATV requires skills acquired through practice over a period of time. Do not attempt to operate your ATV at maximum performance until you are totally familiar with its handling and performance characteristics.



### ⚠ WARNING

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

## WARNINGS – BEFORE YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Operating this ATV without proper instruction.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THIS HAZARD

Whether you are a beginning or an experienced ATV rider, you should complete a certified training course. 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

Allowing anyone under 16 years of age to operate this ATV.

#### WHAT CAN HAPPEN

Use of an ATV by children can lead to severe injury or death of the child. Children under 16 years of age may lack the skills, abilities, or judgment necessary to operate the ATV 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 ATV.



## WARNINGS – BEFORE YOU RIDE

### ⚠️ WARNING

#### POTENTIAL HAZARD

Operating your ATV without wearing an approved helmet, eye protection and protective clothing.

#### WHAT CAN HAPPEN

Operating an ATV without an approved helmet increases your chances of a severe head injury or death in the event of an accident.

Operating an ATV 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.

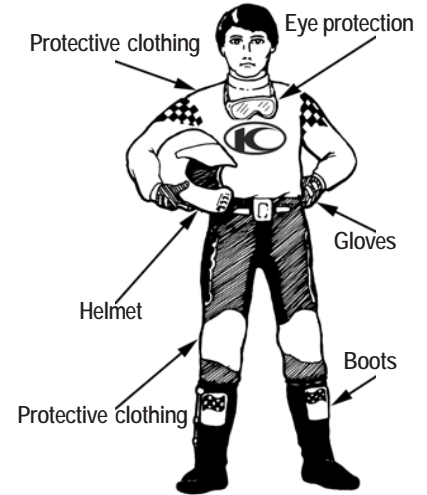
Operating an ATV without protective clothing increases your chances of severe injury in the event of an accident.

#### HOW TO AVOID THIS HAZARD

Always wear an approved helmet that fits properly.

You should also wear:

- \* Eye protection (goggles or helmet face shield)
- \* Gloves
- \* Boots
- \* Long-sleeved shirt, riding jersey or long-sleeved jacket
- \* Long-legged pants or riding pants



### ⚠️ WARNING

#### POTENTIAL HAZARD

Operating your ATV after or while consuming alcohol or drugs.

#### WHAT CAN HAPPEN

Consuming alcohol or drugs can seriously affect your judgment. Consuming alcohol or drugs will cause you to react more slowly and will affect your balance and perception. Operating your ATV with these impairments may result in an accident.

#### HOW TO AVOID THIS HAZARD

Never consume alcohol or drugs before, or while driving your ATV.



### ⚠️ WARNING

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

## WARNINGS – BEFORE YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Starting or running the engine in a closed area.

#### WHAT CAN HAPPEN

Exhaust fumes are poisonous and may cause loss of consciousness or death in a short time.

#### HOW TO AVOID THIS HAZARD

Always operate your vehicle in an area with adequate ventilation.



### WARNING

#### POTENTIAL HAZARD

Improper handling of gasoline (while, but not limited to, refueling).

#### WHAT CAN HAPPEN

Gasoline can catch fire and you can be burned.

#### HOW TO AVOID THIS HAZARD

Always turn off the engine when refueling your ATV. Do not refuel immediately after operating the ATV as the engine could still be very hot. Do not spill gasoline on the exhaust pipe or muffler when refueling. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition (such as the pilot lights of stoves, clothes dryers or hot water heaters).

### WARNING

#### POTENTIAL HAZARD

Improper handling of gasoline.

#### WHAT CAN HAPPEN

Gasoline is a poisonous chemical and can cause injuries.

#### HOW TO AVOID THIS HAZARD

If you should swallow gasoline, inhale a lot of gasoline vapor, or get some gasoline in your eyes, seek medical attention immediately. If gasoline spills on your skin, wash the affected area with soap and water. If gasoline spills on your clothing, change your clothes and wash the affected area of your body.

## WARNINGS – BEFORE YOU RIDE

### WARNING

#### **POTENTIAL HAZARD**

Failure to inspect your ATV before operating it. Failure to properly maintain your ATV.

#### **WHAT CAN HAPPEN**

By not keeping your ATV in proper working order, you increase the possibility of an accident or equipment damage.

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

Always inspect your ATV 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. Perform a thorough pre-ride inspection before each ride.

### WARNING

#### **POTENTIAL HAZARD**

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

#### **WHAT CAN HAPPEN**

The use of improper tires on your ATV, or riding your ATV with improper or uneven tire inflation, could cause you to lose control of the ATV, increasing the chance of an accident.

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

Always use the proper tire sizes and types as specified in this Owner's Manual. Always maintain proper tire pressure in your ATV's tires, as described in this Owner's Manual.

### WARNING

#### **POTENTIAL HAZARD**

Operating your ATV with improper modifications.

#### **WHAT CAN HAPPEN**

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

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

Never modify your ATV or install accessories that are not specifically designed for your ATV. All parts and accessories added to this ATV should be genuine KYMCO ATV components designed for use on your ATV and should be installed and used according to the installation instructions. Never install a twist-grip type throttle. If you have questions about personalizing your ATV, consult an authorized KYMCO ATV dealer.



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

## WARNINGS – BEFORE YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Operating your ATV with improper accessories installed.

#### WHAT CAN HAPPEN

The use of improper accessories may affect the operation of the ATV and could cause you to lose control of the ATV, increasing the chance of an accident.

#### HOW TO AVOID THIS HAZARD

Do not install or use non-KYMCO accessories on your ATV. See the Accessories section of this Owner's Manual for further information or contact your KYMCO dealer for assistance

### WARNING

#### POTENTIAL HAZARD

Overloading your ATV or carrying loads or towing cargo improperly.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THIS HAZARD

Never exceed the stated load capacity for your ATV. Cargo should be properly distributed and securely attached. To aid in controlling your ATV, reduce speed when carrying cargo or pulling a trailer, and allow greater distances for braking.

## WARNINGS – AS YOU RIDE

### ⚠ WARNING

#### POTENTIAL HAZARD

Operating your ATV at excessive speeds.

#### WHAT CAN HAPPEN

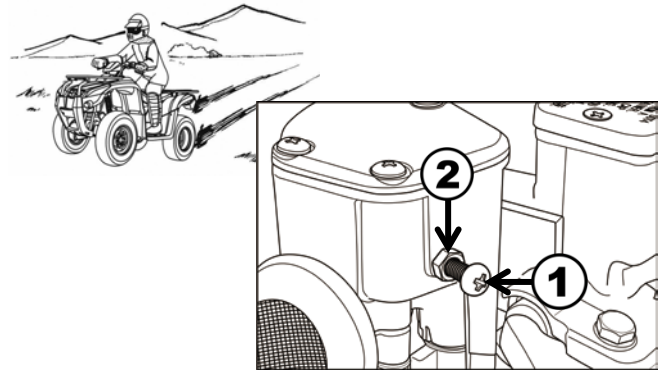
Operating your ATV at excessive speeds increases your chances of losing control of the vehicle, which can result in an accident.

#### HOW TO AVOID THIS HAZARD

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

#### NOTE:

Your ATV is equipped with a speed limiter which can reduce the engine and vehicle speed by limiting the throttle lever opening (by adjusting the adjuster screw ① and securing it with a lock nut ② on the throttle lever housing). Setting the speed limiter feature of the ATV.



### ⚠ WARNING

#### POTENTIAL HAZARD

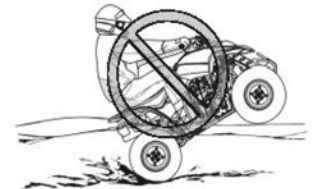
Attempting wheelies, jumps, and other stunts when riding your ATV.

#### WHAT CAN HAPPEN

Attempting wheelies, jumps, and other stunts increases the chance of an accident, including a rollover, when riding your ATV.

#### HOW TO AVOID THIS HAZARD

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



### ⚠ WARNING

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

## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Carrying a passenger on this ATV.

#### WHAT CAN HAPPEN

Carrying a passenger greatly reduces your ability to balance and control this ATV. This could cause an accident, resulting in injury or death to you and/or your passenger.

#### HOW TO AVOID THIS HAZARD

Never carry a passenger. The long seat on this ATV is designed to allow you to shift positions as needed during operation. It is not for carrying passengers.



### WARNING

#### POTENTIAL HAZARD

Carrying a passenger on the cargo racks.

#### WHAT CAN HAPPEN

Carrying a passenger on the cargo racks greatly reduces your ability to balance and control this ATV. This could cause an accident, resulting in injury or death to you and/or your passenger.

#### HOW TO AVOID THIS HAZARD

Never carry a passenger on the cargo racks. The cargo racks are supplied with the ATV to permit you to carry cargo. The cargo racks are not for carrying passengers.





## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

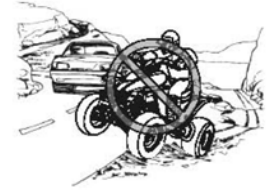
Operating your ATV on public streets, roads, or highways.

#### WHAT CAN HAPPEN

You can collide with another vehicle.

#### HOW TO AVOID THIS HAZARD

Never operate your ATV on any public street, road, or highway, even a dirt or gravel road. In many states it is illegal to operate an ATV on public streets, roads, or highways.



### WARNING

#### POTENTIAL HAZARD

Operating your ATV on paved surfaces.

#### WHAT CAN HAPPEN

Your ATV'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 ATV.

#### HOW TO AVOID THIS HAZARD

Never operate your ATV on any paved surfaces, including sidewalks, driveways, parking lots, and/or streets.



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

## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Operating your ATV in areas where you might not be seen by other off-road vehicles.

#### WHAT CAN HAPPEN

You could be in a collision. You could be injured or killed.

#### HOW TO AVOID THIS HAZARD

Always mount a caution flag on your ATV to make you more visible. Watch carefully for other vehicles. To obtain or mount a caution flag, contact your KYMCO dealer.



### WARNING

#### POTENTIAL HAZARD

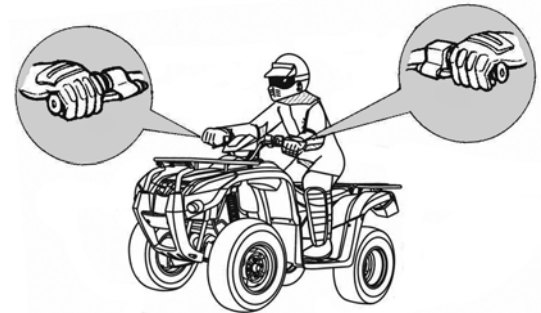
Removing your hands from handlebars or your feet from your ATV's footrests while riding.

#### WHAT CAN HAPPEN

Removing even one hand or foot can reduce your ability to control your ATV or could cause you to lose your balance and fall off the ATV. If you remove a foot from a foot-rest, your foot or leg may come into contact with the wheels, which could injure you or cause an accident.

#### HOW TO AVOID THIS HAZARD

Always keep both hands on the handlebars and both feet on the footrests of your ATV while riding.



## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Failure to use extra care when riding your ATV on unfamiliar terrain.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THIS HAZARD

Go slowly and be extra careful when riding your ATV on unfamiliar terrain. Always be alert to changing conditions in the terrain when riding your ATV.



### WARNING

#### POTENTIAL HAZARD

Failure to use extra care when riding your ATV on rough, slippery, or loose terrain.

#### WHAT CAN HAPPEN

Riding your ATV 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 ride your ATV on rough, slippery, or loose terrain until you have learned and practiced the skills necessary to control the ATV on these surfaces. Always be especially cautious when riding over rough, slippery, or loose terrain.



### WARNING

#### POTENTIAL HAZARD

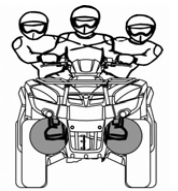
Turning the ATV improperly.

#### WHAT CAN HAPPEN

Your ATV might go out of control, causing a collision or rollover.

#### HOW TO AVOID THIS HAZARD

Always follow proper procedures for turning your ATV as described in this Owner's Manual. Practice turning at slow speeds before attempting to turn at faster speeds. Do not turn your ATV at excessive speeds.



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

## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Operating your ATV on steep hills..

#### WHAT CAN HAPPEN

Your ATV can overturn more easily on steep hills than on level surfaces or small hills.

#### HOW TO AVOID THE HAZARD

Never operate your ATV on hills that are too steep for the ATV or for your abilities. Practice riding on smaller hills before attempting to ride on larger hills.



### WARNING

#### POTENTIAL HAZARD

Climbing hills improperly with your ATV.

#### WHAT CAN HAPPEN

Climbing hills improperly could cause you to lose control of your ATV or cause the ATV 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. Shift your weight forward when riding your ATV up a hill. Never open the throttle suddenly or make sudden gear changes, as the ATV could 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 could be on the other side of the hill.

NEVER RIDE YOUR ATV UP OR DOWN HILLS STEEPER THAN 25°



## WARNINGS – AS YOU RIDE

### ⚠ WARNING

#### POTENTIAL HAZARD

Going down a hill improperly on your ATV.

#### WHAT CAN HAPPEN

Going down a hill improperly could cause you to lose control of your ATV or cause the ATV 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 ATV. Shift your weight backwards.

Never go downhill at a high speed.

Avoid going down a hill at an angle that would cause your ATV to lean sharply to one side. Go straight down the hill whenever possible.



### ⚠ WARNING

#### POTENTIAL HAZARD

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

#### WHAT CAN HAPPEN

Improperly crossing hills or turning on hills could cause you to lose control of your ATV or cause the ATV to overturn.

#### HOW TO AVOID THIS HAZARD

Never attempt to turn your ATV around on any hill until you have mastered the turning technique as described in this Owner's Manual.

Practice these maneuvers first on level ground.

Be very careful when turning your ATV on any hill.

Avoid crossing the side of a steep hill if possible.

#### When crossing the side of a hill on an ATV:

- \* Always follow proper procedures as described in this Owner's Manual.
- \* Avoid hills with slippery or loose surfaces.
- \* Shift your weight to the uphill side of the ATV.



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

## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Stalling, rolling backwards, or improper dismounting while climbing a hill on your ATV.

#### WHAT CAN HAPPEN

Stalling, rolling backwards, or improper dismounting could result in the ATV overturning.

#### HOW TO AVOID THIS HAZARD

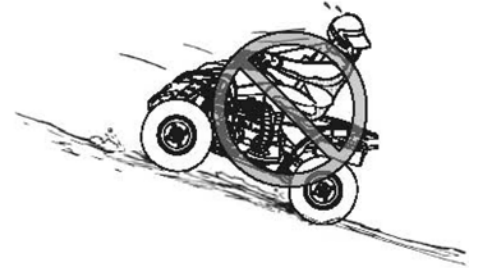
Select the proper transmission gear and maintain a steady speed when climbing

#### If you lose all forward speed:

- \* Keep your weight uphill
- \* Apply the brakes
- \* Engage the brake lever lock (parking brake) after you are stopped

#### If you begin rolling backwards:

- \* Keep your weight uphill
- \* Apply the brakes while rolling backwards
- \* When the ATV comes to a full stop, engage the brake lever lock (parking brake) and dismount the ATV on the uphill side, or to the side pointed uphill
- \* Turn the ATV around so it faces downhill and remount following the procedure described in this Owner's Manual



### WARNING

#### POTENTIAL HAZARD

Improperly riding your ATV over obstacles.

#### WHAT CAN HAPPEN

Improperly riding over obstacles could cause you to lose control of your ATV or cause a collision. A loss of control or a collision could cause the ATV to overturn.

#### HOW TO AVOID THIS HAZARD

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

## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Operating your ATV through deep or fast flowing water.

#### WHAT CAN HAPPEN

Your ATV'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 ATV's braking system.

#### HOW TO AVOID THIS HAZARD

Never operate your ATV in fast flowing water, or in water deeper than the footrests. Remember that wet brakes may have reduced stopping capability. Test your ATV's brakes after leaving water (see warning box below).

- **NOTE:** Your ATV can be used to cross slow moving water up to a maximum depth of 7.9 inches (20 cm). Before entering the water, choose your route carefully so you can avoid sharp objects, rocks or slippery conditions that could cause you to lose control of the ATV.



### WARNING

#### POTENTIAL HAZARD

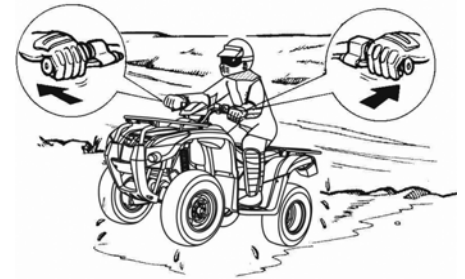
Loss of braking after water crossing.

#### WHAT CAN HAPPEN

Water can affect the ATV's braking system, causing poor stopping performance.

#### HOW TO AVOID THIS HAZARD

Test your ATV's brakes after leaving water. If necessary, apply the brakes smoothly several times to dry the pads, drums and rotors. Drive slowly and carefully until you are sure the braking performance has returned to normal.



### WARNING

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

## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Skidding or sliding when riding your ATV.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THIS HAZARD

Learn to safely control skidding or sliding by practicing on your ATV 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 ATV out of control.



### WARNING

#### POTENTIAL HAZARD

Improperly operating your ATV in reverse.

#### WHAT CAN HAPPEN

You could hit an obstacle or person behind you with the ATV, 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 the ATV in reverse at slow speeds.



## WARNINGS – AS YOU RIDE

### WARNING

#### POTENTIAL HAZARD

Improperly parking your ATV (especially parking on a hill or other incline).

#### WHAT CAN HAPPEN

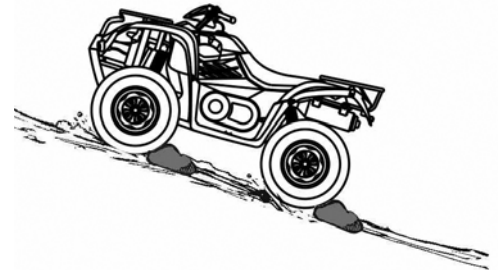
The ATV could move where it could injure a person or cause physical damage to itself or other property.

#### HOW TO AVOID THIS HAZARD

Avoid parking on hills. Always choose a level place to park. After bringing your ATV to a stop, hold the brakes while you shift into neutral, then set the parking brake and turn the ignition switch OFF.

#### NOTE:

Your ATV is equipped with a parking brake that will lock the front brakes of your ATV to hold it in place. Refer setting the parking brake. For additional security parking on steep terrain, use rocks or other objects to act as stops behind the ATV's wheels (on the downhill side of the wheel).



### WARNING

#### POTENTIAL HAZARD

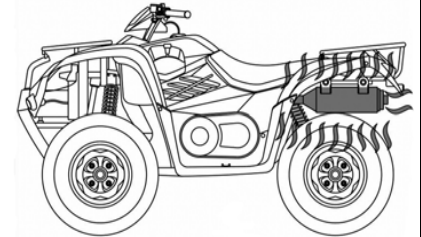
The exhaust system can be very hot.

#### WHAT CAN HAPPEN

Someone touching the exhaust system during or after operation could be burned.

#### HOW TO AVOID THIS HAZARD

Do not touch the exhaust system when it is hot. Do not park the ATV in a place where others might touch the exhaust system. Take extra care when parking an ATV with a hot exhaust system so children, animals or combustible materials will not touch the exhaust system.



### WARNING

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

## RIDING THE ATV

### MOUNTING THE ATV

Use care when mounting your ATV. While your ATV is a four-wheel vehicle, you still must use care to not upset the chassis when mounting it. To get seated:

1. From the left side of the ATV, grab the left-side handlebar, apply the brake, and put your left foot on the footrest
2. Grab the right-side handlebar
3. Swing your leg over the seat and set your right foot down on the right-side footrest
4. Get seated in a comfortable position
5. Always keep your feet planted on the footrests

### STARTING THE ENGINE

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

1. Climb up onto the ATV and sit down.
2. Engage the parking brake
3. Shift into neutral
4. Turn on the ignition switch
5. Move the emergency stop switch to RUN
6. Press the starter button
7. Let the engine warm up

### RIDING

Carefully read this manual and pay particular attention to the safety warnings contained within. Review the riding tips and warnings before attempting to operate the ATV.

#### **WARNING**

Before operating your ATV you should enroll and complete an ATV safety course. Your KYMCO dealer will have course information

### PARKING

When parking your ATV, use the following guidelines:

1. After the ATV is stopped, shift into neutral
2. Stop the engine using the engine stop switch
3. Turn off the ignition switch
4. Always try to park your ATV on level ground. If you have to park on a hill, shift the ATV's transmission into low gear.
5. Engage the parking brake

### DISMOUNTING YOUR ATV

To park and dismount from your ATV:

1. Double-check that the parking brake is engaged
2. Swing your right leg over to the left side of the seat
3. Step to the ground on the left side of the ATV

# RIDING THE ATV

## RIDERS OTHER THAN YOURSELF

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

## INEXPERIENCED/UNTRAINED RIDERS

Never let anyone who has not been educated in proper and safe ATV operation to ride your ATV. Even guests who own an ATV or who have prior riding experience may not have the foundation of a formal training course that would have educated them about safe ATV operation. As the vehicle owner, it is your responsibility to keep uneducated guests (especially under-aged children) off of your ATV.

## ATV RIDER AGE GUIDELINES

Regardless of experience, you should never let anyone under 16 years of age operate your ATV. KYMCO and the ATV Safety Institute recommend that all ATV operators ride the appropriately sized ATV for their age.

<i>Age(Years)</i>	<i>Engine Size(cc)</i>	<i>Speed Limitations(MPH)</i>
6 to 11	Up to 70	10 – Governed/15 – Maximum
12 to 15	Up to 90	15 – Governed/30 – Maximum
16 & Older	Over 90	According to Local Regulations

## EXPERIENCED/TRAINED RIDERS

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

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

## PERIODIC MAINTENANCE

Proper periodic maintenance and adjustment of your ATV 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 **ATV**, **DO NOT OPERATE THE ATV**. Take your ATV to an authorized KYMCO ATV dealer for inspection and adjustment or repair.

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

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

Discuss with your KYMCO dealer how you intend to operate your ATV. This consultation will provide you useful advice on service frequency and methods to enhance the operational life of your ATV.

### **WARNING**

#### **POTENTIAL HAZARD**

Servicing an engine while it is running.

#### **WHAT CAN HAPPEN**

Moving parts can catch clothing or parts of the body, causing injury.

Electrical components can cause shocks or can start fires.

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

Turn off the engine when performing maintenance unless otherwise specified.

Have KYMCO dealer perform service if you are not familiar with machine service.

# PERIODIC MAINTENANCE

## PERIODIC MAINTENANCE CHART

### MAINTENANCE SCHEDULE CHART (1/3)

ITEM	ROUTINE	WHICHEVER COMES FIRST			
		mi	INSTAL	EVERY	
		Km	100	600	1200
		MONTH	150	1000	2000
Engine oil	<ul style="list-style-type: none"> <li>■ Replace (Warm engine before draining).</li> </ul>		1	6	12
*Oil trainer	<ul style="list-style-type: none"> <li>■ Clean</li> <li>■ Replace if necessary.</li> </ul>		○	○	○
Engine oil filter cartridge	<ul style="list-style-type: none"> <li>■ Replace.</li> </ul>		○	○	○
Final gear oil	<ul style="list-style-type: none"> <li>■ Check oil level/oil leakage.</li> <li>■ Replace every 12 months.</li> </ul>		○		○
Differential gear oil	<ul style="list-style-type: none"> <li>■ Check oil level/oil leakage.</li> <li>■ Replace every 12 months.</li> </ul>		○		○
Air filter element(for engine and*V-belt compartment)	<ul style="list-style-type: none"> <li>■ Clean (More often in wet or dusty areas).</li> <li>■ Replace of necessary.</li> </ul>			○	○
*Throttle body	<ul style="list-style-type: none"> <li>■ Check idle speed/starter operation.</li> <li>■ Adjust if necessary.</li> </ul>				○
*Cylinder head cover breather system	<ul style="list-style-type: none"> <li>■ Check breather hose for cracks or damage.</li> <li>■ Replace if necessary.</li> </ul>			○	○
Spark plug	<ul style="list-style-type: none"> <li>■ Check condition.</li> <li>■ Adjust gap and clean.</li> <li>■ Replace if necessary.</li> </ul>		○	○	○
*Fuel line	<ul style="list-style-type: none"> <li>■ Check fuel hose for cracks or damage.</li> <li>■ Replace if necessary.</li> </ul>			○	○

# PERIODIC MAINTENANCE

## MAINTENANCE SCHEDULE CHART (2/3)

ITEM	ROUTINE	WHICHEVER COMES FIRST			
		mi	100	600	1200
		Km	150	1000	2000
		MONTH	1	6	12
*Valves	<ul style="list-style-type: none"> <li>■ Check valve clearance.</li> <li>■ Adjust if necessary.</li> </ul>		○	○	○
*Brake	<ul style="list-style-type: none"> <li>■ Check operation and brake fluid.</li> <li>■ Replace brake pad if necessary.</li> </ul>		○	○	○
*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>		○	○	○
*V-belt	<ul style="list-style-type: none"> <li>■ Check operation.</li> <li>■ Replace of damage or excessive wear.</li> </ul>		○		○
*Exhaust system	<ul style="list-style-type: none"> <li>■ Check leakage.</li> <li>■ Retighten if necessary.</li> <li>■ Replace gasket if necessary.</li> </ul>			○	○
Spark arrester	<ul style="list-style-type: none"> <li>■ Clean.</li> </ul>			○	○
*Wheels	<ul style="list-style-type: none"> <li>■ Check balance/damage/run out.</li> <li>■ Replace if necessary.</li> </ul>		○	○	○
*Wheels bearings	<ul style="list-style-type: none"> <li>■ Check bearing assembly for looseness/damage.</li> <li>■ Replace if damaged.</li> </ul>		○	○	○
*Steering system	<ul style="list-style-type: none"> <li>■ Check operation.</li> <li>■ Replace if damaged.</li> <li>■ Check tor-in.</li> <li>■ Adjust if necessary.</li> </ul>		○	○	○
*Drive shaft boots	<ul style="list-style-type: none"> <li>■ Check operation.</li> <li>■ Replace if necessary.</li> </ul>			○	○

# PERIODIC MAINTENANCE

## MAINTENANCE SCHEDULE CHART (3/3)

ITEM	WHICHEVER COMES FIRST	ROUTINE			
			INSTAL	EVERY	
		mi	100	600	1200
		Km	150	1000	2000
		MONTH	1	6	12
*Suspension	<ul style="list-style-type: none"> <li>■ Check operation.</li> <li>■ Correct if necessary.</li> </ul>			○	○
*Knuckle shafts/ Steering shaft	<ul style="list-style-type: none"> <li>■ Lubricate every 6 months.</li> </ul>			○	○
*Fittings and Fasteners	<ul style="list-style-type: none"> <li>■ Check all chassis fittings and fasteners.</li> <li>■ Correct if necessary.</li> </ul>		○	○	○

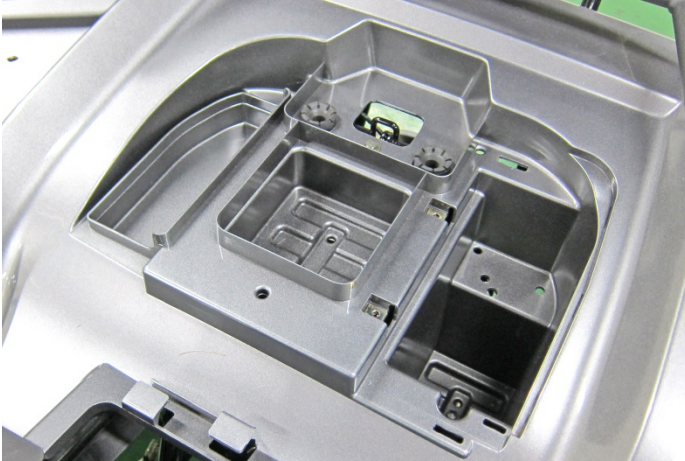
\* : It is recommended that these items be serviced by a KYMCO dealer.

\*\* : Lithium soap base grease.

## PERIODIC MAINTENANCE

### TOOL KIT / TOOL KIT COMPARTMENT

The tool kit is stored in the tool kit compartment under the seat.



The tools in the kits are sufficient to perform routine maintenance and simple repairs. Any extensive work requiring additional tools should be performed by your authorized KYMCO dealer.



The tool kit includes the following items:

1. Tool pouch
2. Wrench - 10/12mm
3. Low pressure tire gauge
4. Spark plug socket
5. Standard/Phillips screwdriver bit
6. Screwdriver handle
7. Rear shock absorber preload adjustment spanner



## PERIODIC MAINTENANCE

### WARNING

#### **POTENTIAL HAZARD**

Operating the ATV with improper modifications.

#### **WHAT CAN HAPPEN**

Improper installation of accessories or modification of the vehicle may cause changes in handling which, in certain situations, could lead to an accident.

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

Never modify the ATV with improper installation or use of non-KYMCO accessories. You should never service the ATV using procedures or parts that are not KYMCO approved.

All parts and accessories added to the vehicle should be genuine KYMCO or equivalent components designed for use on this ATV. All service should be performed by a capable person, such as a qualified technician. All parts installed should be done so with strict adherence to the item's instructions.

If you have any questions, consult an authorized KYMCO dealer.

# PERIODIC MAINTENANCE

## RADIATOR



Periodically check the radiator area for cleanliness. Inspect radiating fins. They must be clean, free of mud, dirt, leaves and any other deposit that would prevent the radiator to cool properly. Remove as much as you can with your hands. If water is available in proximity, try rinsing the radiating fins. If available, use a garden hose to rinse the radiating fins.

### ⚠ CAUTION

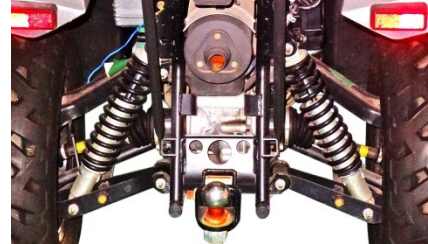
Never clean radiator with your hands when it is hot. Let the radiator cool down before cleaning.

## SHOCK ABSORBERS

Each shock absorber on your ATV 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 the conditions is detected, replacement is necessary.

- **NOTE:** If you ride your ATV 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 absorber is not necessary.

The shock absorbers have spring force adjustment sleeves with five positions to allow the spring rate to be adjusted for different riding and loading conditions. If the spring rate is too soft or too stiff, adjust the sleeve according to the chart below.



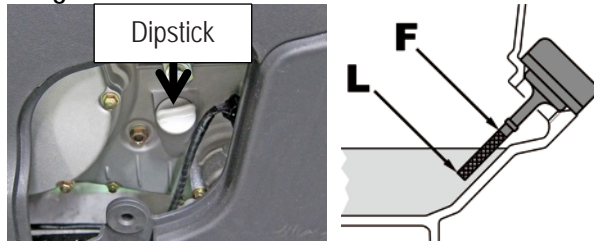
- **NOTE:** Use a spanner wrench to adjust the spring force adjustment sleeve to the desired position.

Position	Spring Force	Setting	Load
1	↓     Stronger	Soft	Light
2		↕	↕
3			
4			
5		Stiff	Heavy

# PERIODIC MAINTENANCE

## ENGINE OIL

### 1. Engine oil level measurement



- E. Park the ATV on a level ground
- F. Unscrew the dipstick, remove it and wipe it with a clean cloth
- G. Reinstall the dipstick, thread it into the engine case.
- H. Unscrew the dipstick and visually note the oil level. The oil level should be between the maximum level (F) and the minimum level (L). If the level is too low, add oil to raise the oil amount to the proper level.

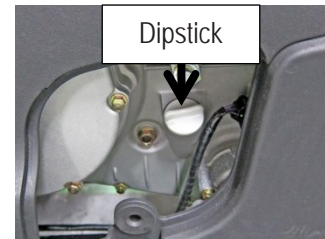
### **⚠ CAUTION**

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

### 2. Engine oil replacement

Change your ATV's engine oil and oil filter at the scheduled intervals. The engine should always be warm when the oil is changed so the oil will drain easily and completely.

- A. Park the ATV on a level ground
- B. Place a suitable container under the engine
- C. Remove the oil dipstick. Be careful not to allow dirt to enter the dipstick hole.



- D. Remove the drain plug from the bottom of the engine and drain the oil into a drain pan.
- E. Remove the oil filter plug from the filter mounting boss (located on the front-right side of the transmission case) and allow the oil to drain from the filter completely.

## PERIODIC MAINTENANCE

F. Using an oil filter wrench and a ratchet handle (or a socket or box-end wrench), remove the old oil filter and dispose of it properly. Do not reuse oil filter.

■ **NOTE: Clean up any excess or spilled oil after removing the oil filter.**

G. Apply some oil to the new filter's O-ring gasket and check to make sure it is positioned correctly, and then install the new oil filter. Tighten it securely.

H. Install the oil filter drain plug and tighten it securely.

I. Install the engine oil drain plug and tighten it securely. Pour the recommended oil in the filter hole. Install the filler plug.

J. Start the engine while the ATV is outside on the level ground) and allow it to idle for a few minutes.

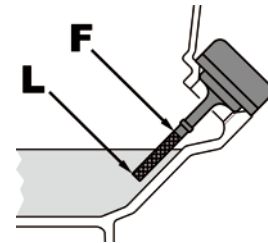
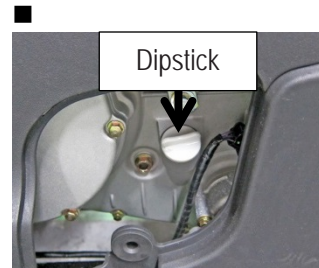
K. Inspect the area around the drain plug and oil filter for leaks.

### ▲ CAUTION

If oil leakage is found, stop the engine immediately and check for the cause.

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

L. Check the oil level. The oil level should be between the maximum level (F) and the minimum level (L). If the level is too low, add oil to raise the oil to the proper level.



■ **Engine oil quantity**

Periodic oil change:

2.33 qt (2.2 L)

Oil and filter cartridge change:

2.54 qt (2.4 L)

Total capacity:

3.01 qt (2.85 L)

■ **Engine oil type**

Viscosity:

SAE 5W-30

Type:

API SJ type

### ▲ CAUTION

Be sure no foreign material enters the crankcase.

## PERIODIC MAINTENANCE

### FRONT DIFFERENTIAL AND REAR DRIVE GEAR LUBRICANT

Inspect and change the gear lubricants in your ATV according to the Maintenance Schedule. When changing the lubricant, only use the approved fluid and use the following procedure:



- A. Park your ATV on a level ground
- B. Remove each fluid filter plug
- C. Drain the fluid into a drain pan by removing the drain plug from the Front Differential ①



- D. 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 fillings or water. If found, take your ATV to an authorized KYMCO ATV dealer for servicing.

- E. After all the fluid has been drained, reinstall the drain plugs and tighten them securely.
- F. Pour recommended oil into each filler hole.

#### ■ Tightening torque

Gear box oil drain bolt: 15 lb-ft (20 N-m, 2.0 kgf-m)

#### ■ Gear box oil quantity & type

Periodic oil change of front side: 0.264 qt (0.25L)

Periodic oil change of front side: 0.243 qt (0.23L)

Viscosity: SAE 90

Type: Hypoid GL-5

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

- G. Reinstall the fluid filter plugs and level plugs.

## PERIODIC MAINTENANCE

### SPARK PLUG

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

A light brown insulator indicates that the sparkplug is correct.

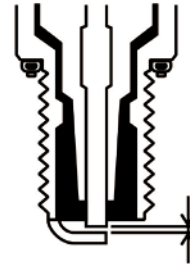
A very white center electrode porcelain color could indicate an intake air leak or a fuel injection problem. Do not attempt to diagnose such problems yourself. Instead, take your ATV to your KYMCO dealer.

Before inspecting a spark plug, clean the area around the spark plug to prevent dirt from entering the engine when removing or installing the spark plug.

#### ■ Spark plug specifications

Brand: NGK  
Size: CR7E  
Electrode gap: 0.028 - 0.031 in (0.7 - 0.8 mm)

■ **NOTE:** Before installing the spark plug, measure the electrode gap and adjust it to the proper specification.



Adjust the spark plug's ground electrode gap to 0.028 - 0.032 in. (0.7 - 0.8mm). Use a wire-type feeler gauge to check the gap.

When installing the spark plug, always clean the spark plug's gasket surface on the cylinder head and make sure the sealing washer is fitted to the spark plug. Wipe any grime from the threads before installation.

Hand threads the spark plug initially into the cylinder head so you can be sure the threads are engaging properly. Then tighten with a spark plug socket to the specified torque.

#### ■ Tightening torque

Fastener	Torque		
	ft-lb	n-m	kgf-m
Spark plug	7.2-10.1	9.8-13.7	1.0~1.4

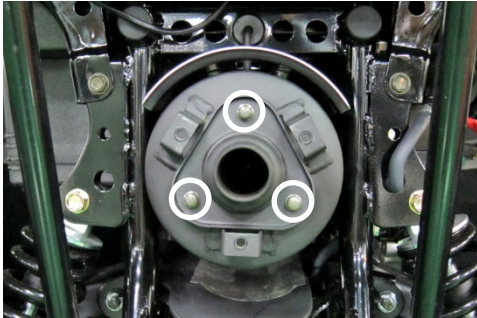
## PERIODIC MAINTENANCE

### SPARK ARRESTER

The spark arrester fitted to the muffler prevents carbon and other hot debris from exiting the exhaust muffler. Periodic cleaning is necessary to ensure proper exhaust flow.

#### **⚠ WARNING**

Before service, wait for the muffler to cool to avoid burns.



#### Spark arrester cleaning

- A. Remove the three bolts that hold the spark arrester to the muffler body, and then remove the spark arrester.
- B. Using a suitable brush, clean the carbon deposits from the screen, taking care to not damage the screen.

- **NOTE:** If the spark arrester screen or gasket is damaged in any way, they must be replaced.

- C. Use a sturdy brush to remove carbon deposits from the spark arrester screen.
- D. Install the gasket, then reinsert the spark arrester back into the muffler and tighten the three bolts securely.

#### **⚠ WARNING**

##### POTENTIAL HAZARD

Improper clean the spark arrester.  
Hot exhaust system.

##### WHAT CAN HAPPEN

You could injure your eyes. You could get burned. Carbon monoxide poisoning could lead to death. The exhaust system could start a fire.

##### HOW TO AVOID THE HAZARD

When cleaning the spark arrester:

- Always allow the exhaust system to cool prior to touching any exhaust system components.
- Do not start the engine when the spark arrester is off for service.
- If you have any questions, consult an authorized KYMCO dealer.



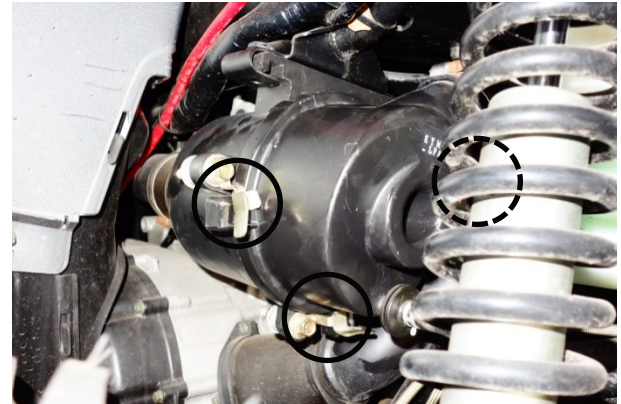
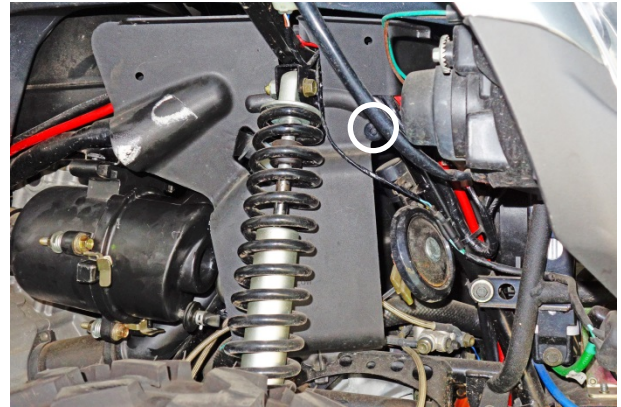
## PERIODIC MAINTENANCE

### AIR CLEANER FILTER

The air cleaner's filter element (air filter) captures dust in the intake air and prevents it from entering the engine. Because of this dust, it must be cleaned periodically. If you ride your ATV in dusty areas, the air filter must be cleaned more frequently than suggested in the Maintenance Schedule. If you submerge the ATV in water, the air cleaner compartment must be drained of water immediately, and the air filter should be checked for damage.

#### Air filter cleaning

- A. Remove the protector of hose.
- B. Rotate the three latches to release the filter housing cover, then inlet boot clamp.
- C. Remove the filter housing cover and air filter element.
- D. Fill an adequately sized wash pan with a nonflammable solvent and wash the element clean of debris.
- E. Squeeze the element by pressing it between the palms of both hands to remove excess solvent. Do not twist or ring-out the element or you may damage it.
- F. Dry the element.





## PERIODIC MAINTENANCE

- G. Put the element into a plastic bag. Pour air filter oil into the bag and work the oil into the element.
- H. Squeeze the element to remove excess oil.

### CAUTION

A torn air filter can cause damage to your ATV's engine. Dirt and dust may get inside the engine if the element is torn. Carefully examine the element for tears before and after cleaning it. Replace the element with a new one if it is torn or damaged in any way.

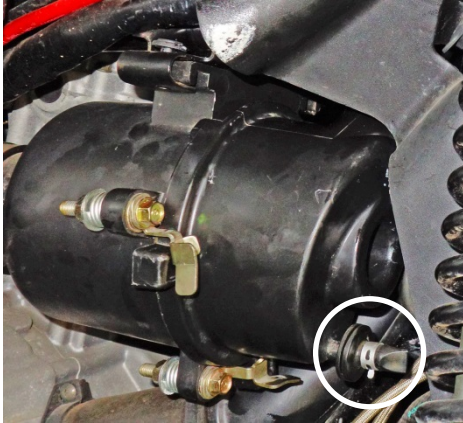
- I. Clean any dirt or debris from inside the air cleaner. Be sure no dirt enters the carburetor.
- J. Re-install the air filter and cover.
- K. Reconnect the inlet boot and tighten the clamp securely.



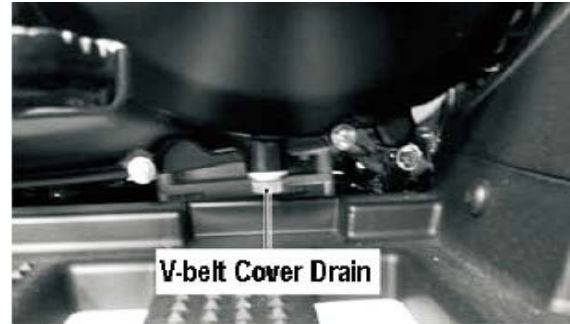
## PERIODIC MAINTENANCE

### AIR CLEANER HOUSING DRAIN TUBE

You should occasionally drain any fluid that has accumulated in your ATV's air filter housing. Do this using the rubber-flap drain valve located on the side of the housing. Squeeze the flap to allow fluid to drain from the housing. Inspect the drain to make sure it is not blocked with debris and it is sealing properly.



### DRAINING THE V-BELT COVER



- **NOTE:** If your ATV has been driven through water, the V-belt cover must be drained of any fluid.
- A. Place your ATV on a level ground.
- B. Remove the drain bolt from the cover to allow fluid to drain out.
- C. Shift the range lever to the neutral position, and then start the engine.
- D. Increase and decrease the engine RPM several times to force out any additional fluid, then stop the engine.
- E. Reinstall the drain bolt and tighten it securely.
  
- **NOTE:** The V-belt and pulleys should be inspected every 500 miles and the belt replaced when necessary.

## PERIODIC MAINTENANCE

### THROTTLE LEVER ADJUSTMENT

Proper throttle lever adjustment is required so you can precisely control the engine's power output.

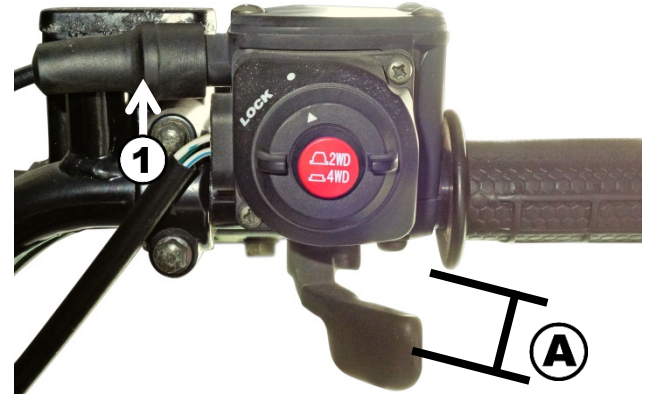
- **NOTE:** Adjust the engine idle speed before adjusting the throttle lever free play.

To adjust the throttle lever free play:

- Slide the protective rubber sleeve ① back to expose the throttle cable adjuster.
  - Loose the lock nut on the adjuster, then turn the adjuster in or out to obtain the proper free play at the throttle lever.
- **Adjustment specification**  
Throttle lever free play **(A)** : 1/8 – 1/4 in (3 - 5mm)
- After adjustment, tighten the lock nut and slide the rubber sleeve back over the cable adjuster.

#### Other checks:

Check the throttle cable for kinks or signs of wear that could cause stretching or failure. Lubricate the throttle cable with a commercially available lubricant to prevent premature wear and corrosion.



## PERIODIC MAINTENANCE

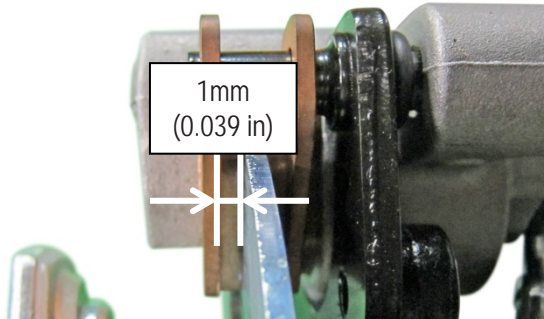
### BRAKE HOSES

Carefully inspect the hydraulic brake hoses for cracks or other damage. If found, take the ATV to an authorized KYMCO ATV dealer to have the brake hoses replaced.

### BRAKE PADS

The clearance between the brake pads and brake disc is adjusted automatically as the pads wear. The only maintenance that is required is to replace brake pads when they become worn. To check the thickness of the brake pads follow the procedure below:

1. Remove the front wheel
2. Measure the thickness of each brake pad



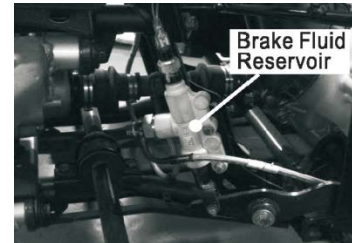
3. If the thickness of the pads is less than 1.0 mm (0.039 in), take the ATV to a KYMCO ATV dealer to have brake pads replaced.
4. Reinstall the wheel and tighten the lug nut to 40 ft-lb.

### REAR FOOT BRAKE

Your ATV's rear foot brake must be maintained periodically to remain fully function.

#### **⚠ WARNING**

**Before service, wait for the muffler to cool to avoid burns.**



- **NOTE:** The brake fluid reservoir is located under the seat.
- A. Press down on the rear brake pedal several times to check for firmness.
- B. If the pedal response is not firm, the system must be bled.

## PERIODIC MAINTENANCE

### BRAKE FLUID INSPECTION

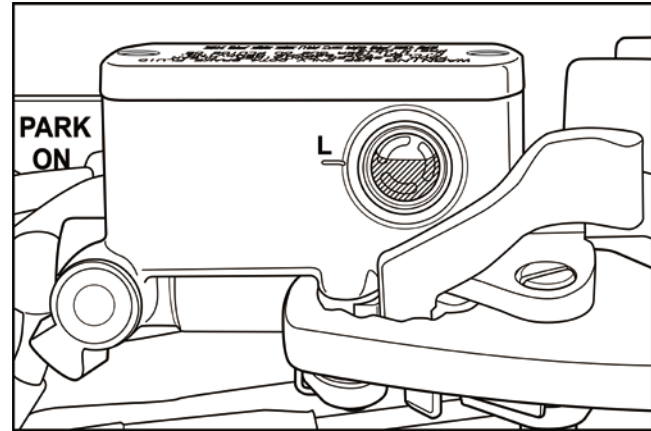
Check the brake fluid level and appearance in the brake fluid reservoirs.

Check the fluid in each front brake fluid reservoir:

- A. The fluid level should not be below the "L" mark.
  - B. If below the "L" mark, remove the reservoir cap and add brake fluid of the proper type.
- **Fluid specification**  
Brake fluid type: DOT 4 (from a sealed container)

#### CAUTION

Be careful not to spill any fluid when filling the brake fluid reservoir. Brake fluid can damage the finish of plastic parts, so wipe away spilled fluid immediately.



## PERIODIC MAINTENANCE

### COOLING SYSTEM INSPECTION

Your ATV is equipped with a liquid-cooled engine which provides an excellent balance of performance, longevity and operating efficiency. Maintaining the fluid in the cooling system is essential for proper engine life and performance.

#### Checking the fluid level in coolant reservoir:

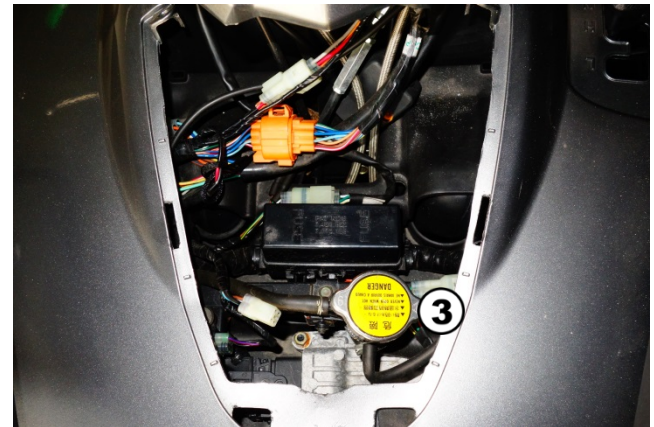
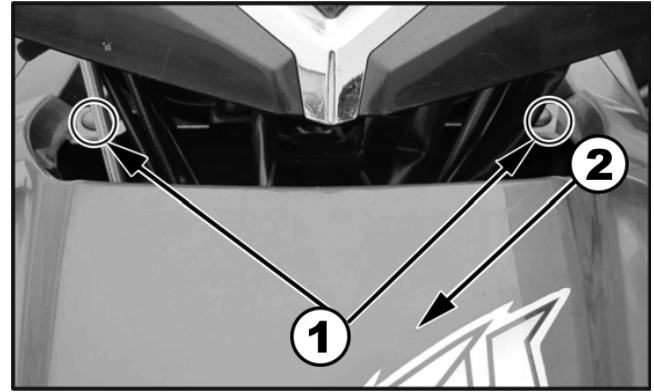
- A. Remove the fasteners **①** and then remove the front body cover **②**.
- B. Check the coolant level in the coolant reservoir when the engine is cold (as the coolant level will vary with engine temperature). The coolant level should be between the **FULL** and the **LOW** marks embossed on the side of the reservoir.
- C. If the fluid level is low, remove the reservoir cap **③** and then add coolant or distilled water to raise the fluid up to the **FULL** mark.

#### **⚠ CAUTION**

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

#### Recommended Coolant Solution

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

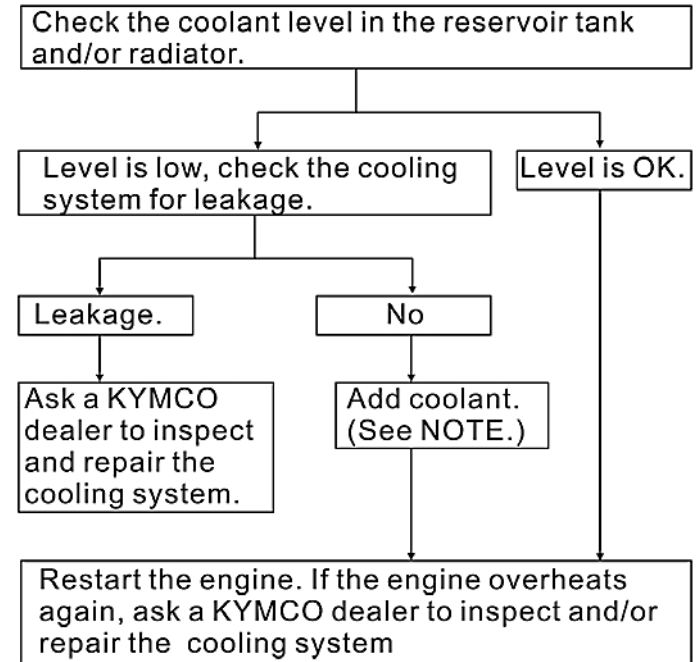


## PERIODIC MAINTENANCE

- **NOTE:** If you add water to your coolant, have a KYMCO dealer check the antifreeze content of the coolant as soon as possible. A low antifreeze ratio can reduce the efficiency of the cooling system and could cause corrosive damage to engine components.
- **NOTE:** The radiator's cooling fan operation is completely automatic. It is switched on or off according to the coolant temperature in the radiator (when the ignition switch is "ON").

## ENGINE OVERHEATING

If your ATV's engine begins to overheat, find a place to safely stop and allow the engine to cool.





## PERIODIC MAINTENANCE

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Remove the radiator cap when the engine and the radiator are still hot.

#### **WHAT CAN HAPPEN**

You could be burned by hot fluid and steam blown out of the radiator under pressure.

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

Wait for the engine to cool before removing the radiator cap. Always use a thick rag over the cap. Allow any remaining pressure to escape before completely removing the cap.

When the maintenance schedule recommends coolant fluid replacement, have this service performed by your KYMCO dealer.

- **NOTE:** If you cannot obtain the recommended coolant, tap water can be temporarily used, provided that you have your KYMCO dealer flush the system and install the proper coolant as soon as possible.

## WHEELS

### WHEEL REMOVAL

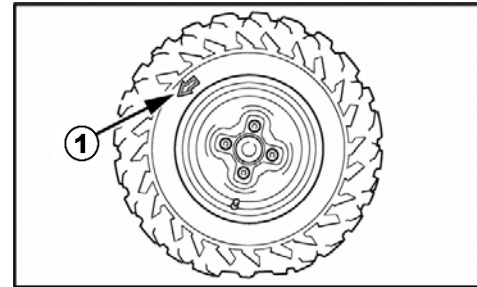
In case you need to remove a wheel for component inspection or service, follow the procedure listed below.

#### **Wheel removal procedure:**

- A. Park your ATV on a level ground and engage the parking brake.
- B. Using a suitable and sturdy stand under the frame, elevate the ATV so the wheel is off of the ground.
- C. Remove the four lug nuts from the wheel.
- D. Remove the wheel from the ATV.

### WHEEL INSTALLATION

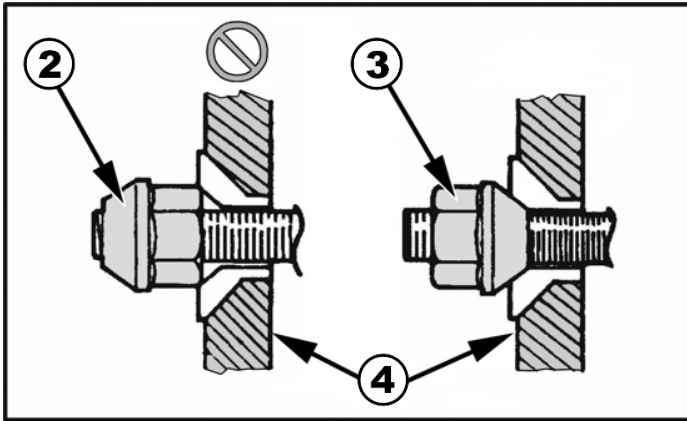
Verify the tire rotation as you reinstall the wheel on the ATV; note the directional arrow **①** on the tire.



- **NOTE:** When reinstalling a wheel, tighten the wheel's lug nuts in a crisscross (rather than a circular) pattern.



## PERIODIC MAINTENANCE



- NOTE: Make sure the tapered side ② of the lug nuts ③ face the wheel rim ④.
- NOTE: Tighten the lug nut to the specific torque.
- Tightening torque:

Fastener	Torque		
	ft-lb	n-m	kgf-m
Front wheel lug nut	36.2~44.1	50~61	5.0~6.1
Rear wheel lug nut	36.2~44.1	50~61	5.0~6.1

### WARNING

#### POTENTIAL HAZARD

Install wheels incorrectly on the ATV.

#### WHAT CAN HAPPEN

A wheel may come loose, possibly causing an accident

#### HOW TO AVOID THE HAZARD

Carefully follow the instructions in the OwnersManual.

If you have any concerns or doubts about your ability to remove or install a wheel properly, have this service performed by your KYMCO dealer.

## PERIODIC MAINTENANCE

### TIRE TREAD

The use of worn-out tires on your ATV 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 ATV before reaching the service limit for tread depth.



#### **⚠ WARNING**

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

### TIRE REPLACEMENT

Your ATV 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 is damaged, air may leak. If you do not have access to the proper tools or lack the technical ability, have your tires serviced by an authorized KYMCO ATV dealer.

#### **⚠ CAUTION**

When breaking the tire bead loose from the wheel, be extremely careful not to damage the inner wheel surface or the tire bead.

#### **⚠ WARNING**

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

## PERIODIC MAINTENANCE

### TUBELESS TIRE REPAIR

A leak or flat tire occurs due to a puncture, the tire may be temporarily 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 ATV in areas where transportation or service facilities are not readily available, you should carry a plug-type repair kit and a tire pump.

#### **⚠ WARNING**

The use of an improperly repaired tire on your ATV can be dangerous and can increase the risk of an accident. Have your KYMCO dealer inspect any repaired tire as soon as possible.

- About Tire specification always use genuine part.

### BATTERY



The battery is a sealed type, so it is not necessary to check the electrolyte level or add distilled water. If the battery is weak, see your KYMCO dealer for advice, for battery charging or replacement. If you replace the battery, select one that is sealed and is equivalent to the original battery in size and capacity.

#### **⚠ CAUTION**

Be sure to read and follow all of the safety precautions imprinted on the battery.

Do not attempt to remove the caps from the top of the battery cells, as this will damage the battery.

Although the battery is sealed, it can vent explosive gases and should be handled with appropriate care.

## PERIODIC MAINTENANCE

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Allowing open flames or sparks near the battery.

#### **WHAT CAN HAPPEN**

Gases may explode and possibly cause injury.

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

Do not allow open flames or sparks near the battery.

- **NOTE:** If your ATV is to be stored for an extended period of time (more than one week of nonuse), remove the battery from the vehicle and charge it fully. Then store it in a cool, dry place. If the battery is to be left on the vehicle, disconnect the negative battery terminal lead.
- **NOTE:** When charging your ATV's battery, use a battery charger designed for a sealed, maintenance-free type battery with an output acceptable to the battery's capacity.
- **NOTE:** The battery posts, terminals and related components contain lead and lead compounds. Wash your hands after handling these items.

### Battery Removal



- A. Make sure the ignition switch is OFF.
- B. Remove the battery hold-down and then disconnect the battery cables (negative cable first)
- C. Remove the battery from the battery compartment.

Install in the reverse order of work.

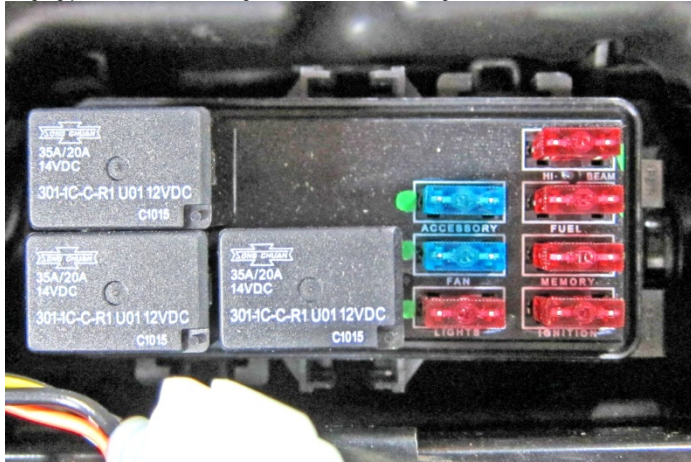
### **⚠ CAUTION**

When installing the battery, first connect the positive [+] cable and then the negative [-] cables to avoid an electrical short circuit.

## PERIODIC MAINTENANCE

### FUSES

The fuse box is located in a power distribution module in front of the steering post under the electrical access panel. If there is any type of electrical system failure, always check the fuses first.



### ⚠ CAUTION

To avoid an electrical short circuit, turn off the main ignition switch before checking or replacing a fuse.

### To replace a fuse:

- A. Make sure the ignition switch is **OFF**.
- B. Remove the fuse box cap.
- C. Remove the old fuse from the fuse holder.
- D. Insert a new fuse (of the proper capacity).
- E. Reinstall the fuse box cap.

### ⚠ WARNING

#### POTENTIAL HAZARD

Using an improper fuse.

#### WHAT CAN HAPPEN

An improper fuse can cause damage to the ATV's electrical system which could lead to a fire.

#### HOW TO AVOID THE HAZARD

Always use a fuse of the specified rating. Never use a foreign object or metal material in place of a proper fuse.

## PERIODIC MAINTENANCE

### LIGHT BULB REPLACEMENT

The wattage rating of each bulb is listed below. When replacing a bulb on your ATV, always use the same wattage rating.

Headlight	12V/ 35W
Taillight/Brake light	12V/ 5W/ 21W

#### CAUTION

Only use light bulbs that are specified in this manual as replacement bulbs on your ATV.

### HEADLIGHT

- **NOTE:** The bulb portion of the headlight is fragile. **HANDLE WITH CARE.** When replacing the headlight bulb, do not touch the glass portion of the bulb. If the glass is touched, it must be cleaned with a dry cloth before installing. Oil residue from your skin on the bulb will cause the bulb to fail.

To replace the headlight bulb:

- Disconnect the wiring connector from the back of the headlight
- Grasp the bulb housing, turn it counterclockwise, and remove the bulb
- Install the new bulb into the housing and rotate it completely clockwise
- Reinstall the wiring harness connector

#### CAUTION

When replacing your ATV's headlight bulb, be careful not to touch the glass portion of the bulb. Grasp the new bulb with a clean cloth.

### TAILLIGHT / BRAKE LIGHT

- To replace your ATV's taillight/ brake light bulb, use the following procedure:
- Rotate the socket counterclockwise and remove it from the housing.
- To remove the bulb from the socket, push in and rotate counterclockwise.
- To install the new bulb, push in and turn clockwise.
- Insert the socket into the housing and rotate it clockwise.

## PERIODIC MAINTENANCE

### HEADLIGHT BEAM ADJUSTMENT

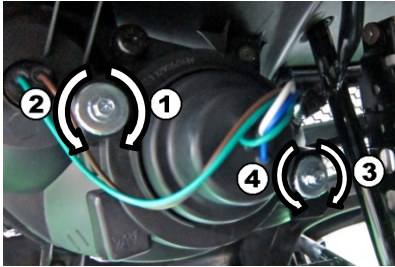
The headlight beam aim can be adjusted to best illuminate the trail when riding during low-light situations.

#### ⚠ CAUTION

It is recommended that your KYMCO dealer perform the headlight beam adjustment.

#### Headlight beam adjuster:

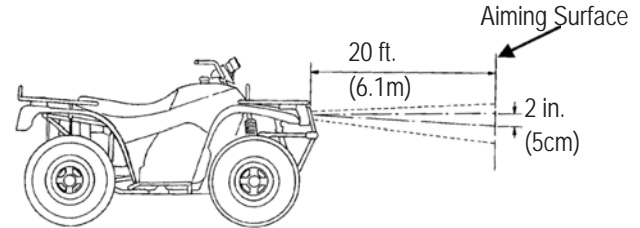
- A. Engage the parking brake and make sure the transmission is in neutral.
- B. Adjust each headlight's aim by rotating the adjuster knob.



- 1) To **raise** the headlight beam
- 2) To **lower** the headlight beam
- 3) To **inner** the headlight beam
- 4) To **outer** the headlight beam

#### Setting the headlight aim:

1. Position your ATV on a level floor so the headlights are approximately 20 ft. (6.1 m) from an aiming surface (a wall or similar surface)



- **NOTE:** There should be an average operating load on your ATV when adjusting the headlight aim.
2. Measure the distance from the floor to the center of each headlight
  3. Using the measurements obtained in step 2, make horizontal marks on the aiming surface
  4. Make vertical marks which intersect the horizontal marks on the aiming surface directly in front of the headlights
  5. Switch on the ATV's lights. Make sure the HIGH beam is on. **DO NOT USE LOW BEAM**
  6. Observe each headlight beam aim. Proper aim is achieved when the most intense beam part of the beam is centered on the vertical mark 2 in. (5 cm) below the horizontal mark on the aiming surface
  7. Adjust each headlight until you achieve the correct aim by turning the adjuster knob clockwise or counterclockwise (see image at left)

## PERIODIC MAINTENANCE

### DRIVE SHAFT BOOTS INSPECTION

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

### Ball Joint Boots (Upper/ Lower & Left/ Right)



- A. Secure your ATV on sturdy stand to elevate the front wheels
- B. Remove both front wheels
- C. Inspect the four ball joint boots for cracks, tears, or perforations.
- D. Check the ball joint for free-play by grasping the steering knuckle and turning it from side to side, and up and down.
- E. If boot damage is present or ball joint free-play seems excessive, contact an authorized KYMCO ATV dealer for service.

### Tie Rod Boots (Inner/ Outer & Left/ Right)

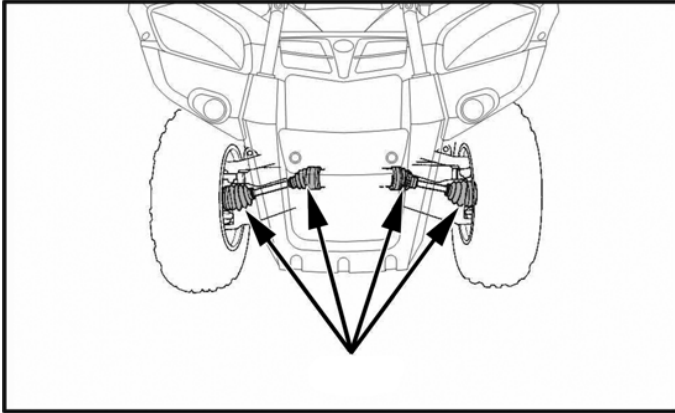


- A. Secure your ATV on sturdy stand to elevate the front wheels
- B. Remove both front wheels
- C. Inspect the four tie rod boots for cracks, tears, or perforations.
- D. Check the tie rod for free-play by grasping the steering knuckle and turning it from side to side, and up and down.
- E. If boot damage is present or tie rod free-play seems excessive, contact an authorized KYMCO ATV dealer for service.



## PERIODIC MAINTENANCE

### Drive Axle boots



- A. Inspect all drive axle boots for cracks, tears, or perforations.
- B. If boot damage is present, contact an authorized KYMCO ATV dealer for service.

## CONTROL CABLE INSPECTION & LUBRICATION

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Damaged control cables.

#### **WHAT CAN HAPPEN**

Corrosion can result when the outer sheath of the control cable is damaged. Cables can also become frayed or kinked.

In both cases, the operation of the controls could be affected, causing difficulty in controlling the ATV. This could lead to an accident or injury.

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

Inspect the control cables frequently. Replace damaged cables as soon as they are detected.

- **NOTE:** Lubricate the inner cables and the cable ends with the recommended lubricant. Do so more frequently if the ATV is operated in wet or cold conditions, or near salt water. If the cables do not operate smoothly, ask your KYMCO dealer to replace them.
- Cable lubricant specification KYMCO chain or cable lube -or- SAE 10W40 motor oil

## PERIODIC MAINTENANCE

### TROUBLESHOOTING

Although KYMCO vehicles receive a series of rigid inspections before shipment from the factory, a problem may occur during operation. Several systems could cause difficult starting or poor engine performance. The troubleshooting chart on the opposite page provides you with an easy guide to find the root cause of a problem. If you cannot find the cause of an operational problem (or need repairs) take your ATV to your KYMCO dealer.

The skilled technicians at a KYMCO dealership have the tools, experience, and resources to properly service your ATV. Imitation parts may look like KYMCO parts, but they are often inferior. Consequently they have a shorter service life and could cause other difficulties that could lead to a costly repair bill.

### WARNING

#### POTENTIAL HAZARD

Checking the fuel system while smoking or near an open flame.

#### WHAT CAN HAPPEN

Fuel can ignite or explode, causing severe injury or property damage.

#### HOW TO AVOID THE HAZARD

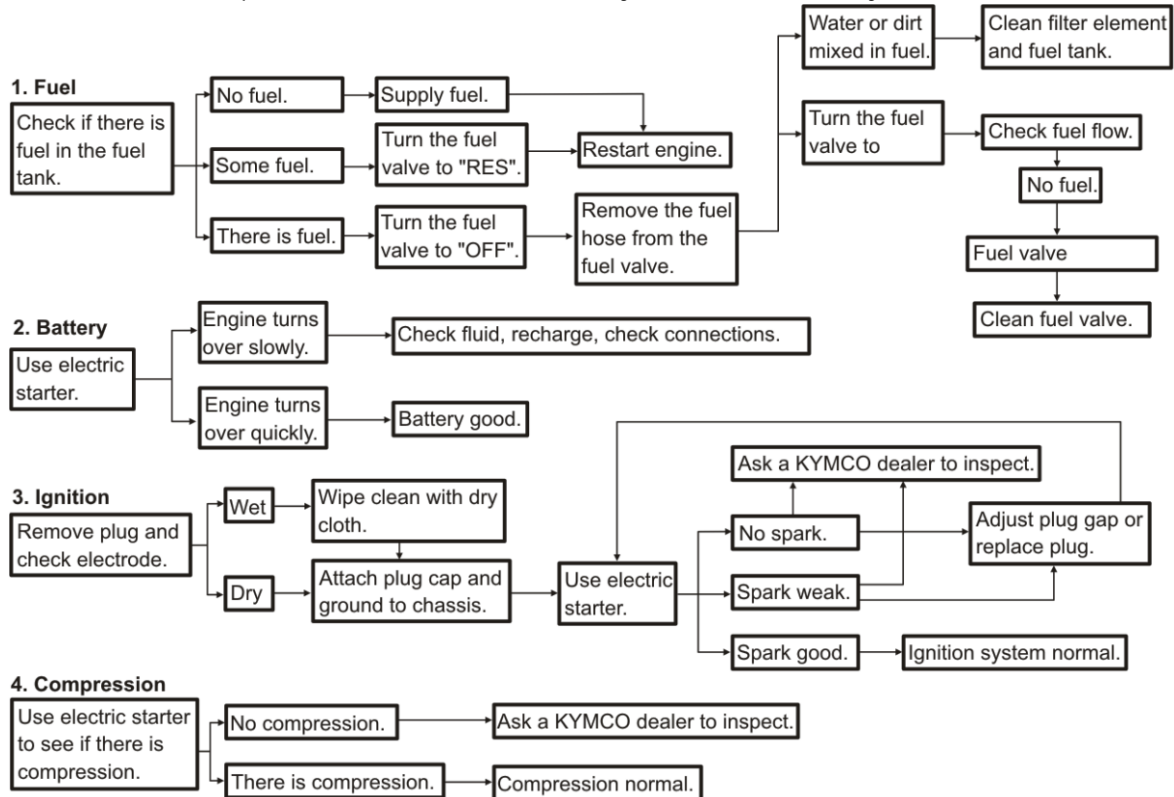
Do not smoke when checking fuel system components. Make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.

If you encounter any difficulty with your vehicle's fuel system or are unsure of the cause of a performance problem with your ATV, seek assistance from your KYMCO dealer as soon as possible.

# PERIODIC MAINTENANCE

## TROUBLESHOOTING CHART

Follow the flow chart to find the probable cause and situation for your vehicle's difficulty.



## PERIODIC MAINTENANCE

### CLEANING YOUR ATV

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

Additionally, thorough cleaning will help you to become familiar with your ATV and you will be able to recognize changes in its condition that will alert you that the vehicle requires service or repairs. This will assist you in making sure your ATV is safe for you and others to operate.

1. Before cleaning the ATV:
  - A. Block the end of the exhaust pipe to prevent water entry. Use a commercially available, tapered rubber plug or a plastic bag with a strong rubber band to cover the end of the exhaust.
  - B. Make sure the spark plug and all fluid/oil filler caps are properly installed.
  - C. Remove any items, such as the tool kit or Owner's Manual that could be damaged by water during cleaning. After cleaning, stow these items in plastic bags within the storage compartments.
2. If the engine case is excessively dirty or greasy, apply degreaser with a paint brush. Do not apply degreaser to the drive chain and sprockets (if equipped) or the wheel axles.

### CAUTION

Excessive water pressure may cause water and deterioration of wheel bearings, brakes, engine and transmission seals and electrical devices. Expensive repair bills can result from high-pressure water and detergent intrusion, which can be caused by a coin-operated car wash or even a small, home-style pressure washer. Damage caused by water intrusion of this type is not a defect, and repairs are not covered by the KYMCO Limited Warranty.

3. Rinse the dirt and degreaser off with a garden hose under normal pressure. Use only enough water pressure to rinse the engine clean.
4. Once the majority of the dirt has been rinsed off, wash all of the surfaces with warm water and a mild, detergent- type soap. Small brushes, such as a tapered bottle brush or an old toothbrush, are effective for cleaning hard-to- reach areas.
5. Rinse the ATV off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbent cloth.
6. If the ATV is equipped with a chain, dry the chain and lubricate it to prevent rust.

## PERIODIC MAINTENANCE

7. Lubricate other items, such as the exposed ends of control cables, to dissipate any moisture and prevent corrosion.
8. Remove the seat and clean and dry the under-seat compartment, plus any components that may be dirty or wet.
9. Clean the seat with vinyl upholstery cleaner to keep the cover pliable and glossy.
10. Automotive type wax can be applied to all painted and chrome plated surfaces. Avoid combination cleaner-waxes as they may contain abrasives which may mar the paint or protective finish.
11. When finished, start the engine and allow it to idle for several minutes to evaporate any residual moisture.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating your ATV with wet brakes after washing.

#### **WHAT CAN HAPPEN**

Wet brakes have reduced stopping ability which can increase the chance of an accident.

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

Test the brakes after washing. Apply the brakes several times at slow speeds to let friction dry out the brake pads and rotors.

## PERIODIC MAINTENANCE

### PREPARATION FOR STORAGE

#### CAUTION

Prior to storing your ATV for an extended time, it should inspect for any needed service and repairs, and any such work should be completed. If said service needs are not addressed before storage, it is possible they may be forgotten when the ATV is re-moved from storage causing it to operate improperly or in an unsafe manner.

The ATV should also be cleaned properly so dirt and moisture cannot cause component rusting and deterioration.

KYMCO recommends the procedures listed on these pages to prepare your ATV for storage. Following these recommendations will help you avoid deterioration of your ATV from nonuse during an extended storage period. If you lack the technical ability to prepare your ATV for storage, consult an authorized KYMCO dealer about performing this service.

1. Change the engine oil.
2. Drain the fuel tank (and carburetor if so equipped). Be sure to drain the fuel in a well-ventilated area, not in a garage or similar structure.

#### WARNING

##### POTENTIAL HAZARD

Handling fuel improperly when refueling the ATV.

##### WHAT CAN HAPPEN

Fuel can ignite or explode, causing severe injury or property damage.

##### HOW TO AVOID THE HAZARD

Always refuel the ATV or handle fuel in a well-ventilated area with the engine off. Do not smoke or allow open flames or sparks in the area where the fuel is being handled.

Do not overfill the tank or the fuel storage container. Be careful to not spill fuel when refueling or draining a fuel tank. After refueling, make sure the fuel filler cap is closed properly and securely.

If any fuel is spilled, make sure the area is dry before starting an engine.

If you encounter any difficulty with your vehicle's fuel, seek assistance from your KYMCO dealer.

- NOTE: If you do not drain the fuel tank completely, add a fuel stabilizer to the fuel in the tank. See your KYMCO dealer to obtain this additive.

## PERIODIC MAINTENANCE

### WARNING

#### POTENTIAL HAZARD

Prolonged contact of fuel with skin, or breathing fuel vapor.

#### WHAT CAN HAPPEN

Contact with fuel can cause skin irritation. Fuel vapor can cause lung damage.

#### HOW TO AVOID THE HAZARD

Avoid repeated or prolonged contact of fuel with skin or inhaling of fuel vapor.

#### KEEP FUEL OUT OF THE REACH OF CHILDREN.

3. Remove the spark plug and pour one tablespoon (15 - 20cc) of clean engine oil into the cylinder. Use the electric starter to turn the engine over a few revolutions to distribute the oil, and then reinstall the spark plug.
4. Remove the battery and store it in an area protected from freezing temperatures and direct sunlight, and that is out of the reach of children. Charge the battery at least once a month during storage, using a proper capacity battery charger at the rate specified for the battery.

### WARNING

#### POTENTIAL HAZARD

Allowing open flames or sparks near the battery.

#### WHAT CAN HAPPEN

Gases from the battery may explode and may cause injury.

#### HOW TO AVOID THE HAZARD

Do not allow open flames or sparks near the battery.

**If you encounter any difficulty with your vehicle's battery or its charging, seek assistance from local KYMCO dealer.**

5. Wash and dry the ATV, and wax all painted surfaces.
6. Inflate the tires to their recommended pressures.
7. Place the ATV on block to raise all four tires off the ground.

### CAUTION

**Do not store your ATV outside in direct sunlight to avoid damage to the body work. If you place a cover over the ATV, make sure it is a ventilated type. Avoid using a plastic cover as moisture can condense on the ATV, causing rust and corrosion.**

## PERIODIC MAINTENANCE

### PREPARATION OF YOUR ATV FOR RIDING AFTER STORAGE

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

1. Clean your ATV thoroughly
2. Clean the engine. Remove the plug or the protective plastic sheet that is covering 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 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 front and rear brake systems. Verify the good condition of the brake fluid and pads, and that the braking controls operate properly.
7. Verify the proper operation and adjustment of all controls, headlights, taillights, brake lights, and the headlight aim - 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-Ride Inspection section of this manual.



## SPECIFICATIONS\*

<b>DIMENSIONS:</b>	
Length (Overall)	87.1 in (2085 mm)
Width (Overall)	43.39 in (1102 mm)
Height (Overall)	46.93 in (1192 mm)
Seat height	33.19 in (843 mm)
Wheelbase	47.91 in (1217 mm)
Minimum ground clearance	10.24 in (260mm)
Minimum Turning radius	106.1 in (2965 mm)
<b>WEIGHT:</b>	
MXU450i with engine oil and full fuel tank	648.3 lb (294 kg)
MXU450iLE with engine oil and full fuel tank	657.1 lb (298 kg)
<b>ENGINE:</b>	
Type	Liquid cooled, 4-stroke, DOHC
Cylinder arrangement	Single cylinder
Displacement	443 cc
Bore and stroke	3.5 x 2.8 in (89 x 71.2 mm)
Compression ratio	9.1:1
Starting system	Electric starter (recoil starter backup)
Lubrication system	Wet sump

\* Specifications subject to change without notice.

# SPECIFICATIONS\*

## ENGINE & TRANSMISSION OIL TYPES & CLASSIFICATIONS:

<p>Engine oil type (viscosity chart)</p>	<p>The chart displays the operating temperature ranges for five different SAE oil grades. The x-axis shows temperature in both Fahrenheit (top) and Celsius (bottom). The y-axis represents the oil grades. The ranges are as follows:</p> <table border="1"> <thead> <tr> <th>Oil Grade</th> <th>Temperature Range (F)</th> <th>Temperature Range (C)</th> </tr> </thead> <tbody> <tr> <td>SAE 5W</td> <td>10° to 30°</td> <td>-10° to 0°</td> </tr> <tr> <td>SAE 10W-30</td> <td>10° to 70°</td> <td>0° to 20°</td> </tr> <tr> <td>SAE 10W-40</td> <td>10° to 90°</td> <td>0° to 30°</td> </tr> <tr> <td>SAE 20W-40</td> <td>10° to 110°</td> <td>0° to 40°</td> </tr> <tr> <td>SAE 20W-50</td> <td>10° to 110°</td> <td>0° to 40°</td> </tr> </tbody> </table>	Oil Grade	Temperature Range (F)	Temperature Range (C)	SAE 5W	10° to 30°	-10° to 0°	SAE 10W-30	10° to 70°	0° to 20°	SAE 10W-40	10° to 90°	0° to 30°	SAE 20W-40	10° to 110°	0° to 40°	SAE 20W-50	10° to 110°	0° to 40°
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SAE 20W-40	10° to 110°	0° to 40°																	
SAE 20W-50	10° to 110°	0° to 40°																	

<p>Engine oil classification</p>	<p>API Service SJ type or higher</p>
<p>Front gear box oil classification</p>	<p>SAE #90</p>
<p>Rear gear box oil classification</p>	<p>SAE #90</p>

## ENGINE & TRANSMISSION OIL CAPACITIES:

<p>Engine oil (periodic oil change)</p>	<p>2.33 qt (2.2 L)</p>
<p>Engine oil (oil &amp; oil filter change)</p>	<p>2.54 qt (2.4 L)</p>
<p>Engine oil (total amount)</p>	<p>3.01 qt (2.85 L)</p>
<p>Front gear case oil (periodic oil change)</p>	<p>0.265 qt (0.25 L)</p>
<p>Front gear case oil (total amount)</p>	<p>0.286 qt (0.27 L)</p>
<p>Rear gear case oil (periodic oil change)</p>	<p>0.243 qt (0.23 L)</p>
<p>Rear gear case oil (total amount)</p>	<p>0.265 qt (0.25 L)</p>

\* Specifications subject to change without notice.

## SPECIFICATIONS\*

<b>INTAKE, FUEL &amp; IGNITION:</b>	
Air filter	Wet, foam type
Fuel (type)	UNLEADED
Fuel tank capacity	3.96 gal (15 L)
Fuel tank reserve capacity	0.71 gal (2.7 L)
Carburetion	KYMCO/PTA1 fuel injection
Spark plug type	CR7E (NGK)
Spark plug gap	0.028 - 0.031 in (0.7 - 0.8 mm)
<b>BRAKES:</b>	
Front brake type	Disc brake - dual brake rotors
Rear brake type	Disc brake - single brake rotor
<b>SUSPENSION:</b>	
Front	Dual A-arm type
Rear	Dual A-arm type
Front shock absorber	Coil spring/oil damper style
Rear shock absorber	Coil spring/oil damper style

*\* Specifications subject to change without notice.*

## SPECIFICATIONS\*

TIRES:	
Tire type	Tubeless (BIAS RUBBER)
MXU450i - size (front)	24 X 8-12
MXU450i - size (rear)	24 X 10-12
MXU450iLE - size (front)	24 X 8-12
MXU450iLE - size (rear)	24 X 10-12
ELECTRICAL:	
Ignition system	ECU - automatic control
Generator system	A.C. magneto
Battery type	12V, 18AH MF-type
Headlight	12V 35W/35W x 2
Brake light/tail light	12V 21W x2 / 12V 5W x2
Position light	12V 5W x2

*\* Specifications subject to change without notice.*

## EMISSION & NOTES TAMPERING ALERTS

### Crankcase Emission Control System

Your ATV's engine is equipped with a closed crankcase system. Blow by gases are routed back into 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 ATV 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

#### **TAMPERING WITH NOISE CONTROL SYSTEM COMPONENTS IS PROHIBITED:**

Certain local, state and federal laws and regulations prohibit the following acts, or related actions:

- (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use.
- (2) The use of the vehicle after such a device or element of design has been removed or rendered inoperative by any person.

**AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED IN THE TABLE BELOW:**

Exhaust system	Muffler Exhaust pipe Silencer
Intake system	Air cleaner case Air cleaner filter element Intake duct

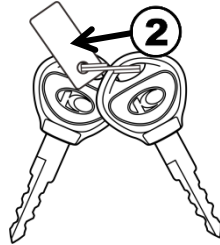
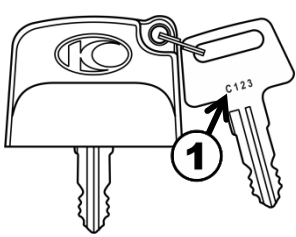
## MAINTENANCE RECORD

In the event your ATV requires repairs that may be covered by the KYMCO Limited Warranty, you will be required to present records and documents chronicling the maintenance history for the vehicle. The chart below can help you organize your records and serves as a reminder of the essential maintenance intervals. The chart alone is not documented proof of service; you will need to maintain copies of dealership repair orders and receipts of all maintenance-related purchases.

MAINTENANCE INTERVAL	SERVICE DATE	SERVICE DEALER (AND ADDRESS)	SERVICE NOTES
90 mi (150 km)			
600 mi (1000 km)			
1200 mi (2000 km)			
1800 mi (3000 km)			
2400 mi (4000 km)			
3200 mi (5000 km)			
3800 mi (6000 km)			
4200 mi (5000 km)			
4800 mi (8000 km)			
5400 mi (9000 km)			
6000 mi (10000 km)			



## IDENTIFICATION NUMBERS RECORD



① IGNITION SWITCH KEY ID NUMBER

② STEERING LOCK KEY ID NUMBER

③ VEHICLE IDENTIFICATION NUMBER (VIN)

④ ENGINE SERIAL NUMBER (ESN)

Record the Vehicle Identification Number and Engine Serial Number in the boxes above for future reference (to assist you in ordering parts from your authorized KYMCO ATV dealer or for reference in case the ATV is stolen).