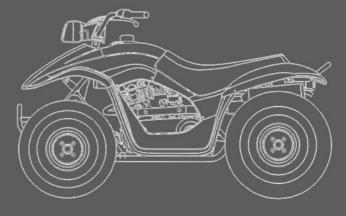


# KYMCO DRIVER'S MANUAL

KWANG YANG MOTOR CO.,LTD.

# MX'er 150/125 OFF-ROAD



### IMPORTANT MANUAL INFORMATION

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

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

Α	The SafetyAlert Symbol means ATTENTION I BECOME I YOUR SAFETY IS
	INVOLVEDI

	Failure to follow WARNING instructions could result in severe injury or death to
- W	the machine operator, abystander or a person inspecting the machine.

CAUTION:	A CAUTION indicates special precautions that be taken to avoid damage to the
	machine.

**NOTE:** A NOTE provides key information to make procedures easier or clearer.

## IMPORTANT NOTICE

This machine is designed and manufactured for OFF-ROAD use only. It is illegal and unsafe to operate this machine on any public street, road or highway.

This machine complies with all applicable OFF-R OAD noise level and spark arrester laws and regulation in effect at the time of manufacture.

Please check your local riding laws and regulations before operating this machine.

We greatly appreciate your patronage of KYMCO **MX'er 150/125** 

Dear Users:

This User's Manual describes the correct operating methods, inspection and maintenance procedures for the KYMCO **MX'er 150/125** in details in order to prolong the service life of motorcycle and provide you with a comfortable riding.

Please note that the information and illustrations included in this manual may be different from the motorcycle in case specifications are changed.

To enable you to have a safe and comfortable riding, we recommend you to

read this manual carefully and wish you a happy riding.

Note: 1. The information and specifications stated in this manual are for reference

only and subject to change without notice.

2. When starting the engine, the battery must be installed to facilitate starting and increase the engine performance.



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

# CONTENTS

LOCATION OF THE WARNING AND	CONTROL FUNCTIONS	11
SPECIFICATION LABELS1	Main switch	11
	Indicator lights	12
	Handlebar switches	12
OA FETY IN FORMATION	Throttle lever	14
SAFETY INFORMATION4	Speed limiter	15
	Front brake lever	16
	Rear brake lever	16
DESCRIPTION AND MACHINE	Parking brake	16
IDENTIFICATION10	Drive select lever	18
	Fuel cock	19
	Starter (choke)	20
	Seat	

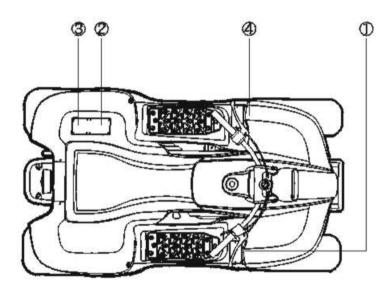
PRE-OPERATION CHECKS	22	Parking	3
Front and rear brakes	23	Parking on a slope	
Fuel	24	Accessories and loading	
Engine and transmission oil	26		
Chain	27	Riding YourATV	4:
Throttle lever	27	Getting to know yourATV	
Fittings and fasteners	27	Ride with care and good	
Lights	27		4.4
Switches	27	judgement	
Battery		Be careful where you ride	
Tires		Turning your ATV	
How to measure tire pressure		Climbing uphill	6
Tire wear limit		Riding downhill	71
		Crossing a slope	7
OPERATION	31	Crossing through shallow water	7
Starting a cold engine	31	Riding overrough terrain	71
Starting a warm engine		Sliding and skidding	7
Warming up		What to do if	
Drive select lever operation and rever	se	What to do	7
driving	34	TITLE IN MY DESIGNATION OF THE PROPERTY OF THE	
Engine break-in	36		

ERIODIC MAINTENANCE AND	Brake lever lubrication11
DJUSTMENT81	Knuckle shaft, lowerarms and steering
Owner's manual and toolkit81	shaft lubrication10
Periodic maintenance/Lubrication83	Wheel removal10
Engine oil85	Wheel installation10
Transmission oil87	Battery10
Spark plug inspection89	Fuse replacement10
Airfiltercleaning91	
Idle speed adjustment93	Replacing the headlight bulb11
Valve clearance adjustment94	Headlight be am adjustment11
Throttle lever adjustment95	Troubleshooting11
Front and rear brake shoe	Troubleshooting chart11
inspection96	
Front brake lever free play	CLEANING AND STORAGE11
adjustment97	A. Cleaning11
Rear brake adjustment99	B. Storage11
Drive chain slack check101	
Drive chain slack a djustment101	SPECIFICATIONS11
Drive chain cleaning and	OF EGIFICATION OF THE STATE OF
lubrication103	
Draining the V-belt compartment 104	

Cable inspection and lubrication......104

NOISE REGULATION	.122
MAINTENANCE RECORD	.123

# LOCATION OF THE WARNING AND SPECIFICATION LABELS



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

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





# **⚠ WARNING**



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

**NEVER** operate this ATV if you a reunder a ge 16.

# **∧ WARNING**

IM PROPERTIRE 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: FR ONT : 24 kpa, (0.2.4 kgf/c m²), 3.5 psi

REAR : 30 kpa, (0.30 kgf/cm²), 4.4 psi

Minimum : FR ONT : 20 kpa, (0.20 kgf/cm²), 2.9 psi

REAR : 26 kpa, (0.26 kgf/cm²), 3.8 psi

N ever set tire pressure be low minimum.

It could cause the tire to dislodge from the rim.

#### LO ADIN G

- Maximum Ve hicle Load: 100 kg, (220 lbs).

Includes weight of operator, cargo and accessories.



# **₩ARNING**



# NEVER ride as a passenger.

Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.



# Improper ATV use can result in SEVERE INJURY or DEATH.



4

ALWAYSUSEAN APPROVED HELMETAND PROTECTIVE GEAR



NEVERUSE NEVER CARRY ON PUBLIC PASSENGERS ROADS



NEVERUSE WITH DRUGS ORALCOHOL

## NEVER operate :

- · Without proper training or instruction.
- At speeds too fast for your skills or the conditions.
- On public roads-a collision can occur with another vehicle.
- With a passenger-passengers affect balance and steering control.

#### ALWAYS:

- Use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- Avoid paved surfaces-pavement may seriously affect handling and control.

# **▲ SAFETY INFORMATION**

AN ATV IS NOTA TOYAND CAN BE HAZARDOUS TO OPERATE. An ATV handles differently from other vehicles including motorcycles and cars. A collision can occur quickly, even during routine maneuvers such as turning and riding on hills or over obstacles, if you fail to take proper precautions.

#### SEVERE INJURYOR DEATH can result if you do not follow these instructions:

- Read this manual and all labels carefully and follow the operating procedures described.
- Never operate an ATV without proper training or instruction. Take a Training Course.
   Beginners should receive training from a certified instructor. Contact an authorized ATV dealer to find out about the training courses nearest you.
- Always follow the agerecommendation:
- Achild under 16 years old should never operate an ATV with engine size greater than 90cc.
- Never allow a child under age 16 to operate an ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.

- Always avoid operating an AT V on any paved surfaces, including sidewalks, driveways, parking lots and streets
- · Never operate an ATV on any public street, road or highway, even a dirt or gravel one.
- Never operate an ATV without wearing an approved motorcycle helmet that fits porperly. You should also wear eye protection (goggles or face shield), gloves, boots, long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating this AT V.
- Never operate at speeds too fast for your skills or the conditions. Always go at a speed that is
  proper for the terrain, visibility and operating conditions, and your experience.
- · Never attempt wheel, jump, or other stunt.
- Always inspect your AT V 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 manual.
- Always keep both hands on the handlebars and both feet on the footboards of the AT V during operation.
- Always go slowly and be extra careful when operating on unfamiliar terrain. Always be alert to changing terrain conditions when operating the ATV.

- Never operate on excessively rough, slippery or loose terrain until you have learned and practice d
  the skills necessary to control the ATV on such terrain. Always be especially cautious on these
  kinds of terrain.
- Always follow proper procedures for turning as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speed.
- Never operate the ATV on hills too steep. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain
  care fully before you start up any hill. Never climb hills with excessively slippery or loose surfaces.
  Shift your weight forward. Never open the throttle suddenly. Never go over the top of a hill at high
  speed.
- Always follow proper procedures for going down hills and for braking on hills as described in this
  manual. Checkthe terrain carefully before you start down any hill. Shift yourweight backward.
  Never godown a hill at high speed. Avoid going down hill at an angle that would cause the vehicle
  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 excessively 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 technique 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 a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in this manual.
- Always check for obstacles before operating in a new area. Never attempt to operate overlarge
  obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating
  over obstacles as described in this manual.
- Always be careful when skidding or sliding. Learn to safely control skidding or sliding by
  practicing at low speeds and on level, smooth terrain. On extremely 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 deep er than that recommended in this
  manual. Remember that wet brakes may have reduced stopping ability. Test your brakes after
  leaving water. If necessary, apply them several times to let friction dry out the linings.
- Always use the size and type tires specified in this manual. Always maintain proper tire pressure
  as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo. Allow greater distance for braking.

# **⚠ WARNING**

#### POTENTIAL HAZARD

Improper handling of gasoline.

#### WHAT CAN HAPPEN

Gasoline can catch fire and you could be burned.

#### HOW TO AVOID THE HAZARD

Always turn off the engine when refueling. Do not refuel right after the engine has been running and is still very hot.

Do not spill gasoline on the engine or exhaust pipe/muffler when refueling.

Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources ofignition such as the pilot lights of water heaters and clothes dryers.

When transporting the machine in another vehicle, be sure it is kept upright and that the fuel cock is in the "OFF" position.

Otherwise, fuel may leak out of the carburetor or fuel tank.

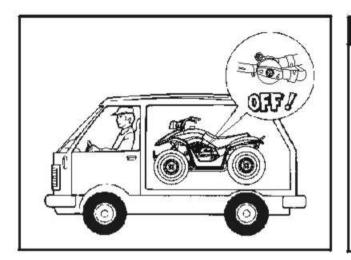
#### WHAT CAN HAPPEN

Gasoline is poisonous and can cause injuries.

#### HOW TO AVOID THE HAZARD

If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately.

If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.



# **MARNING**

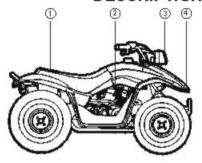
POTENTIAL HAZARD Starting or running the engine in a closed area.

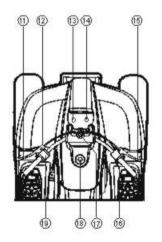
#### WHAT CAN HAPPEN

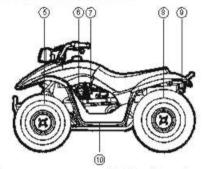
Exhaust fumes are poison ous and may cause loss of consciousness and death within a short time.

HOW TO AVOID THE HAZARD Always operate your machine in an area with adequate ventilation.

## DESCRIPTION AND MACHINE IDENTIFICATION







- 1. Seat
- 2. Drive select lever
- Headlight
- 4 Front cover
- 5. Front wheel
- 6. Starter (choke)
- 7. Fuel cock
- 8. Rear wheel
- 9. Spark arrester
- 10. Footboard

- 10. Footboard
- 11. Rear brake lever
- 12. Parking brake
- 13. Reverse indicator light
- 14. Neutral indicator light
- 15. Front brake lever
- 16 Throttle Lever
- 17 Main switch
- 18. Fuel tank cap
- 19. Handlebar switch

## NOTE:-

The machine you have purchased may differ slightly from those shown in the figures of this manual.

### CONTROL FUNCTIONS

# **⚠ WARNING**

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

### Mainswitch

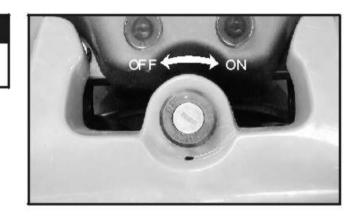
Functions of the respective switch positions are as follows:

#### ON:

Engine can be started only at this position and the headlight and taillight come onwhen the light switch is on.

#### OFF:

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



#### Indicator lights



- 1. Main switch
- 2. Reverse indicatorlight "REVERSE"
- 3. Neutral indicator light "NEUTRAL"

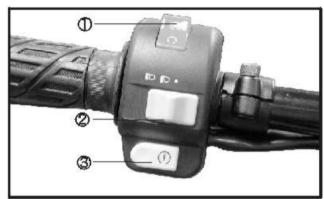
# Reverse indicator light "REVERSE"

This indicator light comes on when the transmission is in reverse.

## Neutral indicator light "NEUTRAL"

This indicator light comes on when the transmission in neutral

#### Handlebar switches



- 1. Engine stop switch "ENG. STOP"
- 2. Lights switch "LIGHTS"
- 3. Start switch "START"

# Engine stop switch "ENG. STOP"

Make sure that the engine stop switch is in the "RUN" position. The engine stop switch controls ignition and can be used at all times to stop the engine, especially in an emergency. The engine will not start or run when the engine stop switch is turned to "OFF"

#### Start switch "START"

The starter motor cranks the engine when this switch is pushed.

## CAUTION:

See starting instructions prior to starting engine (see page 31 for details).

## Light switch "LIGHTS"

Tum the switch to the "LO" position to switch on the low beam and the taillight.

Tum the switch to the "HI" position to switch on the high beam and the taillight.

Turn the switch to the "OFF" position to switch offthe headlight and the taillight.

# NOTE:

If the starters witch is pushed with the main switch "ON" and the engine stop switch "OFF", the starter motor will be activated but the engine will not start. To start the engine, be sure to position the engine stop switch at "RUN".

## NOTE:

The headlight and the taillight can be turned on onlywhen the engine is started.

#### Throffle lever

Once the engine is running, movement of the throttle lever will increase the engine speed. Regulate the speed of the machine by varying the throttle position. Because the throttle is spring-loaded, the machine will decelerate, and the engine will return to an idle any time the hand is removed from the throttle lever.



1. Throttle lever

Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.

# **⚠ WARNING**

POTENTIAL HAZARD
Malfunction of throttle.

WHAT CAN HAPPEN

The throttle could be hard to operate, making it difficult to speed up or slow down when you need to. This could cause an accident.

HOW TO AVOID THE HAZARD
Check the operation of the throttle lever
before you start the engine. If it does not
work smoothly, check for the cause.
Correct the problem before riding the ATV.
Consult a KYMCO dealer if you can't find or
solve the problem yourself.

## Speed limiter

The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Screwing in the adjuster limits the maximum engine power available and decreases the maximum speed of the ATV.



1. Adjuster

2. Locknut

A. 15mm(0.6in)

# 

POTENTIAL HAZARD
Improperadjustment of the speed limiter
and throttle.

#### WHAT CAN HAPPEN

The throttle cable could be damaged. Improper throttle operation could result. You could lose control, have an accident or be injured.

HOW TO AVOID THE HAZARD Do not turn the speed adjuster out more than 15 mm (0.6 in). Always make sure the throttle lever free play is adjusted to 1.0~4.0 mm (0.04~0.16 in). See page 98.

#### Front brake lever

The front brake lever is located on the right handlebar. Pull it toward the handlebar to apply the front brake.



1. Front brake lever

## Rear brake lever (Drum brake)

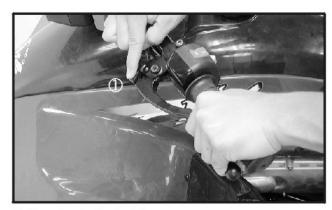
The rear brake lever is located on the left handlebar. Pull it toward the handlebar to apply the rear brake.



1. Rear brake lever

### Parking brake(The rear brake is drum brake)

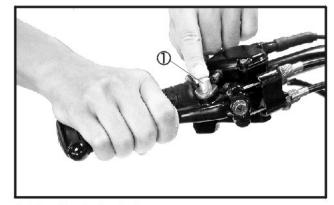
Use the parking brake when you have to start the engine or park the machine, especially on a slope. Apply the rear brake(drum brake) lever and push down the lock plate to apply the parking brake. Squeeze the rear brake lever to release the parking brake.



1. Rear brake lock plate

# Parking brake(The rear brake is disk brake)

Use the parking brake when you have to start the engine or park the machine, especially on a slope. Apply the front brake lever and push down the lock pin to apply the parking brake. Squeeze the front brake lever to release the parking brake



1. Front brake lock pin

# **⚠** WARNING

## **POTENTIAL HAZARD**

Improper use of the parking brake.

#### WHAT CAN HAPPEN

The ATV could start moving unexpectedly if the parking brake is not applied before starting the engine. This could cause loss of control or a collision.

The brake could overheat if you ride the ATV without releasing the parking brake. You could lose braking performance which could cause an accident. You could also wear out the brakes prematurely.

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

Always set the parking brake before starting the engine.

Always be sure you have released the parking brake before you begin to ride.

#### Drive select lever

The drive select lever is used for driving the machine either forward or in reverse. Refer to page 34 for drive select lever operation.

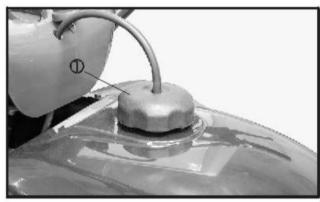


A. Drive select lever

- 2. For forward drive
- 1. Neutral
- 3. For reverse drive

# Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.



1. Fuel tank cap

#### Fuel cock

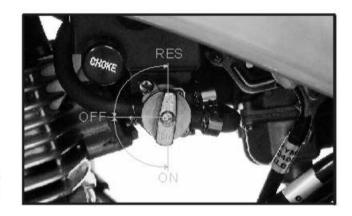
The fuel cock supplies fuel from the fuel tank to the carburetor.

The fuel cock has three positions.

OFF: With the lever in this position fuel will not flow. Always turn the lever to this position when the engine is not running.

ON With the lever in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position.

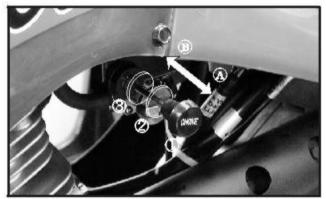
RES: This indicates reserve. If you run out of fuel while riding, turn the leverto this position. THEN FILL THE FUEL TANK AT THE FIRST OPPORTUNITY. After refueling, return the fuel cocklever to the "ON" position.



## Starter (choke)

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture.

Move in direction (a) to turn on the starter (choke)
Move in direction (b) to turn off the starter (choke)
Refer to "starting a cold engine" for proper
operation. (See page 31.)

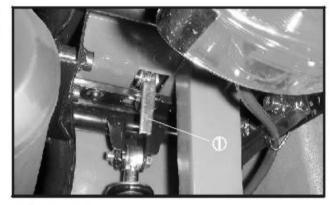


- 1. Fully open
- 3. Closed

- 2. Half open
- A. Starter (choke)

#### Seat

To remove the seat, pull the seatlock lever upward and pull up the seat the rear.

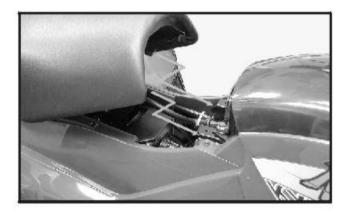


1. Seat lock lever

To install the seat, insert the projections on the front of the seat into the seat holders and push down on the seat at the rear.

# NOTE:-

Make sure that the seat is securely fitted.



# PRE-OPERATION CHECKS

Before using this machine, check the following points:

ITEM	ROUTINE	PAGE
Brake	<ul> <li>Check operation, condition, free play(drum brake) and brake fluid(disk brake).</li> <li>Adjust if necessary.</li> </ul>	23~24, 96~100
Fuel	Check fuel level.     Fill with fuel if necessary.	24~25
Engine oil and Transmission oil	Check oil level.     Fill with oil if necessary.	26, 85~89
Drive chain	<ul><li>Check chain slack and condition.</li><li>Adjust if necessary.</li></ul>	27, 101~103
Throttle	Check for proper throttle cable operation.	27
Wheels and tires	Check tire pressure, wear and damage.	28~30, 106
Fittings and fasteners	Check all fitting and fasteners.	27
Battery	Check fluid level.     Fill with distilled water if necessary.	27, 107~109
Lights	Check for proper operation.	27, 110~112

# **⚠** WARNING

#### POTENTIAL HAZARD

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

#### WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

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

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

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

#### Front and rear brakes

1. Brake levers(drum brake)
Check for correct free play in the brake levers.
If the free play is incorrect, adjust it. (See pages 97~100.)

Check operation of the levers. They should move smoothly and there should be a firm feeling when the brake is applied. If not, have the machine inspected by a KYMCO dealer.

# 2. Brake operation

Test the brakes at slow speed after starting out to make sure they are working properly. If the brakes do not provide proper braking performance, inspect the brakes for wear. (See page 96.)

# **⚠ WARNING**

#### POTENTIAL HAZARD

Riding with improperly operating brakes.

#### WHAT CAN HAPPEN

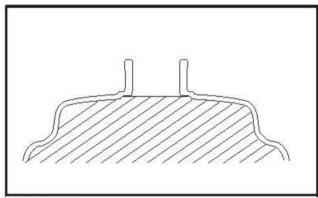
You could lose braking ability, which could lead to an accident.

#### HOW TO AVOID THE HAZARD

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

#### Fuel

Make sure there is sufficient gasoline in the tank.



1. Fuel level

Recommended fuel:

UNLEADED FUEL

Fueltank capacity:

Total: 8.1L(1.74 Impgal, 2.08 USgal)

Reserve: 1.0L(0.22Imp gal, 0.26US gal)

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



# POTENTIAL HAZARD Improper care when refueling.

#### WHATCANHAPPEN

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

Fuel expands when it heats up. If the fuel tank is overfilled, fuel could spill out due to heat from the engine.

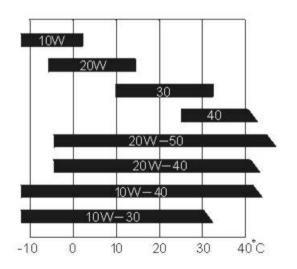
## HOWTO AVOID THE HAZARD

Do not overfill the fueltank. Be careful not to spill fuel, especially on the engine or exhaust pipe. Wipe up any spilled fuel immediately. Be sure the fuel tank cap is closed securely.

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

#### Engine and transmission oil

Make sure the engine and transmission oil at the specified level. Add oil as necessary. (See page 85.)



# **CAUTION:**

Be sure to use motoroils that do not contain anti-friction modifiers. Passenger car motoroils (often labeled "Energy Conserving") contain anti-friction additives which will cause clutch and/or starter clutch slippage, resulting in reduced component life and poor engine performance.

# Oil quantity:

Engine oil:

Periodic oil change:

0.9L

Total amount:

1.0L

Transmission oil:

Totalamount:

0.4L

#### Chain

Check the general condition of the chain and check the chain slack before every ride. Lubricate and adjust the chain as necessary. (See pages 101~103 for details.)

#### Throttle lever

Check to see that the throttle lever operates correctly. It must open smoothly and spring back to idle position when released. Repair as necessary for proper operation.

## Fittings and fasteners

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

# Lights

Check the headlight and taillight to make sure they are in working condition. Repair as necessary for proper operation.

#### Switches

Check the operation of the headlight switch, engine stop switch and any other switches. Repair as necessary for proper operation.

## Battery

Check fluidlever and fill if necessary. Use only distilled water if refilling is necessary.
(See pages 107~109.)

#### Tires

# **⚠ WARNING**

#### POTENTIALHAZARD

Operating this ATV withimproper tires, or with improper or uneven tire pressure.

#### WHAT CAN HAPPEN

Use of improper tires on this ATV, or operation of this ATV with improper or uneven tire pressure, may cause loss of control, increasing your risk of accident

#### HOW TO AVOID THE HAZARD

The tires listed below have been approved by Kwang Yang Motor Co., Ltd. for this model. Other tire combinations are not recommended.

	Size	Туре
Front	20*7-8	TUBELESS
Rear	22*10-8	TUBELESS

- 2. The tires should be set to the recommended pressure:
- Recommended tire pressure
   Front 20 kpa (0.20 kgf/cm², 2.9 psi)
   Rear25 kpa (0.25 kgf/cm², 3.6 psi)
- Check and adjust tire pressures when the tires are cold.
- Tire pressures must be equal on both sides.
- Tire pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions.

The following are minimums: Front 17 kpa (0.17 kgf/cm<sup>2</sup>, 2.5 psi) Rear22 kpa (0.22 kgf/cm<sup>2</sup>, 3.2 psi) 4.Use no more than the following pressures when seating the tire beads. Front 250 kpa (2.5 kgf/cm², 36 psi) Rear 250 kpa (2.5 kgf/cm², 36 psi) Higher pressures may cause the tire to burst. Inflate the tires very slowly and carefully. Fast inflation could cause the tire to burst.

# How to measure tire pressure

Use the low-pressure tire gauge.

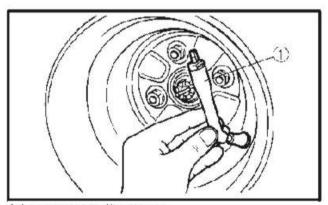
# NOTE:

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

Set pressure tires cold.

Set tire pressures to the following specifications:

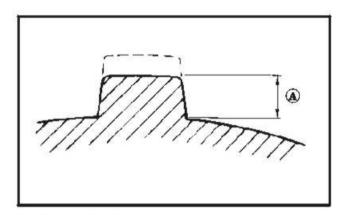
	Recommended pressure	Minimum	Max imum
Front	2 0 kpa	17 kpa	23 kpa
	(0.20 kgf/cm²,	(0.17 kgf/cm²,	(0.23 kg f/cm²,
	2.9 psi)	2.5 psi)	3.3 p si)
Rear	25 kpa	22 kpa	28 kpa
	(0.25 kg f/cm²,	(0.22 kgf/cm²,	(0.28 kgf/cm²,
	3.6 psi)	3.2 psi)	4.0 psi)



1. Low-pressure tire gauge

## Tire wear limit

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



A. 3mm (0.12 in)

# **OPERATION**

# **⚠ WARNING**

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

# **⚠ WARNING**

#### POTENTIAL HAZARD

Operating ATV without being familiar with all controls.

#### WHAT CAN HAPPEN

Loss of control, which could cause an accident or injury.

#### HOW TO AVOID THE HAZARD

Read the Owner's Manual carefully. If there is a control or function you do not understand, askyour KYMCO dealer.

## Starting a cold engine

# 

#### POTENTIAL HAZARD

Freezing control cables in cold weather.

## WHAT CAN HAPPEN

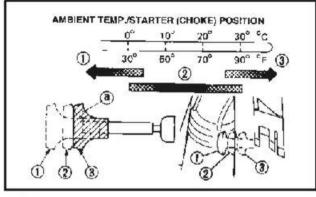
You could be unable to control the ATV, which could lead to an accident or collision.

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

- 1. Set the parking brake.
- 2. Turn the fuellock to "ON".
- 3. Turn the main switch to "ON" and the engine stop switch to "RUN".
- 4. Shift the drive select lever to neutral.

# NOTE:-

- The engine can be started only when the drive select lever is in neutral.
- When the select lever is in neutral, the neutral indicator light should come on. If the light does not come on, ask a KYM CO dealer to inspect it.
- 5. Use the starter (choke) in reference to the figure:
- Position Φ:Cold engine start-ambient temperature below 5C (40F).
- Position @:Cold engine start-ambient temperature at 0C (30F)~30C (90F) and warming up position.
- Position **3**:Cold engine start-ambient temperature above 25 C(80F) and warm engine start position.



- 1. Fully open
- 2. Halfopen

3. Closed

- a. Starter (choke)
- Completely close the throttle lever and start the engine by pushing the startswitch.

# NOTE:

If the engine fails to start, release the start switch, then push the start switch again. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds on each attempt.

- 7. If the engine is started with the starter (choke) in position 1, the starter (choke) should be returned to position 2 to warm up the engine. If the engine is started with the starter (choke) in position 2, keep the starter (choke) in this position to warm up the engine.
- Continue warming up the engine until it idles smoothly and return the starter (choke) to position 3 before riding.

# CAUTION:

See the "engine break-in section prior to operating engine for the first time.

# Starting a warm engine

To start a warm engine, refer to the "Starting a cold engine" section. The starter (choke) should not be used. The throttle should be opened slightly.

# Warming up

To get maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine! To see whether ornot the engine is warm, check if it responds to the throttle normally with the starter (choke) turned off.

# Drive select lever operation and reverse driving

# CAUTION:

Before shifting, you must stop the machine and return the throttle lever to its closed position. Otherwise, the transmission may be damaged.

- 1.Shifting: forward
  - A. Bringthe machine to a complete stop and return the throttle lever to the dosed position.
  - B. Shift the gear from neutral to forward by moving the shift lever along the shift guide.

# NOTE:-

Make sure that the lever is completely shifted into position.

C. Openthe throttle lever gradually.



- A Drive select lever
- 1. Neutral "N"

2. Forward "F"

- 3. Reverse "R"
- 2.Shifting : reverse
  - A. Bring the machine to a complete stop and return the throttle lever to the closed position.
  - B. Apply the parking brake:
  - C. Shift the gearfrom neutral to reverse and bymoving the shift lever along the shift guide.

## NOTE:

When in reverse, the reverse indicator light should be on. If the light does not come on, ask a KYMCO dealer to inspect the machine.

- D. Checkbehind for people or obstacles, then release the parking brake.
- E. Open the throttle lever gradually and ontinue to watch to the rear while backing.

# NOTE:

If the drive select lever is shifted into reverse while the engine is running, the engine will stop unless the parking brake is applied.

# **⚠ WARNING**

# POTENTIAL HAZARD

Improperly operation in reverse.

#### WHAT CAN HAPPEN

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

#### HOWTO 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.

## Engine break-in

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

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

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

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

#### 1.0~10 hours:

Avoid continuous operation above half throttle. Allow a cooling off period of five to ten minutes after every hour of operation. Vary the speed of the machine from time to time. Do not operate it at full throttle position.

#### 2. 10~20 hours:

Avoid prolonged operation above 3/4 throttle. Rev the machine freely through the gears but do not use full throttle at any time.

# 3. After break-in

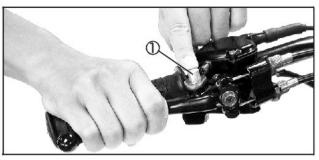
Avoid prolonged full throttle operation. Vary speeds occasionally.

#### **Parking**

When parking, stop the engine and shift into neutral. Turn the fuel lock to "OFF" and apply the parking brake.



1.Rear brake lock plate(The rear brake is drum brake)



1.Front brake lock pin(The rear brake is disk brake)

# Parking on a slope

# **A WARNING**

POTENTIAL HAZARD

Parking on a hill or other incline.

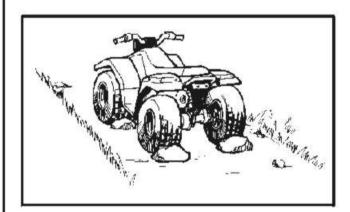
WHAT CAN HAPPEN

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

#### HOW TO AVOID THE HAZARD

Avoid parking on hills 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 andre ar wheels with rocks or other objects. Do not park the ATV at all on hills that are so steep you could not walk up them easily.

- Bring the machine to a stop by applying the brakes.
- 2. Stop the engine.
- 3. With the rearbrake applied, apply the parking brake.



# Accessories and loading

#### Accessories

Accessories can affect the handling and control of your ATV. Keep the following in mind when considering an accessory or operating an ATV which has accessories.

- Choose only accessories designed for your ATV. Your KYMCO dealer has a variety of genuine KYMCO accessories. Other accessories may also be available on the market. However, it is not possible for KYMCO totest all non-KYMCO accessories, nor have any control over the quality or suitability of them. Choose a genuine KYMCO accessory, or one that is equivalent indesign and quality.
- Accessories should be rigidly and securely mounted. An accessory which can shift position or come off while you are riding could affect your ability to control the ATV.

- Do not mount an accessory where it could interfere with your ability your to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that limits your ability to move around on the seat, or one that limits your view.
- Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

### Loading

As originally equipped, this ATV is not designed to carry cargo ortow atrailer. If you choose to add accessories so that you can carry cargo or towa trailer, you must use common sense and good judgment. Keep the following points in mind:

Never exceed the weight limit shown. An overloaded ATV can be unstable.

#### MAXIMUM LOADING LIMIT

Vehicle loading limit (total weight of cargo, rider and accessories):100kg (220 lb)

 Load cargo on the carriers as close to the center of the vehicle as possible. Put cargo at the rear of the front carrier and at the front of the rear carrier. Center the load from side to side.

- Tie down carg o securely to the carriers. Make sure cargo in the trailer cannot move around.
- A shifting load can cause an accident.
- Make sure the load does not interfere with controls or yourability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry, the slower you should go.
- Allow more braking distance. A heavier vehicle takes longer to stop.
- Avoid making sharp turns unless at veryslow speeds.
- Avoid hills and rough terrain. Choose terrain carefully, Added weight affects the stability and handling of the ATV.

# **⚠ WARNING**

#### POTENTIA LHAZARD

Overloading this ATV or carrying or towing cargo improperly.

#### WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

#### HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached.

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

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



















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

#### GETTING TO KNOW YOUR ATV

This ATV is for recreation and utility use. This section, riding your ATV, provides general ATV riding instructions for recreational riding. The skills and techniques described in this section, however, are appropriate for all types of riding. Riding your ATV requires special skills acquired through practice over a period of time. Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Riding yournew ATV can be a very enjoyable activity, providing you with hours of pleasure. But it is essential to familiarize yourself with the operation of the ATV to achieve the skill necess ary to enjoy riding safely. Before you beginto ride, be sure you have read this Owne's

Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 4~9. Please also read all caution and warning labels on your ATV.

#### RIDE WITH CARE AND GOOD JUDGEMENT

## Get training if you are inexperienced.

Beginners should get training from a certified instructor.

Become familiar with this ATV at slow speeds first, even if you are an experienced operator. Do not attempt to operate at maximum performance until you are totally familiar with the machine's handling and performance characteristics.

# **⚠** WARNING

#### POTENTIAL HAZARD

Operating this ATV without proper instruction.

#### WHAT CAN HAPPEN

The risk of an accident is greatly 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 THE HAZARD

Beginning and inexperienced operators should complete the certified training could complete the certified training course offered by KYMCO. They should then regularly practice the skills learned in the course and the operating techniques described in this Owne's Manual. For more information about the training

course, contact an authorized ATV dealer.

Riding your machine requires skills acquired through practice over a period of time.

Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Not recommended for children under 16 year of age.

# **↑** WARNING

## POTENTIAL HAZARD

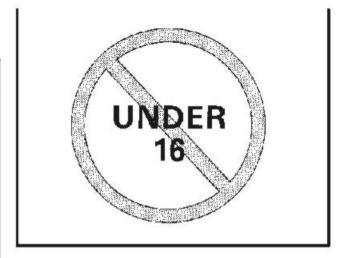
Failure to follow the age recommendations for this ATV.

#### WHAT CAN HAPPEN

Use by children of ATVs that are not recommended for their age can lead to severe injury or death of the child.

# HOW TO AVOID THE HAZARD

A child under 16 should never operate an ATV with engine size greater than 90cc.



This machine is designed to carry operator only-passengers prohibited.

# **⚠ WARNING**

POTENTIAL HAZARD

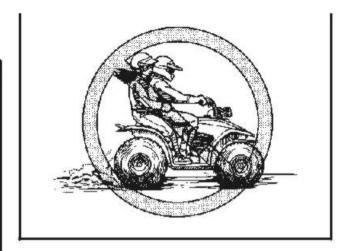
Carrying a passenger on this ATV.

## WHAT CAN HAPPEN

Greatly reduces your ability to balance and control this ATV. Could cause an accident, resulting in harm to you and/or your passenger.

#### HOW TO AVOID THE HAZARD

Never carry a passenger. The long seatis to allow the operator to shift position as needed during operation. It is not for carrying passengers.

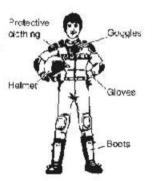


# **⚠ WARNING**

#### POTENTIAL HAZARD

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

WHAT CAN HAPPEN Operating without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident Operating without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.



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

HOW TO AVOID THE HAZARD
Always we ar an approved motorcycle
helmet that fits properly.
You should also wear:

eye protection boots

long-sleeved shirt or jacket Long pants

# Do not operate after consuming alcohol or drugs.

Operator's performance capability is reduced by the influence of alcohol or drugs.



# **⚠ WARNING**

#### POTENTIAL HAZARD

Operating this ATV after consuming alcohol or drugs.

#### WHAT CAN HAPPEN

Could seriously affect your judgment.

Could cause you to react more slowly.

Could affect your balance and perception.

Could result in an accident.

## HOW TO AVOID THE HAZARD

Never consume alcohol or drugs before or while driving this ATV.

## Pre-operation checks

Always perform the pro-operation checks listed on page 22 before riding for safety and proper care of the machine.

# **⚠ WARNING**

#### POTENTIA LHAZARD

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

#### WHATCANHAPPEN

Increases the possibility of an accident or equipment damage.

#### HOW TO AVOID THE HAZARD

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

Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

# **⚠ WARNING**

#### POTENTIALHAZARD

Operating this ATV withim proper tires, or with improper or uneven tire pressure.

#### WHATCANHAPPEN

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

#### HOW TO AVOID THE HAZARD

Always use the size and type tires specified in the Owner's Manual for this vehicle on pages 28~29.

Always maintain proper tire pressure as described in the Owner's Manual on page 29

# **⚠ WARNING**

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

Do not operate at speeds too fast your skills or the conditions.

# **⚠ WARNING**

#### POTENTIAL HAZARD

Operating this ATV at speeds too fast for your skills or the conditions.

#### WHAT CAN HAPPEN

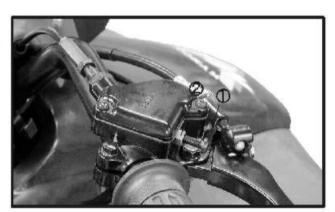
Increases your chances of losing control of the ATV, which can result in an accident.

#### HOW TO AVOID THE HAZARD

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

## Speedlimiter

For riders inexperienced with this model, this model is equipped with a speed limiter in the throttle lever housing. The speed limiter limits the power and top speed of the machine. Turning the screwin decreases top speed, and turning it out increases top speed.



1. Adjuster

2. Locknut

#### Loading and accessories

Use extra caution when riding the machine with additional loads, such as accessories or cargo. The machine's handling may be adversely affected. Reduce your speed when adding additional loads.

#### MAXIMUM LOADING LIMIT

Vehicle loading limit (Total weight of cargo, rider and accessories): 100 kg (220 lb)

# **⚠ WARNING**

#### POTENTIAL HAZARD

Overloading this ATV or carrying or to wing cargo improperly.

## WHAT CAN HAPPEN

Could cause changes in vehicle handling which could lead to an accident.

#### HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

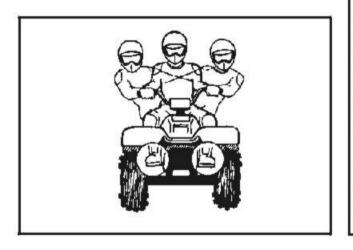
Cargo should be properly distributed and securely attached.

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

Always follow the instructions in your Owner's Manual for carrying cargo or pulling a trailer.

## During operation

Always keep yourfeet on the footboards during operation. Otherwise yourfeet may contact the rear wheels.



# **⚠ WARNING**

#### POTENTIALHAZARD

Removing hands from handlebars or feet from footboards during operation.

#### WHAT CAN HAPPEN

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

#### HOW TO AVOID THE HAZARD

Alwayskeep both hands on the handleb ars and both feet on the footboards of your ATV during operation.

Avoid wheelies and jumping. You may lose control of the machine or overturn.

# **↑** WARNING

#### POTENTIAL HAZARD

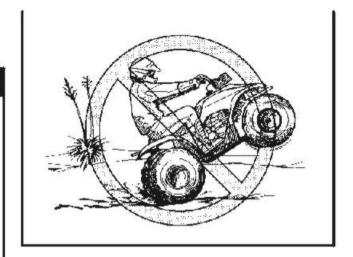
Attempting wheelies, jumps, and other stunts.

#### WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

#### HOW TO AVOID THE HAZARD

Never attempt stunts, such as wheelies or jumps. Don't try to show off.



#### Modifications

# **↑** WARNING

#### POTENTIAL HAZARD

Operating this ATV with improper modifications.

#### WHAT CAN HAPPEN

Improperinstallation of accessories or modification of this vehicle may cause changes in handling which in some situations could lead to an accident.

#### HOW TO AVOID THE HAZARD

Never modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine KYMCO or equivalent components designed for use on this ATV and should be installed and used according to instruction. If you have question, consult an authorized ATV dealer.

## Exhaust system

The exhaust on the machine is very hot during and following operation. To prevent burns, avoid touching the exhaust system. Park the machine in a place where pedestrians or children are not likely to touchit.

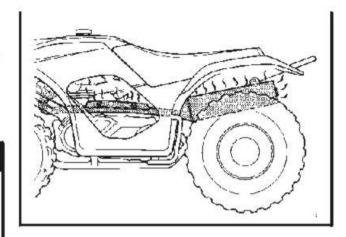
# **⚠ WARNING**

POTENTIAL HAZARD Hot exhaust system

WHAT CAN HAPPEN

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

HOWTO AVOID THE HAZARD
Do not touch the hot exhaust system.
Do not park the machine in a place where others might be likely to touch it.



#### BECAREFUL WHERE YOU RIDE

This machine is designed for off-road use only. Riding on paved surfaces can cause loss of control.

# **⚠ WARNING**

POTENTIAL HAZARD

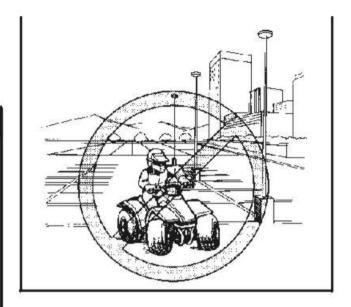
Operating this ATV on paved surfaces.

# WHAT CAN HAPPEN

ATV are designed for off-road use only.
Paved surfaces may seriously affect
handling and control of the ATV, and may
cause the vehicle to go out of control.

### HOW TO AVOID THE HAZARD

Always avoid paved surfaces, including sidewalks, driveways, parking lots and streets.



Do not ride on any public road, street, or highway.

Riding on public roads can result in collisions with other vehicles.

# **⚠ WARNING**

## POTENTIAL HAZARD

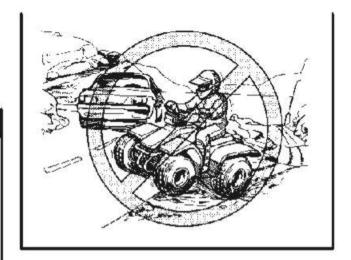
Operating this ATV on public streets, roads or highways.

## WHAT CAN HAPPEN

You can collide with another vehicle.

### HOW TO AVOID THE HAZARD

Never operate this ATV on any public street, road or high way, even a dirt or gravel one. In many states it is illegal to operate ATVs on public streets, roads and highways.



Know the terrain where you ride. Ride cautiously in unfamiliar areas. Stay alert for holes, rocks, or roots in the terrain, and other hidden hazards which may cause the machine to upset.

# **⚠ WARNING**

#### POTENTIAL HAZARD

Failure to use extra care when operating this ATV on unfamiliar terrain.

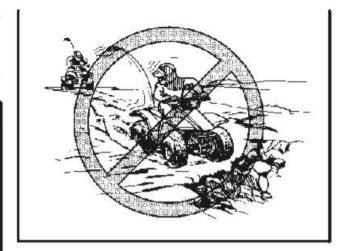
# WHAT CAN HAPPEN

You can come up on hid den rocks, bumps, or holes, without enough time to react.
Could result in the ATV overturning or going out of control.

HOW TO AV OID THE HA ZARD

Goslowly and be extra careful when operating on unfamiliar terrain.

Always be alert to changing terrain conditions when operating the ATV.



# **⚠ WARNING**

#### POTENTIAL HAZARD

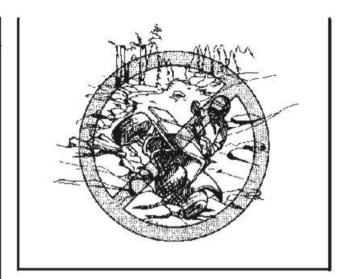
Failure to use extra care when operating on excessively rough, slippery or loose terrain.

#### WHAT CAN HAPPEN

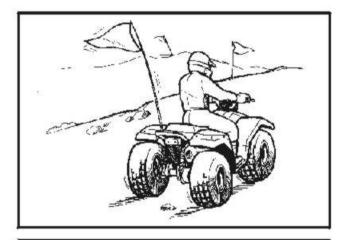
Could cause loss of traction or vehicle control, which could result in an accident, including an overtum.

# HOW TO AVOID THE HAZARD

Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATV on such terrain. Always be especially cautious on these kinds of terrain.



When riding in an area where you might not easily be seen, such as desert terrain, mount a caution flag on the machine. DO NOT use the flag pole bracket as a trailer hitch.



# **⚠ WARNING**

#### POTENTIAL HAZARD

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

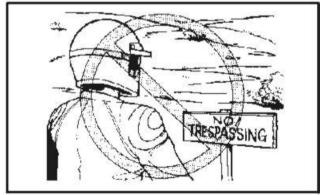
## WHAT CAN HAPPEN

You could bein a collision. You could be injured.

#### HOW TO AVOID THE HAZARD

Alwaysmount a caution flag on the machine to make you more visible. Watch carefully for other vehicles.

Do not ride in areas posted "no trespassing". Do not ride on private property without getting permission.



Select a large, flat area off-road to become familiar with your ATV. Make sure that this area is free of obstacles and other riders. You should practice control of the throttle, brakes, shifting before trying more difficult terrain. Always avoid riding on paved surfaces: the ATV is designed for off-road use only, and handling maneuvers are more difficult to perform on pavement.

Set the parking brake and follow the instruction on page 31 to start the engine. Once it has warmed up you are ready to begin riding your ATV. Remember that the engine and exhaust pipe will be hot when riding and afterwards; do not allow skin or clothing to come in contact with these components.

With the engine idling, return the starter knob to the closed position and shift the drive select leverinto the forward position. Then release the parking brake. Apply the throttle slowly and you will start to accelerate. If the throttle is applied too abruptly, the front wheels may lift off the ground resulting in a loss of directional control. Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

When slowing down or stopping, release the throttle and applythe brakes smoothly and evenly. Improperuse of the brakes can cause the tires to lose traction, reducing control and increasing the possibility of an accident.

#### TURNING YOUR ATV

To achieve maximum traction while riding offroad, the two rear wheels are mounted solidly
on one axle and turn together at the same speed.
Therefore, unless the wheel on the inside of the
turn is allowed to slip or lose some traction, the
ATV will resist turning. A special turning
technique must be used to allow the ATV to
make turns quickly and easily. It is essential that
this skill be learned first at low speed.

HOWTO AVOIDTHE HAZARD

Always follow proper procedures for turning as described in this Owner's Manual.

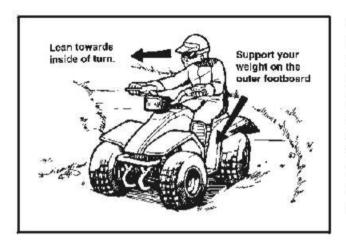
Practice turning at low speeds before attempting to turn atfasterspeeds. Do not turn at speeds too fast for your skills or the conditions.

# **⚠ WARNING**

POTENTIAL HAZARD Turning improperly

WHAT CAN HAPPEN
ATV could go out of control, causing a collision or overturn.

As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.



This procedure should be practiced at slow speed many times in a large off-road area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat.

Once you have learned this technique you should be able to perform it at higher speeds or intighter curves.

Improper riding procedures such as abrupt throttle changes, ortoo much speed for the sharpness of the turn may cause the ATV to tip. If may also be necessary to the outside of the turn to avoid tipping over.

Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

#### CLIMBINGUPHILL

Use properriding techniques to avoid vehicle overturns on hills. Be sure that you can maneuver your ATV well on flat ground before attempting any incline and then practice riding first on gentle slopes. Try more difficult climbs only after you have developed your skill. In all cases avoid inclines with slippery or loose surfaces, or obstacles that might cause you to lose control.



#### **POTENTIAL HAZARD**

Operating on excessively steep hills.

# WHAT CAN HAPPEN

The vehicle can overturn more easily on extremely steep hills than on level surfaces or small hills.

#### HOWTO AVOID THE HAZARD

Ne ver operate the ATV on hills too steep for the ATV or for your abilities.

Practice on smaller hills before attempting large hills.

It is important when climbing a hill to make sure that tour weight is transferred forward on the ATV. This can be accomplished by leaning forward and, steeper inclines, standing on the footboards and leaning forward over the handlebars.

# **⚠ WARNING**

POTENTIA LHAZARD
Climbing hills improperly

WHAT CAN HAPPEN
Could cause loss of control or cause the
ATV to overturn.

#### HOW TO AVOID THE HAZARD

Alwaysfollow proper procedures for climbing hills as described in this Owner's Manual.

Alwayscheck the terrain carefully before you start up any hill.

Never clim b hills with excessively slippery or loose surfaces.

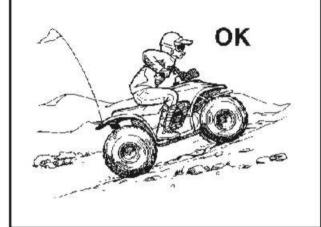
Shift your weight forward.

Never open the throttle suddenly.

The ATV could flip overbackwards.

Never go over the top of any hill at high speed.

An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



If you are climbing a hill and you find that you have not properly judged your ability to make it to the top, you should turn the ATV around while you still have forward motion (provided you have the room to do so) and go down the hill.

# **↑** WARNING

#### POTENTIALHAZARD

Improperly crossing hills or turning on hills

#### WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overturn.

## HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any hill.

Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:
Always follow proper procedures as
described in the Owner's Manual.
Avoid hills with excessively slippery or

Avoid hills with excessively slippery or loose surfaces.

Shift your weight to the up hill side of the ATV.



If your ATV has stalled or stopped and you believe you can continue up the hill, restart carefully to make sure you do not lift the front wheels which could cause you to lose control. If you are unable to continue up the hill, dismount the ATV on the uphill side. Physically turn the ATV around and then descend the hill.

If you start to roll backwards, DO NOT use the rear brake to stop. The ATV could easily tip over backwards. Instead, dismount the ATV immediately on the uphill side.

# **⚠ WARNING**

#### POTENTIALHAZARD

Stalling, rolling backwards or improperly dismounting while climbing a hill.

WHAT CANHAPPEN
Could result in ATV overturning.

HOW TO AVOID THE HAZARD

Maintain steady speed when climbing a hill.

If you lose all forward speed:

Keepweight uphill.

Applythe brakes.

Lock parking brake, after you are stopped.

If you be gin rolling backwards:

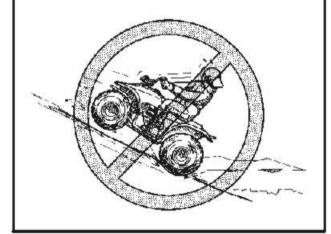
Keepweight uphill.

Ne ver apply the rear brake while rolling backwards.

Applythe front brake.

When fully stopped, applyrear brake as well, and then lock parking brake.

Dismount on uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in the Owner's Manual.



#### RIDING DOWNHILL

When riding your ATV downhill, shift your weight as far to the rear and uphill side of the ATV as possible. Move back on the seat and sit with your arms straight. Improper braking may cause a loss of traction.

Use caution while descending a hill with loose or slipper ysurfaces. Braking ability and traction may be adversely affected by these surfaces. Improper braking may also cause a loss of traction. Whenever possible, ride your ATV straight downhill. Avoid sharp angles which could allow the ATV to tip or roll over. Carefully choose your path and ride no faster than you will be able to react to obstacles which may appear.



# POTENTIAL HAZARD Going down a hill improperly.

# WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overtum.

#### HOW TO AVOID THE HAZARD

Always follow proper procedures for going down hills as described in this Owner's Manual. Note: a special technique is required when braking as you go down a hill.

Always check the terrain carefully before you start down any hill.

Shift your weight backward.

Never go down a hill at high speed.

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



#### CROSSING A SLOPE

Traversing a sloping surface on your ATV requires you to properly position your weight to maintain proper balance. Be sure that you have learned the basic riding skills on flat ground before attempting to cross a sloping surface. Avoid slopes with slippery surfaces or rough terrain that may upset your balance.

As you travel across a slope, lean your body in the up hill direction. It may be necessary to correct the steering when riding on loose surfaces by pointing the front wheels slightly uphill. When riding on slopes be sure not to make sharp turns either up or down hill.

If your ATV does begin to tip over, gradually steer in the downhill direction if there are no obstacles in your path. As you regain proper balance, gradually steer again in the direction you wish to travel.

# **⚠ WARNING**

# **POTENTIAL HAZARD**

Improperly crossing hills or turning on hills.

# WHAT CAN HAPPEN

Could cause loss of control or cause the ATV to overtum.

#### HOW TO AVOID THE HAZARD

Never attempt to turn the ATV around on any hill until you have mastered the turning technique as described in the Owner's Manual on level ground. Be very careful when turning on any hill. Avoid crossing the side of a steep hill if possible.

When crossing the side of a hill:
Always follow proper procedures as
described in the Owner's Manual.
Avoid hills with excessively slippery or
loose surfaces.



#### CROSSING THROUGH SHALLOW WATER

The ATV can be used to cross slow moving, shallow water of up to a maximum of 20 cm (7.9 inches) in depth. Before entering the water, choose your path carefully. Enter where there is no sharp drop off, and avoid rocks or other obstacles which may be slippery or upset the ATV. Drive slowly and carefully.

# 

## **POTENTIA LHAZARD**

Operating this ATV through deep or fast flowing water.

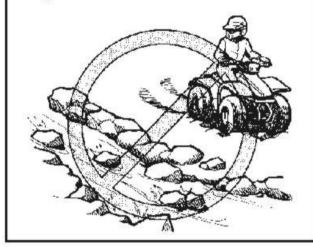
#### WHAT CAN HAPPEN

Tires may float, causing loss of traction and loss of control, which could lead to an accident.

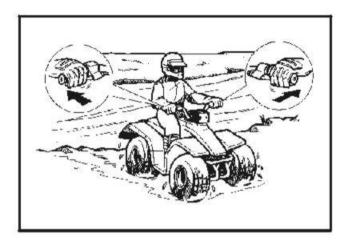
#### HOW TO AVOID THE HAZARD

Never operate this ATV in fast flowing water or in water deeperthan that specified in your Owner's Manual.

Rememberthat wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them several times to let friction dry out the linings.



Test your brakes after leaving the water. Do not continue to ride your ATV without verifying that you have regained proper braking ability.



#### RIDING OVER ROUGH TERRAIN

Riding over rough terrain should be done with caution. Look out for obstacles which could cause damage to the ATV or could lead to an upset or accident. Be sure to keep your feet firmly mounted on the footboards at all time. Avoid jumping the ATV as loss of control and damage to the ATV may result.



#### POTENTIALHAZARD

Improperly operating over obstacles.

## WHAT CAN HAPPEN

Could cause loss of control or a collision.
Could cause the ATV to overturn.

# HOW TO AVOID THE HAZARD

Before operating in a new area, check for obstacles.

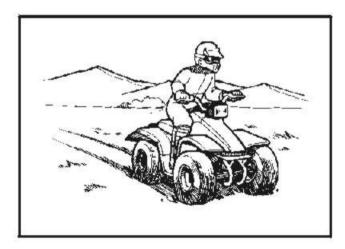
Never attempt to ride over large obstacles, such as large rocks or fallen trees. When you go over obstacles, always follow proper procedures as described in the Owner's Manual.

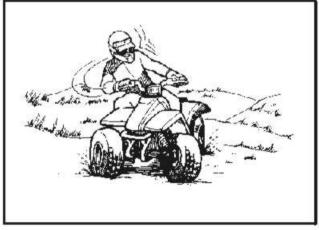
#### SLIDING AND SKIDDING

Care should be used when riding on loose or slippery surfaces since the ATV may slide. If unexpected and uncorrected, sliding could lead to an accident.

To reduce the tendency for the front wheels to slide in loose or slippery conditions, positioning your weight over the front wheels will sometimes help.

If the rear wheels of your ATV start to slide sideways, control can usually be regained (if there is room to do so) by steering in the direction of the slide. Applying the brakes or accelerating is not recommended until you have corrected the slide.





With practice, over a period of time, skill at controlled sliding can be developed. The terrain should be chosen carefully before attempting such maneuvers, since both stability and control are reduced. Bear inmindthat sliding maneuvers should always be avoided on extremely slippery surfaces such as ice, since all control may be lost.

# **⚠ WARNING**

# POTENTIAL HAZARD Skidding or sliding improperly.

#### WHAT CANHAPPEN

You may lose control of this ATV. You may also regain traction unexpectedly, which may cause the ATV to overturn.

## HOWTO AVOID THE HAZARD

Learn to safely control skidding or sliding by practicing at low speeds and on level, smooth terrain.

On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.

#### WHAT TO DO IF

This section is designed to be a reference guide only. Be sure to read each section on riding techniques completely.

#### WHAT TO DO ....

If your ATV doesn't turn when you want it to:
Bring the ATV to a stop and practice the turning maneuvers again. Be sure you are putting your weight on the footboard to the outside of the turn. Position your weight over the front wheels for better control. (See pages 63~64.)

If your ATV begins to tip while turning: Lean more into the turn to regain balance. If necessary, gradually let off the throttle and/or steer to the outside of the turn. (See pages 63~64.) If your ATV starts to slide sideways: Steer in the direction of the slide if you have the room.

Applying the brakes or accelerating is not recommended until you have corrected the slide. (See pages 77~78.)

If your ATV can't make it up a hill you are trying to climb:

Tum the ATV around if you still have forward speed. If not, stop, dismount on the uphill side of the ATV and physically turn the ATV around. If the ATV starts to slip backwards DO NOT USE THE REAR BRAKE - the ATV may tip over on top of you. Dismount the ATV on the uphill side. (See pages 65~69.)

Ifyour ATV is traversing a sloping surface: Be sure to ride with your weight positioned toward sthe uphill side of the ATV to maintain proper balance. If the ATV starts to tip, steer down the hill (if there are no obstacles in your way) to regain balance. If you discover that the ATV is going to tip over, dismount on the uphill side. (See pages 72~73)

Ifyour ATV encounters shallow water:
Ride slowly and carefully through slow moving water, watching for obstades. Be sure to let water drain from the ATV and CHECK YOUR BRAKES FOR PROPER OPER ATION when you come out of the water. Do not continue to ride your ATV until you have regained adequate braking ability. (See pages 74~75.)

# **⚠ WARNING**

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

# PERIODIC MAINTENANCE AND ADJUSTMENT

Periodic inspection, adjustment and lubrication will keep your machine in the safest and most efficient condition possible. Safety is an obligation of the machine owner. The most important points of machine inspection, adjustment and lubrication are explained on the following pages.

# 

#### 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.

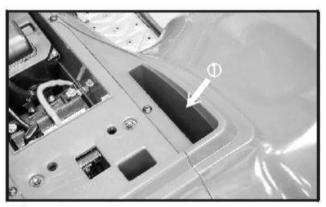
#### HOW TO AVOID THE HAZARD

Turn offthe engine when performing maintenance unless otherwise specified.

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

## Owner's manual and tool kit

You are recommended to put this owner's manual and low-pressure tire gauge in the vinyl bag and always carry them along with the owner's to olkit under the seat.



1. Owner's manual

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing your own preventive maintenance and minor repairs. The tools provided in the Owner's tool kit are sufficient for this purpose, except that a torque wrench is also necessary to properly tighten nuts and bolts.

# NOTE:

If you do nothave a torque wrench available during a service operation requiring one, take your machine to a KYMCO dealer to check the torque settings and adjust the mas necessary.

# **⚠ WARNING**

# POTENTIAL HAZARD

Operating this ATV with improper modifications.

# WHATCANHAPPEN

Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situation could lead to an accident.

# HOWTO AVOID THE HAZARD

Ne ver modify this ATV through improper installation or use of accessories. All parts and accessories added to this vehicle should be genuine KYMCO or equivalent components designed for use on this ATV and should be installed and used according to instructions. If you have questions, consult an authorize d KYMCO dealer.

# PERIODIC MAINTENANCE/LUBRICATION

ITEM	ROUTINE	INITIAL			EVERY			
		mo nth	months	6 months	6 months	year		
Valves*	Check valve clearance.     Adjust if necessary.	0		0	0	0		
Spark plug	Check cond ition.     Adjust gap and clean.     Replace if n ecessary.	0	0	0	0	0		
Air filter ele ment (for e ngine and V belt compartment)	Clean.     Replace if n ecessary.	Every 20~40 hours (More often in wet ordusty areas.)						
Carb uretor*	Check idle speed/starter operation.     Adjust if necessary.		0	0	0	0		
Cylin der he ad cov er breather system*	Check breatherhose for cracks or damage.     Replace if n ecessary.			0	0	0		
Exhaust system*	Check leaka ge.     Retighten if necessary.     Replace gasket if necessary.			0	0	0		
Spark arres ter	- Clean.			0	0	$\circ$		
Fuel line*	Check fuel hose for cracks or damage.     Replace if n ecessary.			0	0	0		
Engine oil	• Replace (Warmen gine be fore draining).	0		0	0	$\circ$		
Oils trainer*	Clean ,     Replace if n ecessary.	0		0		0		
Drive chain	Check and a djust slack/alignment/clean/lube.	0	0	0	0	0		
Trans missi on oil	Check oil lev el/oil leakage .     Repla ce every 12 m onths.	0				0		

ITEM	ROUTINE	INITIAL			EVERY	
		mo nth	months	6 months	6 months	year
Brak e*	Check valve clearance.     Adjust if necessary.	0		0	0	0
V-belt*	Check operation.     Replace if d amage or excessive wear.	0	0	0	0	0
Wheels*	Check balan ce/dam age/ru nout.     Replace if n ecessary.					
Wheel bearings*	Check bearing assembly for loos eness/damage.     Replace if damaged.		0	0	0	0
Steering system*	Check operation.     Replace if d amage d.			0	0	0
	Check toe-in.     Adjust if necessary.			0		0
K nuckle shafts/ S teering shaft*	• Lubri cate ev ery 6 m onths.			0	0	0
Fittings and Fasteners*	Check all chassis fittings and fasteners.     Correct if necessary.			0	0	0
Battery*	Check specific gravity.     Check breather hose for proper operation.     Correct if necessary.					

<sup>\* :</sup> It is recommended that the seitem's be serviced by a KYMCO dealer.



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

<sup>\*\* :</sup> Lithium soap base grease.

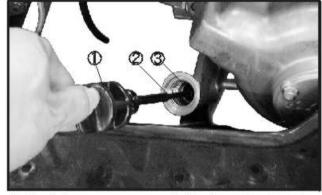
# Engineoil

- 1. Engine oil level measurement
  - A. Place the machine on a level place.
  - B. Warm up the engine for several minutes and stop it.
  - C. Remove the dipstick and wipe it off with a clean rag. Insert the dipstick in the filler hole without screwing it in.

# NOTE:

Wait a few minutes until the oil level settles before checking.

- D. Remove the dipstick and inspect the oil level.
- E. The oil level should be between the



1. Dipstick

2. Maximum level mark

3. Minimum level mark

# **CAUTION:**

Be sure no for eign material enters the crankcase.

- 2. Engine oil replacement and oil filter cleaning
  - A. Place the machine on a level place.
  - B. Warm up the engine for several minutes and stop it.

D. Remove the dipstick and drain plug to drain the oil.



1. Drain plug

# CAUTION:

When removing the drain plug, the compression spring, oil strainer and O-ring will fall out. Take care not to lose these parts.

- E. Clean the oil strainer with solvent.
- F. Inspect the O-ring and replace if damaged.
- G. Reinstall the O-ring, oil strainer, compression spring and drain plug. Tighten the drain plug to specification.

# **CAUTION:**

Before reinstalling the drain plug, be sure to install the O-ring, compression spring and oils trainer.

Tightening torque:
Drain plug (engine):
32 Nm(3.2m-kg, 23 ft-lb)

H. Fill the engine with oil and install the dipstick.

Recommendedoil: see page 119

Oil quantity:

Periodic oil change

0.9 L (0.79 Imp qt, 0.95 USqt)

Total amount:

1.0 L (0.85 Imp qt, 1.05 USqt)

# **CAUTION:**

Be sure no foreign material enters the crankcase.

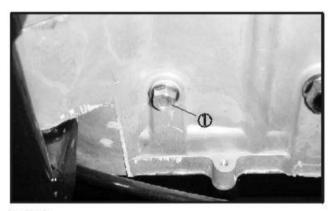
Warm up the engine for several minutes at idle speed. Check for oilleakage while warming up.

# CAUTION:

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

#### Transmission oil

- 1. Transmission oil measurement
  - A. Place the machine on alevel place:
  - B. Remove the screw and checkthe oillevel: It should be up to the brim of the hole. If the level is low, remove the oil filler bolt and add oilto raise it to the proper level.



1. Bolt



#### 1. Oil filler bolt

C. Reinstall the screw and oil filler bolt and tightento specification.

Tighteningtorque:

Screw:

16 Nm (1.6 m-kg, 11 ft-lb)

Oil fillerbolt:

23 Nm (2.3 m-kg, 17 ft-lb)

- 2. Transmission oil replacement
  - A. Placethe machine on alevel place.
  - B. Place a container under the engine.

C. Remove the oil filler bolt and drain plug to drain the oil



1. Drain plug

D. Reinstall the drainplug and tighten to specification.

Tightening torque Drain plug:

23 Nm (2.3 m-kg, 17 ft-lb)

E. Fill the engine with oil and install the oil fillerbolt

Recommended oil: See page 125

Oil quantity:

Periodic oil change

# **CAUTION:**

Be sure no foreign material enters the crank case.

- F. Start the engine andwarm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.
- G. Check the oil level.

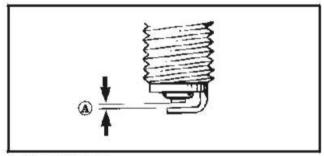
# Spark plug inspection

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

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

Standard spark plug: CR8E Before installing the spark plug, measure the electrode gap with a feeler gauge and adjust to specification.

Spark plug gap: 0.6~0.7 mm (0.024~0.028 in)



A. Spark plug gap

When installing the spark plug, always clean the gasket surface and use a new gasket. Wipe off anygrime from the threads and tighten to the specified torque.

Tightening torque: Spark plug: 12.5 Nm (1.25 m.kg, 9.1 ft.lb)

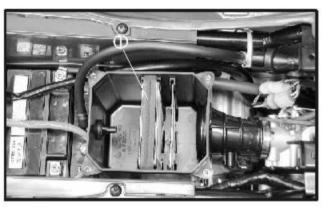
# Airfilter cleaning

- A. Remove the seat.
- B. Remove the air filter case cover.



- 1. Airfilter case cover
- 2. Clamp

C. Remove the air filter element, and separate it from the box.



1. Air filter element

D. Washthe element gently but thoroughly in solvent.

# **⚠ WARNING**

#### POTENTIAL HAZARD

Using lowflash points olvents orgasoline to clean the airfilter element.

#### WHAT CAN HAPPEN

Lowflash point solvents or gasoline can catch fire or explode.

#### HOW TO AVOID THE HAZARD

Use parts cleaning solvent to clean the air filter element.

F. Squeeze the excess solvent out of the filter and let it dry.

# CAUTION:

Do not twist the filter element when squeezing it.

- G. In spect the element. If damaged, replace it.
- H. Apply KYMCO foam air filteroil orother quality foam air filter oil to the element. If fo am air filteroil is not available, motor oil may be used.

# NOTE:-

The element should be wet but not dripping.

- Reinstall the element to the element guide.
- J. Reinstall the element assembly and parts removed for access.

# I dle speed a djustment

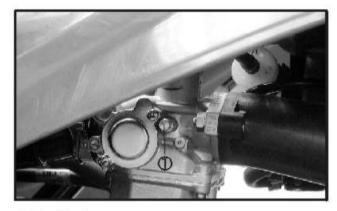
# NOTE:-

A diagnostic tachometer must be used for this procedure.

- Start the engine and warm it up for a few minutes at approximately 1,000 to 2,000 r/min. Occasionally rev the engine to 4,000 to 5,000 r/min. The engine is warm when it quickly responds to the throttle.
- Connect the tachometer and set the idle to the specified idling speed by adjusting the throttle stop screw. Turn the screw in to increase engine speed, and out to decrease engine speed.

Specified idlespeed:

1,650~1,750 r/min



1. Throttle stop screw

# Valve clearance adjustment

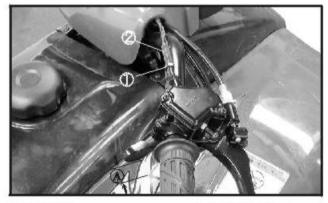
The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be left to a professional KYMCO service technician.

# Throttle lever adjustment

# NOTE:

Adjust the engine idling speed before adjusting the throttle lever freeplay.

- 1. Loosen the locknut.
- 2. Turn the adjusting bolt until the throttle lever free play is 1~4 mm (0.04~0.16 in)
- 3. Tighten the locknut.



1. Locknut A. 1~4 mm (0.04~0.16 in)

2. Adjusting bolt

# Front and rear brake shoe inspection

A wear indicator is provided on each brake. The indicators allows checking of brake shoe wear without disassembling the brake. Apply the brake and check the position of the indicator. If the indicator reaches the wear limit line, ask a KYMCO dealer to replace the shoes as a set.



1. Wear limit

2. Wear indicator



Wear limit

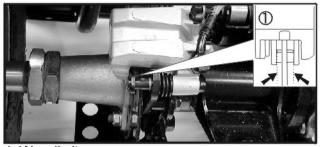
2. Wear indicator

## Brake fluid inspection(Disk brake)

Add recommended brake fluid DOT4 into the tank until the fluid level reaches the upper limit if the fluid level reaches the lower limit or replace every year and do not mix brake fluid of different brands.



1. Fluid lever



1. Wear limit

96

# Front brake lever free play adjustment

## NOTE: -

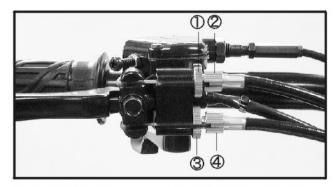
Before adjusting the brake, inspect the front brake shoes.

The front brake lever free play should be adjusted to 10~20 mm (0.4~0.8 in) at the brake lever pivot. If the free play is incorrect, adjust as follows:



A. Free play 10~20 mm (0.4~0.8 in)

1. Loosen the upper locknut and fully turn in the adjusting bolt.



1. Upper locknut

2. Upper adjusting bolt

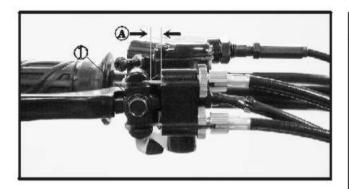
Lower locknut

- 4. Lower adjusting bolt
- 2. Loosen the lower locknut.
- Turn the lower adjusting bolt until specified free play is obtained.

Specified free play:

10~20 mm (0.4~0.8 in)

- 4. Tighten the lower locknut.
- While applying the front brake, turn out the upper adjusting bolt until the upper and lower cable lengths are equal. The cable joint will become vertical.



1. Cable joint

A Cable joint

6. Tighten the upper locknut.

# **⚠ WARNING**

#### POTENTIAL HAZARD

Operating with improperly serviced or adjusted brakes.

## WHAT CAN HAPPEN

You could lose braking ability, which could lead to a naccident.

#### HOWTO AVOID THE HAZARD

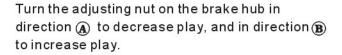
### After servicing:

- Make sure the brakes operate smoothly and that the free play is correct.
- · Make sure the brakes do not drag.

Replacement of brake components requires professional knowledge. These procedures should be performed by KYMCO dealer.

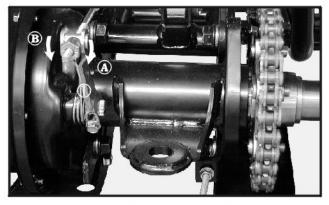
# Rear brake adjustment(Drum brake)

Brake lever free play should be  $10\sim20 \text{ mm}$   $(0.4\sim0.8 \text{ in})$ 





A. 10~20 mm (0.4~0.8 in)



1. Adjusting nut A. Decrease play B. Increase play

# **⚠ WARNING**

#### POTENTIALHAZARD

Operating with improperly serviced or adjusted brakes.

#### WHATCANHAPPEN

You could lose braking ability, which could lead to an accident.

#### HOW TO AVOID THE HAZARD

After servicing:

Make sure the brakes operate smoothly and that the free play is correct.

Make sure the brakes do not drag.

Replacement of brake components requires professional knowledge.

These procedures should be performed by a KYMCO dealer.

#### Drive chain slack check

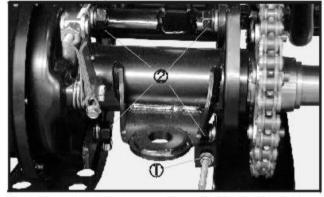
Inspect the drive chain while all tires are touching the ground. Check the slack at the position shown in the figure. The normal vertical deflection is approximately 30 mm (1.18 in). If the deflection exceeds 30 mm (1.18 in), adjust the chain slack.



A. 30 mm (1.18 in)

#### Drive chain slack adjustment

1. Loosen the hubstopperbolt locknut and then the hubstopperbolt.

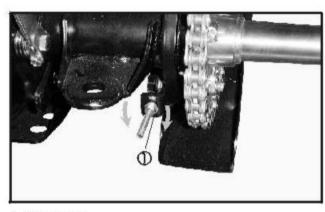


1. Hub stopper nut

2. Axle holding bolt x 4

2. Loosen the upper and low eraxle holding bolts.

3. Turn the adjusting nut.



1. Adjust nut

# **CAUTION:**

Too little of chain slack will overload the engine and other important parts. Keep the slack within the specified limit.

4. After adjusting, be sure to tighten the axle holding bolts.

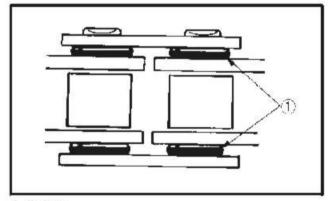
Tightening torque:

Axle holding bolts (upper): 85 Nm (8.5m-kg,61 ft-lb) Axle holding bolts (lower): 60 Nm (6.0m-kg,43 ft-lb)

5. Fingertighten the hub stopperbolt and tighten the hub stopper bolt locknut.

## Drive chain cleaning and lubrication

The drive chain is equipped with rubber O-rings between the chain plates. Steam cleaning, high-pressure washes, and certain solvents can damage these O-rings. Use only kerosene to dean the drive chain. Wipe it dry, and thoroughly lubricate it with SAE 30~50 motor oil. Do not use any other lubricants on the drive chain. They may contain solvents that could damage the O-rings.



1. O-rings

## Draining the V-belt compartment

If water leaks into V-belt compartment such as when the machine is drive in water, remove the drain screw on the bottom of compartment and drain the water. Be sure to drive slowly until the V-belt becomes dry. If slipping is noticed, ask a KYMCO dealer to inspect.



1. Drain bolt

#### Cable inspection and lubrication

# **⚠ WARNING**

POTENTIALHAZARD

Damage d control cables.

WHATCANHAPPEN

Corrosion can result when the outer covering of control cables becomes damaged.

Cables can also become frayed or kinked.

Operation of controls could be restricted, which could cause an accident or injury.

HOW TO AVOID THE HAZARD Inspect cables frequently. Replace damaged cables.

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

Re∞mmended lubricant:

KYM CO chain and cable lube or SAE 10W40 motor oil

#### Brakeleverlubrication

Lubricate the pivoting parts of the brake levers.

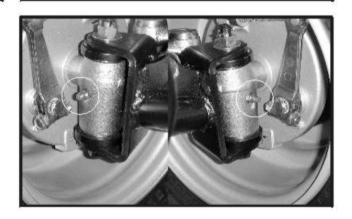
Recommended lubricant:

Lithium-soap-based grease (All-purpose grease)

# Knuckle shaft, lower arms and steering shaft lubrication

Lubricate the pivot points using agrease gun.

Recommendedlubricant: Lithium-soap-based grease



#### Wheel removal

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



1. Safe nut

#### Wheel installation

When installing the wheel, reverse the removal procedure. Pay attention to the following.

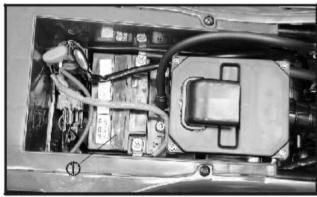
Wheel nut torque:

Front: 55 Nm (5.5 m-kg, 40 ft-lb)

Rear: 55 Nm (5.5 m-kg, 40 ft-lb)

## Battery

- This model adopts the battery which needs no refilling of distilled water.
- When cleaning the terminal terminals, remove the screws attaching the battery cover on the floor board and then open the battery cover.
- When battery terminals are corroded, take out the battery for cleaning.
- After deaning, apply a thin coat of grease or Vaseline to battery terminals and then install the battery



1. Battery

## CAUTION:

- Never open the dosed-type battery electrolyte cap.
- If the motorcycle will not be used for a long time, the battery will discharge electricity by itself.
   Remove the battery and put it in a cool place after it is fully charged to prevent electricity leakage
- If the motorcycle will not be used for a long time, remove the negative (-) terminal.
- Do not smoke or allow flames or sparks near the battery while removing and installing it.
- Turn off the ignition switch before removal or installation. The negative (-) terminal shall be removed first and the positive (+) terminal shall be installed first.
- Tighten the loose terminal nuts securely.

# **⚠ WARNING**

#### **POTENTIAL HAZARD**

Failure to handle batteries or battery electrolyte carefully.

#### WHAT CAN HAPPEN

You could be poisoned. You could be severely burned by the sulfuric acidin battery electrolyte.

Batteries produce explosive gases.

HOW TO AVOID THE HAZARD

Avoid contact with skin, eyes or clothing.

Always shield eyes when working near batteries. Keep out of reach of children.

Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beatenegg or vegetable oil. Get prompt medical attention.

EYES: Flush with for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using a closed space.

## Fuse replacement

- The fuse case is located on the seat box of the machine.
- If the fuse is blown, turn off the main switch and install a new fuse of the specified amperage. Then turn on the switches, if the fuse immediately blows again, consult a KYMCO dealer.



1 Main fuse

Specified fuse: 7A

# **⚠ WARNING**

POTENTIAL HAZARD Using an improperfuse.

#### WHAT CAN HAPPEN

An improperfuse can cause damage to the electrical system which could lead to a fire.

#### HOWTO AVOID THE HAZARD

Always use a fuse of the specified rating. Never use a material in place of the proper fuse.

## CAUTION:

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

## Replacing the headlight bulb

If the headlight bulb burns out, replace the bulb as follows:

1. Remove the screws holding the headlight unit assembly to the headlight body.



2. Remove the bulb holder cover, remove the bulb holder screw and the defective bulb.



## **⚠ WARNING**

#### POTENTIAL HAZARD

The headlight bulb is hot when it is on and immediately after it is turned off.

#### WHAT CAN HAPPEN

You can be burned, or a fire could start if the bulb to uches something flammable.

HOW TO AVOID THE HAZARD

Wait for the bulb to cool before to uching or removing it.

- Put a new bulb into position and secure it in place with the bulb holder.
- Install the bulb holder cover.

## **CAUTION:**

Make sure the bulb holder cover is securely fitted over the bulb holder and seated against the reflector.

Install the headlight unit assembly. Adjust the headlight beam if necessary.

## Headlight beam adjustment

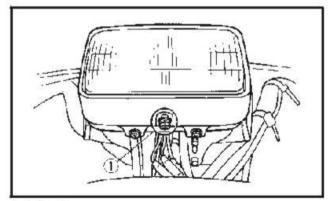
## CAUTION:

It is advisable to have a KYMCO dealer make this adjustment.

## Vertical adjustment:

To raise the beam, loosen the adjusting screw and pull the headlight assembly toward you.

To lower the beam, push it away from you. After adjusting, be sure to tighten the screw.



1. Adjusting screw

#### Troubleshooting

Although KYMCO machines receive a rigid inspection before shipment from the factory, trouble may occur during operation. Any systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks. If your machine requires any repair, take it to a KYMCO dealer.

The skilled technicians at a KYMCO dealership have the tools, experience, and know-how to properly service your machine. Imitation parts may look like KYMCO parts, but they are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.

# **⚠ WARNING**

#### POTENTIALHAZARD

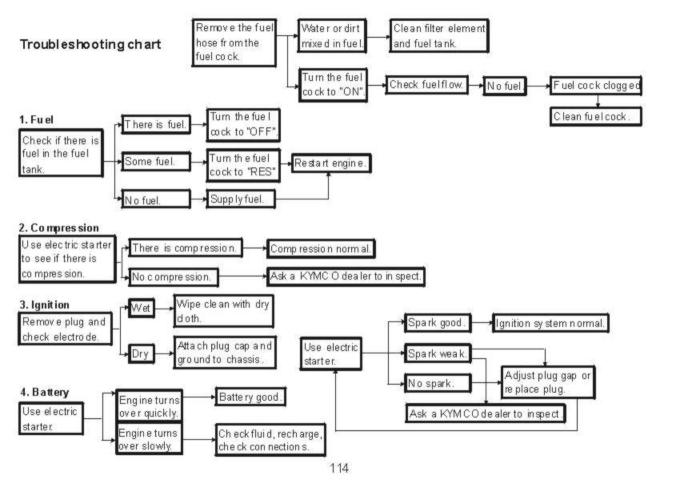
Checking the fuel system while smoking or ne ar an open flame.

## WHATCANHAPPEN

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

#### HOW TO AVOID THE HAZARD

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



## **CLEANING AND STORAGE**

#### A. CLEANING

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

- 1. Before cleaning the machine:
  - A. Block off the end of the exhaust pipe to prevent waterentry. A plastic bag and strong rubberband may be used.
  - B. Make sure the spark plug and all filler caps are properly installed.
- If the engine case is excessively greasy, apply degreaser with apaint brush. Do not apply degreaser to the chain, sprockets or wheel axles.
- 3. Rinse the dirt and de greas eroff with a garden hose. Use only enough pressure to do the job.

## CAUTION:

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

- 4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
- Rinse the machine off immediately with clean water and dry all surfaces with a chamois, dean towel or soft absorbent cloth.
- 6. Dry the chain and lubricate it to prevent rust.

- Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
- 8. Automotive type wax may be applied to all painted and chrome plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may marthe paint or protective finish.

When finished, start the engine and let it idle for several minutes.

# **⚠ WARNING**

#### POTENTIAL HAZARD

Operation with wetbrakes after washing.

#### WHAT CAN HAPPEN

Wet brakes may have reduced stopping ability, increasing the chance of an accident.

## HOW TO AVOID THE HAZARD

Test the brakes after washing. A pply the brakes several times at slow speeds to let friction dry out the linings.

#### B. STORAGE

Long term storage (60 days or more) of your machine will require some preventive procedures to guard against deterioration. After thoroughly cleaning the machine, prepare for storage as follows:

 Fill the fuel tankwith fresh fuel and add the specified amount of Fuel Stabilizer and Conditioner or an equivalent product.

## Specified amount:

1 oz ofstabilizer to each gallon of fuel (Or 7.5 cc ofstabilizer to each liter of fuel)

## NOTE:-

Use of fuel stabilizerand conditioner eliminates the need to drain the fuel system. Consulta KYMCO dealer if the fuel system needs to be drained instead.

 Remove the spark plug, pour about one tablespoon of SAE 10W40 motor oil in the spark plug hole and reinstall the spark plug. Ground the spark plug wire and turn the engine over several times to coat the cylinder wall with oil.

- 3. Clean the drive chain thoroughly and lubricate it. (See page 103.)
- 4. Lubricate all control cables.
- Block up the frame to raise all wheels off the ground.
- Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
- If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.
- Remove the battery and charge it. Store it in a dry place and recharge it once a month.
   Do not store the battery in an excessively warm or cold place (less than 0 C (30°F) or more than 30 C (90°F)

## NOTE:

Make any necessary repairs before storing the machine.

# **SPECIFICATIONS**

Model	MX'er150	MX'er125	
Dimension:			
Overall length	1,685 mm	(66.3 in)	
O∨erall width	980 mm	(38.6 in)	
O∨erall height	990 mm (38.9 in)		
Seat height	700 mm (27.5 in)		
Wheel base	1,120 mm (44.1in)		
Minimum ground clearance	130 mm (5.1 in)		
Minimum turning radius	2,500 mm (98.4 in)		
Basic weight:			
With oil and full fuel tank	162 kg (356.4 lbs)		
Engine:	Engine:		
Туре	Air cooled, 4-stroke, OHC		
Cylinder arrangement:	Single cylinder		
Displacement	149.4cc	124 cc	
Bore x stroke	62 x 49.5 mm	56.5 x 49.5 mm	
	(2.44 x 1.95 in)	(2.22 x 1.95 in)	
Compression ratio	9.7 : 1	9.2 : 1	
Starting system	Electric starter		
Lubrication system:	Oil pump		

# Model MX'er150 MX'er125 Engine oil/transmission oil: Type 40°C Recommended engine oil/transmission API Service SE, SF, SG type or higher Oil classification: CAUTION: Be sure to use motor oils that do not contain anti-friction modifiers. Passenger car motor oils (often labeled "Energy Conserving") contain anti-friction additives which will cause clutch and/or starter clutch slippage, resulting in reduced component life and poor engine performance. Quantity Engine oil: 0.9 L (0.79 Imp qt, 0.95 US qt) Periodic oil change 1.0 L (0.87 Imp qt, 1.05 US qt) Total amount 0.2 L (0.17 Imp qt, 0.21 US qt) Transmission oil change:

Model	MX'er150	MX'er125
Air filter: For engine	Wet type element	
Fuel: Type Tank capacity Reserve amount	UNLEADED FUEL 8.1 L (7.12 lmp gal, 8.55 US gal) 1.0 L (0.88 lmp gal, 1.05 US gal)	
Carburetor: Type	PD	
Spark plug Type Gap	CR8E 0.6~0.7 mm (0.024~0.028 in)	
Clutch: Type	Dry, centrifugal automatic	
Bulb voltage, wattage*quantity: Headlight Taillight Indicator light: Neutral Reverse	12V, 35W/35W x 1 12V, 5W x 1 12V, 3.4W x 1 12V, 3.4W x 1	

Model	MX'er150	MX'er125
Brake: Front brake type Operation Rear brake type Operation	Drum brake Right hand operation Drum brake/Disk brake Left hand operation	
Suspension: Front Rear	Swing axle Swing arm	
Shock absorber: Front Rear	Coil spring/Oil damper Coil spring/Oil damper	
Electrical: Ignition system Generator system Battery type	C.D.I. C.D.I. Magneto 12V, 8AH	
Tire: Type Size: Front Rear	Tubeless AT20*7-8 AT22*10-8	

#### NOISE REGULATION

#### TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (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 or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

"AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THEACTS LISTED BELOW".

These acts include tampering with the following systems; i.e., Modification, removal, etc.

Exhaust system	Muffler Exhaustpipe Silencer
Intake system	Aircleaner case Aircleaner element Intake duct

## MAINTENANCE RECORD

Copies of work orders and/or receipts for parts you purchase and install will be required to document maintenance done in accordance with the warranty. The chart below is printed only as a reminder to you that the maintenance work is required. It is not acceptable proof of maintenance work.

MAINTENACE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1Month				
3M onths				
6M onths				
12Months				
18Months				
24 Months				
30 Months				
36Months				
42Months				
48Months				
54 Months				
60 Months				



# **WARNING**

## Improper ATV use can result in SEVERE INJURY or DEATH.



ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR



NEVER USE ON PUBLIC ROADS



NEVER CARRY PASSENGERS



NEVER USE WITH DRUGS OR ALCOHOL

#### **NEVER** operate:

- · Without proper training or instruction.
- · At speeds too fast for your skills or the conditions.
- · On public roads-a collision can occur with another vehicle.
- · With a passenger-passengers affect balance and steering control.

#### ALWAYS:

- Use proper riding techniques to avoid vehicle overturns on hills and rough terrain and in turns.
- · Avoid paved surfaces-pavement may seriously affect handling and control.

READ OWNER'S MANUAL, FOLLOW ALL INSTRUCTIONS AND WARNINGS.