Mongoose 90 / Mongoose 90 R

ATV off road

Owner's Manual

KYMCO

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IMPORTANT NOTICES

READ THIS MANUAL CAREFULLY

Your Owner's Manual contains important information on safety, operation, and maintenance. Any one who operates this ATV should carefully read and understand the contents of this manual before riding the vehicle.
It is especially important that parents make sure their children fully understand and follow the information and procedures contained in the manual.

AGE RECOMMENDATION

This ATV is intended for use by children at least 10 years old. Never allow children under the age of 10 to operate this ATV.

RIDER TRAINING

Anyone who operates this vehicle should get proper instruction.

FOR OFF-ROAD USE ONLY

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-ROAD 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.

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NOTE TO PARENTS

Parents should read the "Important Message to Parents" beginning on page 4 and the "Parents &Beginning riders" booklet received with the ATV and then decide whether their youngster is ready to ride.

"Parents, Youngsters and ATVs" focuses on the beginning rider, and discusses how to evaluate your youngster's readiness to ride as well as showing you how to introduce your youngster to ATV riding.

Your ATV was delivered with a speed restrictor for new riders. Please refer to page 7 for more information

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SPECIAL MESSAGES

KYMCO provides many important safety messages both in this manual and on the vehicle. For your safety and the safety of others, pay special attention to all warnings preceded by this alert symbol ⚠. Failure to follow the warnings contained in this manual can result in SERIOUS INJURY or DEATH.

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

To protect your vehicle from damage, pay attention to caution to cautions.

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

Note: Gives helpful information

The Owner's Manual should be considered a permanent part of your ATV. It should remain with the vehicle at all times and stay with the ATV if it is sold.

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PREFACE

Congratulations on your purchase of the KYMCO ATV. KYMCO take pride in a worldwide reputation for quality-in research, design, production and service.

For replacement parts and accessories, we recommend genuine KYMCO products. They've been specially designed for your vehicle and manufactured to meet KYMCO's demanding standards.

This manual will provide you with a good basic understanding of the features and operation of this machine. This manual includes important safety information. It provides information about special techniques and skills necessary to ride your machine. It also includes basic maintenance and inspection procedures. If you have any questions regarding the operation or maintenance of your machine, please consult a KYMCO dealer.

We wish you many years of safe and enjoyable riding.

While reading this manual, remember:

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

All information in this publication is based on the latest product information available at the time of approval for printing. KWANG YANG MOTOR CO.,LTD reserves the right to make changes at any time without notice and without incurring any obligation.

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CONTENTS

Page

LOCATION OF THE WARNING AND SPECIFICATION LABELS.....1

SAFETY INFORMATION.....4
- IMPORTANT MESSAGE TO PARENTS.....4
  - Evaluate Riding Readiness 4
  - Always Supervise Young Riders.....7
- SPECIAL SAFETY MESSAGES..... 9

DESCRIPTION AND MACHINE IDENTIFICATION.....15
- Key identification number.. 15
- Frame and engine serial number.....16
- Model code.....16
- Parts location..... 17

Page

CONTROL FUNCTIONS..... 20
- Ignition switch..... .20
- Handlebar switches.....21
  - Engine stop switch.....21
  - Headlight switch.... 22
  - Stater button.. 22
- Kick starter 23
- Remote engine stop switch. 24
- Throttle lever... 25
- Speed limiter.... 26
- Front brake 27
- Rear brake 27
- Parking brake. 28
- Fuel tank cap 29
- Fuel valve 30
- Start (choke)..... 31
- Seat.....32
- Flag pole bracket..... 33
- Storage compartment 33

(Cont'd)

Downloaded from www.Manualslib.com manuals search engine

Page

PRE-OPERATION CHECKS.....34
Front and rear brakes.....35
Fuel 36
Engine oil and Transmission oil 38
Chain 39
Throttle lever.....39
Fittings and fasteners.....39
Lights 39
Switches 39
Tires 40
How to measure tire pressure 41
Tire wear limit 42

OPERATION.....43
Starting a cold engine.....43
Starting a warm engine.....45
Warming up.....45
Engine break-in.....45
Parking 46
Parking on a slope 47
Accessories 48

Page

Riding Your ATV.....49
GETTING TO KNOW YOUR ATV.....50
BEFORE RIDING 50
RIDER PREPARATION 50
RIDE WITH CARE AND GOOD JUDGEMENT.....51
Pre-operation checks 52
Wight limits 53
Accessories 54
No Modifications 55
SAFE RIDING RULES 56
BE CAREFUL WHERE YOU RIDE 59
FOR OFF-ROAD USE ONLY 61
Ride Only When Visibility Is Good 61
During operation 62
Exhaust system.....68
RIDING 69
BRAKING 71
TURNING YOUR ATV 73

(Cont'd)

Downloaded from www.Manualslib.com manuals search engine

Page

SLIDING AND SKIDDING.....75
CLIMBING UPHILL.....77
RIDING DOWNHILL 83
CROSSING A SLOPE 85
RIDING OVER ROUGH TERRAIN 87
CROSSING THROUGH SHALLOW WATER.....88
PARKING 89
WHAT TO DO IF 90
WHAT TO DO 90

PERIODIC MAINTENANCE AND ADJUSTMENT.....92
Tool kit.....92
PERIODIC MAINTENANCE/ LUBRICATION.....94
Engine oil.....96
Transmission oil.....100
Spark plug inspection.....103
Air filter cleaning.....104
Valve clearance adjustment.....106

Page

Idle speed adjustment.. 107
Throttle lever adjustment.....108
Front brake shoe inspection.....109
Rear brake pads inspection.....109
Front brake lever free play adjustment....110
Brake fluid inspection.....112
Drive chain slack check.....114
Drive chain slack adjustment.....114
Drive chain cleaning and Lubrication.....116
Cable inspection and lubrication.....116
Brake lever lubrication.....117
Knuckle shaft and rear fork shaft Lubrication.....117
Draining the V-belt compartment 117
Wheel removal.....118
Wheel installation.....118
Battery 119
Fuse replacement.....121
Spark arrester cleaning.....123
Troubleshooting 124
Troubleshooting chart.....125

(Cont'd)

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Page

CLEANING AND STORAGE.....126
A. Cleaning 126
B. Storage 128

SPECIFICATIONS.....130
NOISE REGULATION.....134

MAINTENANCE RECORD.....135

INDEX.....136
Mongoose 90 Reverse version.....142

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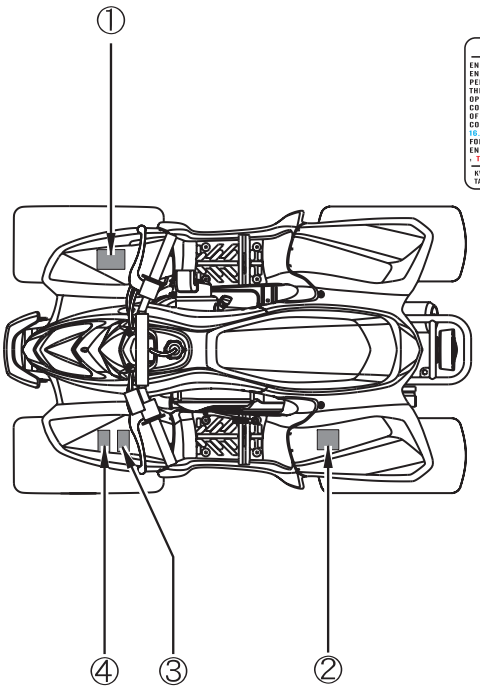
LOCATION OF THE WARNING AND SPECIFICATION LABELS



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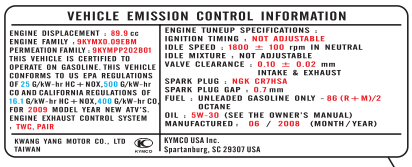
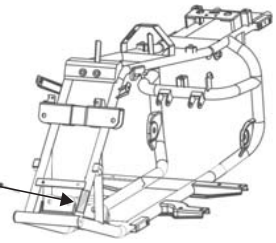

VEHICLE EMISSION CONTROL INFORMATION

ENGINE DISPLACEMENT : 89.9 cc
ENGINE FAMILY : 9KYMX0.09E9M
PERMEATION FAMILY : 9KYMPP202B01
THIS VEHICLE IS CERTIFIED TO OPERATE ON GASOLINE. THIS VEHICLE CONFORMS TO US EPA REGULATIONS OF 2.5 G/kW-hr HC+NOX, 5.00 G/kW-hr CO AND CALIFORNIA REGULATIONS OF 10.1 G/kW-hr HC+NOX, 400 G/kW-hr CO, FOR 2009 MODEL YEAR NEW ATV'S. ENGINE EXHAUST CONTROL SYSTEM : TWC, PAIR

KWANG YANG MOTOR CO., LTD
TAIWAN

ENGINE TUNEUP SPECIFICATIONS :
IGNITION TIMING : NOT ADJUSTABLE
IDLE SPEED : 1800 ± 100 rpm IN NEUTRAL
IDLE MIXTURE : NOT ADJUSTABLE
VALVE CLEARANCE : 0.10 ± 0.02 mm
INTAKE & EXHAUST
SPARK PLUG : NGK CR7HSA
SPARK PLUG GAP : 0.7 mm
FUEL : UNLEADED GASOLINE ONLY - 86 (R+M)/2 OCTANE
OIL : 5W-30 (SEE THE OWNER'S MANUAL)
MANUFACTURED : 06 / 2008 (MONTH/YEAR)

KYMCO USA Inc.
Spartanburg, SC 29307 USA



CERTIFICATE LABEL OF SVIA

KYMCO certifies that this ATV complies with the American National Standard for Four Wheel All-Terrain Vehicles, ANSI/SVIA-1-2007 Standard.

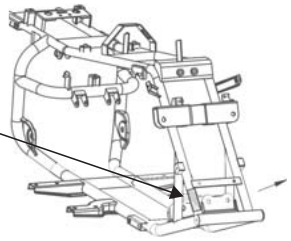
87666-PVA1-M35

For US

KYMCO certifie que ce quadricyle (V.T.T) est conforme à la norme nationale américaine ANSI/SVIA-1-2007, des véhicules tout-terrain à 4 roues.

87666-PVA1-MG5

For Canada



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WARNING INFORMATION

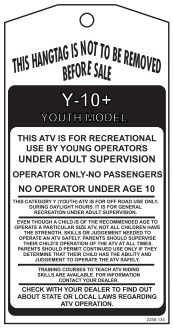
Your ATV comes with a hang tag and several labels containing important safety information. Anyone who rides the vehicle should read and understand this information before riding.

Parents of young riders should make sure their youngsters read and understand the hang tag and label information before allowing them to ride.

The labels should be considered as permanent parts of the vehicle. If a label comes off or becomes hard to read, contact your KYMCO dealer for replacements

HANG TAG_GENERAL USE

Front



Reverse side

①

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②

⚠ WARNING

Improper tire pressure or overloading can cause loss of control.
Loss of control can result in severe injury or death.

- Cold tire pressure:
  Front: **3.0** psi (**20.6** kPa)
  Rear: **3.0** psi (**20.6** kPa)
- Maximum weight capacity: **175** lbs (**79** kg)

1411-938

④

⚠ WARNING

NEVER ride as a passenger.

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

1411-809

③

⚠ WARNING

Operation of this ATV by children under the age of 10 increases the risk of severe injury or death.

Adult supervision required for children under age **16**.

NEVER permit children under age **10** to operate this ATV.

■ NOTE

ALWAYS RESPECT THE RIGHTS OF OTHERS.

Protect the environment, and comply with all applicable laws and regulations.

TREAD LIGHTLY !®
ON PUBLIC AND PRIVATE LAND

PRE-RIDE INSPECTION PROCEDURES			STARTING PROCEDURES	
T	TIRES AND WHEELS	1. Check for proper air pressure. 2. Check for cuts and gouges. 3. Make sure nuts and bolts are tight.	B	BRAKES 1. Set the PARKING BRAKE.
C	CONTROLS AND CABLE	1. Identify location of all controls. 2. Throttle should operate smoothly and snap closed. 3. Check brake operation, adjustment, and for worn pads. 4. Check shifter operation.	O	ON 2. Turn the fuel valve on. 3. Turn the ignition key on.
L	LIGHTS AND ELECTRICAL	1. Check ignition switch operation. 2. Check engine stop switch operation. 3. Check all lights.	N	NEUTRAL 4. Make sure the transmission, if equipped, is in neutral.
O	OIL AND FUEL	1. Check fuel level. 2. Check oil level . 3. Check for leaks.	E	ENGINE 5. Turn the "Emergency Stop" switch to "Run" position.
C	CHASSIS AND DRIVE TRAIN	1. Make sure all nuts and bolts are tight. 2. Make sure all debris is removed from around axle and drive chain. 3. Make sure ATV is loaded properly and not over-loaded.	C	CHOKE 6. Automatic.

1411-912

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⚠ SAFETY INFORMATION

IMPORTANT MESSAGE TO PARENTS

Your child's safety is very important to KYMCO. That's why we urge you to read this message before you let any young person ride this ATV. Off-road riding can be fun. However, an ATV is not a toy and it can be hazardous to operate. As with any youth activity involving speed and skill-such as bicycling or skateboarding-poor judgement can result in injuries and we don't want that to happen! You can help prevent accidents by making good decisions about if, when, and how your youngster rides this ATV.

Evaluate Riding Readiness

The first decision you'll need to make is whether your youngster is ready to ride. Riding readiness varies widely from one person to another, and while the minimum age recommended for this ATV is 10 years old, there are other factors that you should consider.

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Physical size and ability are important considerations. To help determine whether a youngster is big enough for this ATV, have them stand up on the footboards and grasp the handgrips. While the youngster holds this position, check that they have at least three inches (8cm) of clearance between the ATV seat and the youngster's "seat of the pants". A rider needs at least three inches (8cm) of clearance so they can stand up for balance and comfort, and to shift their body forward, backward and from side to side.

Also make sure your youngster can comfortably reach and work all the controls. For example, can they turn the handlebars all the way to the right and left? Can they easily use their feet to work the brake pedal and gearshift lever? Can they operate the throttle and brake levers while they hold onto the handgrips? If not, the youngster is not physically ready to ride this ATV.

Before you let a youngster ride an ATV, decide whether they are physically, mentally and emotionally ready to ride.

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Athletic ability is another requirement for riding a ATV. Generally speaking, your youngster should be good at riding a bicycle before they get on an ATV. Can your youngster judge speeds and distances while riding a bicycle and react with proper hand and foot actions? Anyone who does not have good coordination, balance, and agility is not ready for this ATV.

Mental and emotional maturity are also necessary for safe riding. Does your youngster think through problems and come to logical solutions? On a bicycle, does your youngster obey safe riding rules? Be honest! Young people who take unnecessary risks, make bad judgments and don't obey rules are not ready to ride this ATV.

If you decide that your youngster is ready to safely operate this ATV, make sure both of you first carefully read and understand the instructions and warnings in this Owner's Manual. Also be sure that your youngster always wears a helmet and other appropriate riding equipment when operating or sitting on the ATV. (see page 55)

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Patience And Practice

Even if a youngster takes a certified training course, it's up to you to ensure your youngster's safety. Remember, learning to ride a ATV is a gradual step-by-step process. It takes time, patience and practice.

To help you regulate your youngster's rate of learning, your ATV was delivered with an **adjustable throttle limiter.** We recommend that all beginning riders start off with the throttle limiter adjusted as delivered. The limiter may be adjusted to gradually increase maximum speed as the beginner becomes more familiar with operating the ATV. For adjustment and removal instructions, see pages 69

Always Supervise Young Riders

Supervision is another important obligation of parents. Even after youngsters have become skilled off-road riders, make sure they always have adult supervision while riding. It also helps to regularly remind young riders to follow the instructions and warnings in this manual. And remember, it's the parent's responsibility to see that the ATV is properly maintained and kept in safe operating condition.

If you choose to lend your ATV, do make sure that any riders under 16 years old will have adult supervision. Your youngster should understand that the decision to lend the ATV is yours.

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In Summay

Children differ in skills, physical abilities, and judgement. Some children may not be able to operate an ATV safely. Parents should supervise their child's use of the ATV at all times. Parents should permit continued use only if they determine that the child has the ability to operate the ATV safely.

Safe and responsible riding must be an on-going commitment - by you and your youngster. When you both put safety first, you can enjoy more peace of mind, and your youngster can enjoy many hours of safe off- road riding.

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SPECIAL SAFETY MESSAGES

AN ATV IS NOT A TOY AND 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 INJURY OR 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.
  Beginners should receive training from a certified instructor.
- Always follow the age recommendation:
  - A child under 14 years old should never operate an ATV with engine greater than 125cc.
  - A child under 16 years old should never operate an ATV with engine greater than 150cc.
  - A child under 10 years old should never operate this ATV.
- 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.
- Never carry cargo or tow a trailer.

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- Always avoid operating an ATV 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 ATV.
- 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 ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this manual.
- Always keep both hands on the handlebars and both feet on the footboards of the ATV 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.

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- Never 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.
- 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 for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in this manual. Check the terrain carefully before you start up any hill. Never climb hills 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. 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 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.

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- 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 over large obstacles, such as large rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be 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 deeper 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.

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⚠ 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 of ignition 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.

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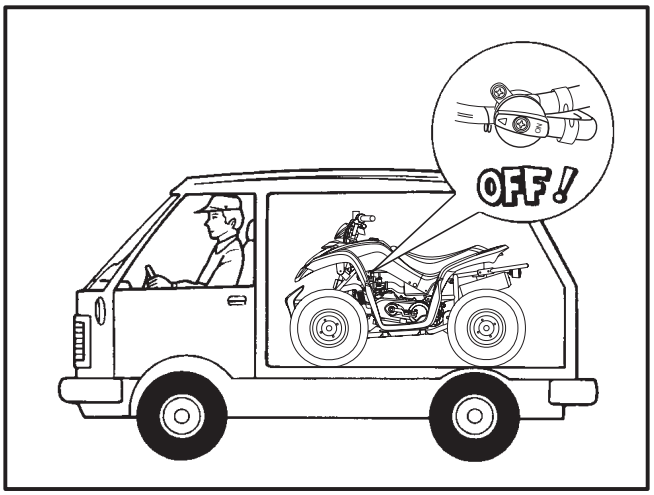

⚠ WARNING

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

WHAT CAN HAPPEN
Exhaust fumes are poisonous and may cause loss of consciousness and death within a short time.

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

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DESCRIPTION AND MACHINE IDENTIFICATION

Identification number records

Record the key identification number, frame serial number, engine serial number and model code information for assistance when order replacement parts.

KEY NO. _____

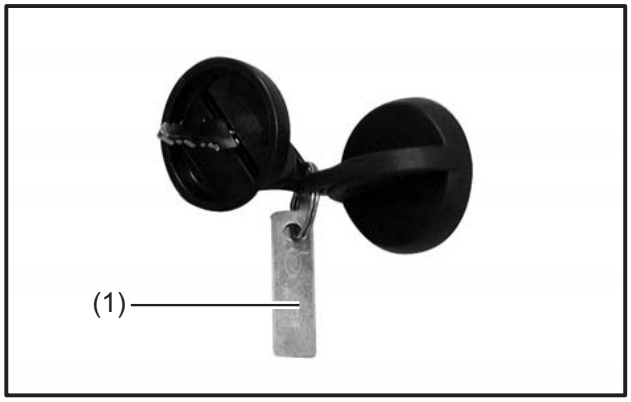
FRAME NO. _____

ENGINE NO. _____

MODEL CODE _____

Key identification number

The key identification number is stamped on the hang tag as shown in the following illustration.



(1) Key identification number

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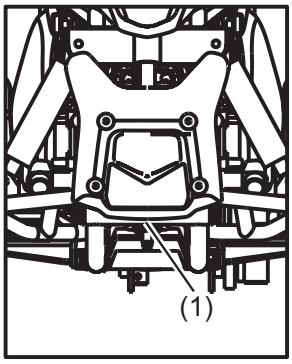
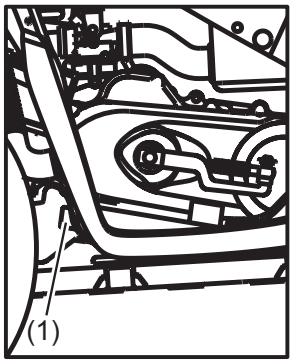
Frame and engine serial number

The frame serial number is stamped on the front of the frame.

The engine serial number is stamped on the left crankcase.



(1) Frame serial number



(1) Engine serial number

Model code

MODEL CODE: LA20AB

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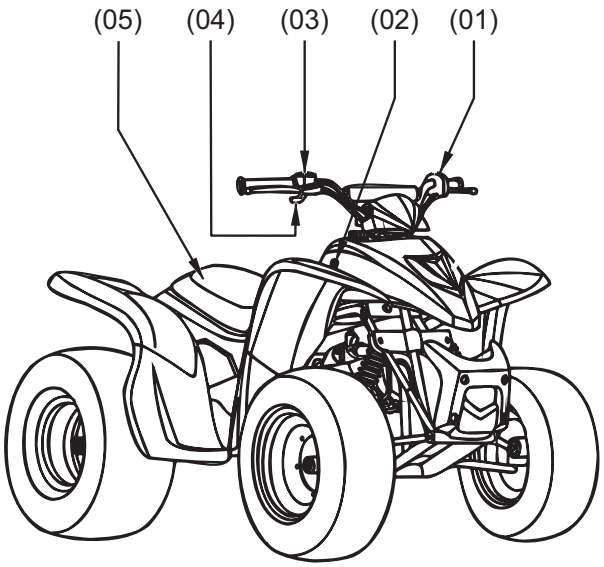
Parts location



(1) Handlebar switch
(2) Ignition switch
(3) Speed limiter
(4) Throttle lever
(5) Seat

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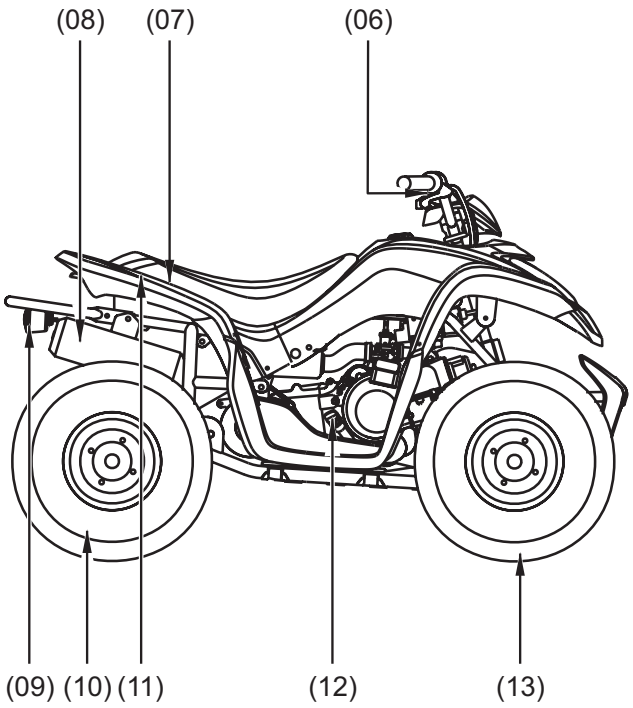

(06) Remote engine stop switch
(07) Storage compartment, containing
Owner's manual
Air pressure gauge
Tool kit
(08) Exhaust pipe
(09) Taillight/Stop light
(10) Rear wheel
(11) Seat lock lever
(12) Oil filler cap/dipstick
(13) Front wheel

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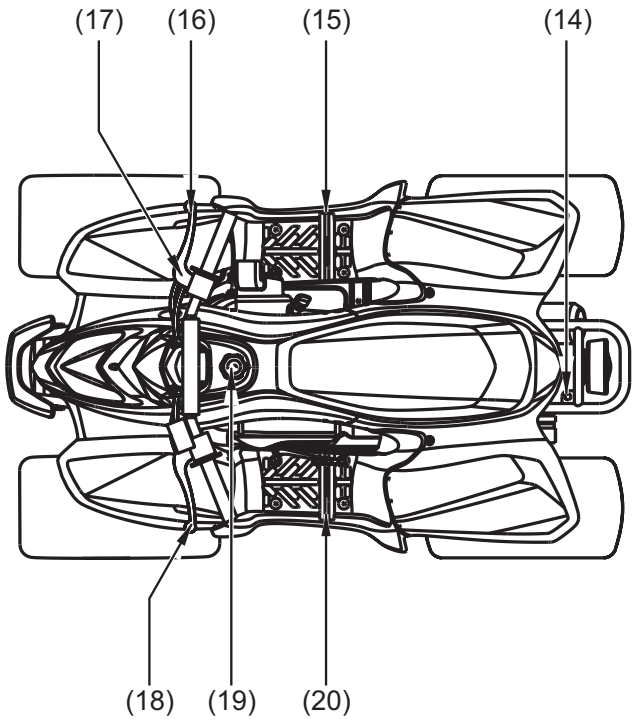

(14) Flat pole bracket
(15) Right footboard
(16) Front brake lever
(17) Parking brake
(18) Rear brake lever
(19) Fuel fill cap
(20) Left footboard

NOTE:

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

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CONTROL FUNCTIONS

Ignition switch

Functions of the respective switch positions are as follows:

OFF:

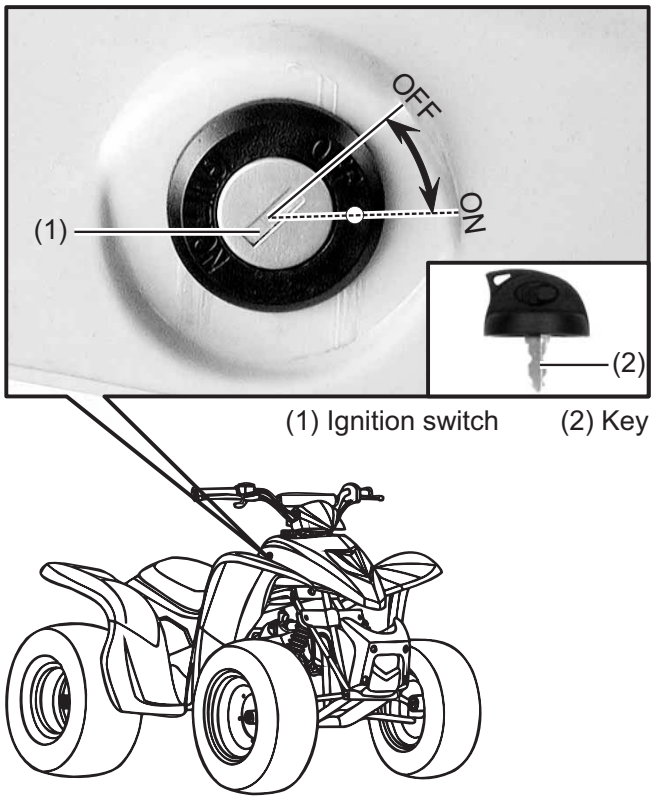
All electrical circuits are switched off. The key can be removed in this position.

ON (•):

The taillight can be turned on.

With the engine stop switch at run ( ), the engine can be started.

The key can not be removed.



(1) Ignition switch (2) Key

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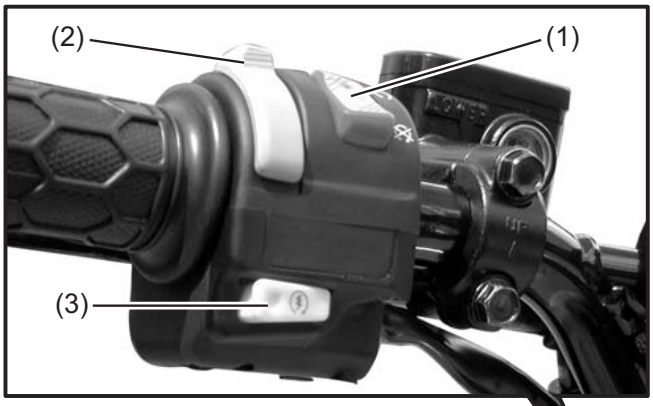
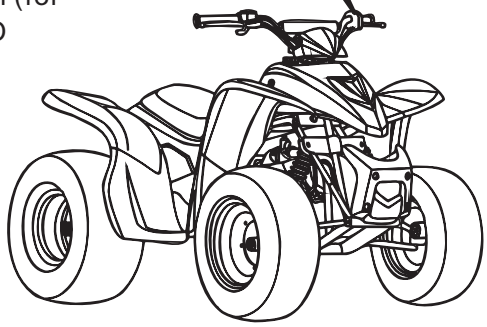
Handlebar switches



(1) Engine stop switch "○" "⊗"
(2) Headlight switch (for genuine KYMCO accessories)
(3) Start switch "⚡"



Engine stop switch

When the switch is in the RUN (○) position, the engine will operate. When the switch is in OFF (⊗) position, the engine will not operate.

This switch is intended primarily as a safety or emergency control, and it should normally remain in the RUN (○) position.

NOTE:

If you stop your ATV by turning the engine stop switch OFF (⊗), be sure to turn the ignition switch OFF to prevent battery discharge.

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Headlight switch

The headlight switch should be operated when you add the headlight equipment (using genuine KYMCO accessories).

Turning the switch to the " ≡DC≡ " position to switch off the headlight.

Turning the switch to the "≡D" position to switch on the low beam.

Turning the switch to the "≡D" position to switch on the high beam.

NOTE:

- The USA model does not come equipped with headlights as standard equipment.
- If the headlight is not equipped, be sure to turn the headlight switch " ≡DC≡ " to prevent battery discharge.

Stater button

To starter the engine, press the starter button, with the ignition switch ON (•) and the engine stop switch at RUN ( )

CAUTION:

See starting instructions prior to starting engine (see page 42 for details).

NOTE:

If the starter switch is pushed with the ignition switch " · " and the engine stop switch " ", 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 " ".

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Kick starter

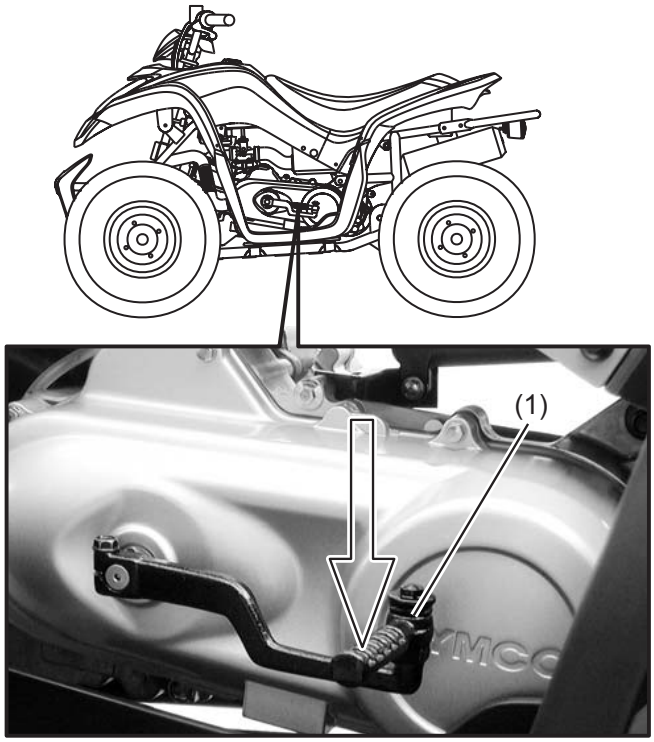
The kick starter cranks the engine when the kick starter is operated.

CAUTION:

See starting instructions prior to starting engine (see page 43 for details).

NOTE:

If the kick starter is operated with the ignition switch at " · " and the engine stop switch "⊗", the engine will not start. To start the engine, be sure to position the engine stop switch at "○".



(1) Start kick lever

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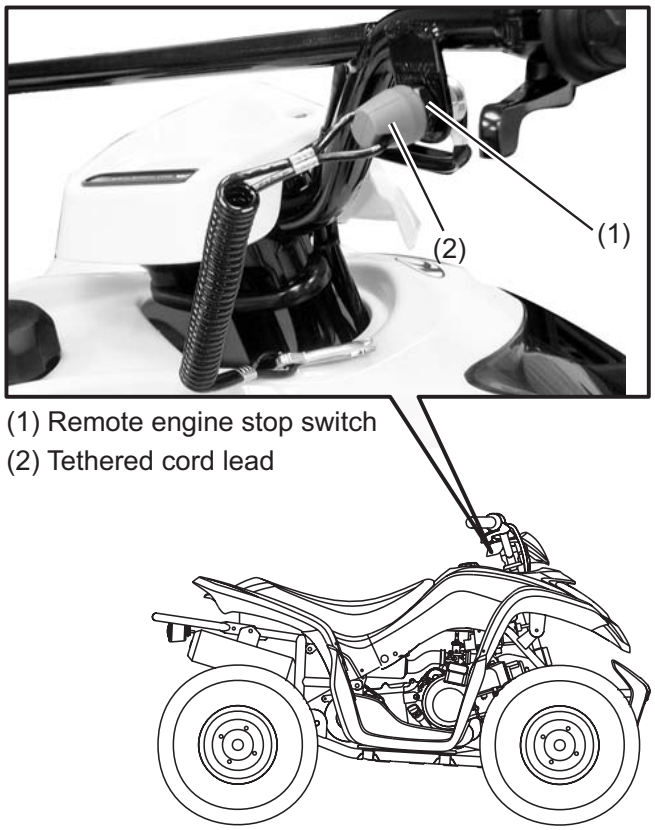
Remote engine stop switch

The ATV has a remote engine stop switch. This allows the supervisor to follow close behind and stop the engine by pulling a tethered core. Practice using it when your youngster first starts riding.

NOTE:

Make sure the tethered road lead is installed into the remote engine stop switch. When the tethered road lead is not installed, the engine will not operate.



(1) Remote engine stop switch
(2) Tethered cord lead

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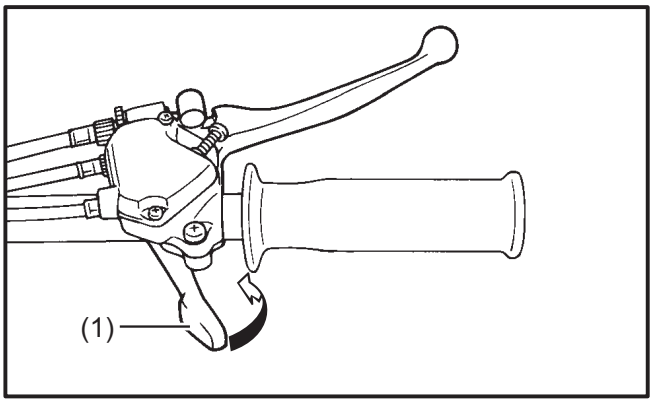
Throttle lever

It is operated by the thumb. Pressing the lever opens the throttle. When pressure is released, spring tension automatically closes the throttle. Regulate the speed of the machine by varying the throttle position.



(1) Throttle lever

⚠ 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.

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Speed limiter

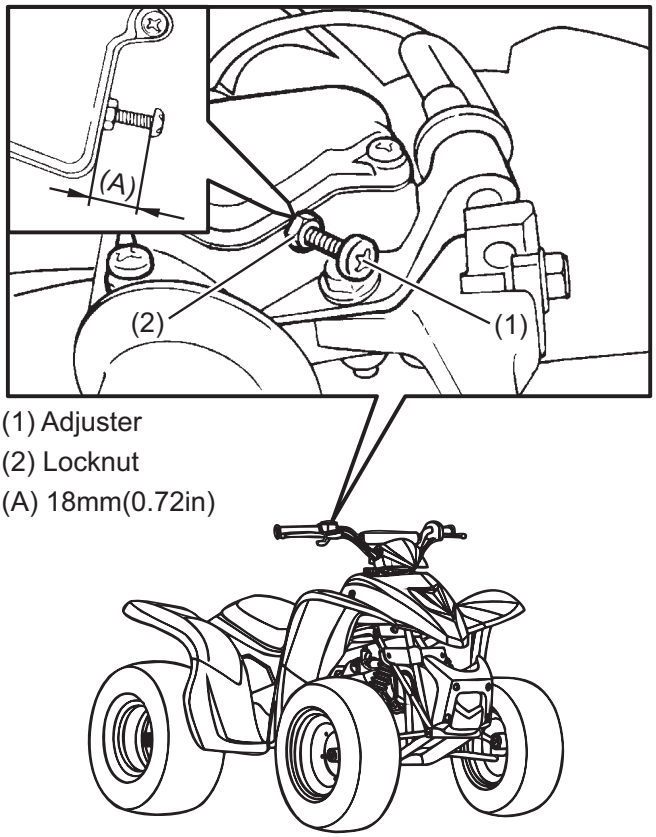
The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Screwing in the adjuster limits the maximum engine power available and decreases the maximum speed of the ATV.

⚠ WARNING

POTENTIAL HAZARD
Improper adjustment 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 18 mm (0.72 in). Always make sure the throttle lever free play is adjusted to 3~5 mm (0.12~0.2 in). See page 108.



(1) Adjuster
(2) Locknut
(A) 18mm(0.72in)

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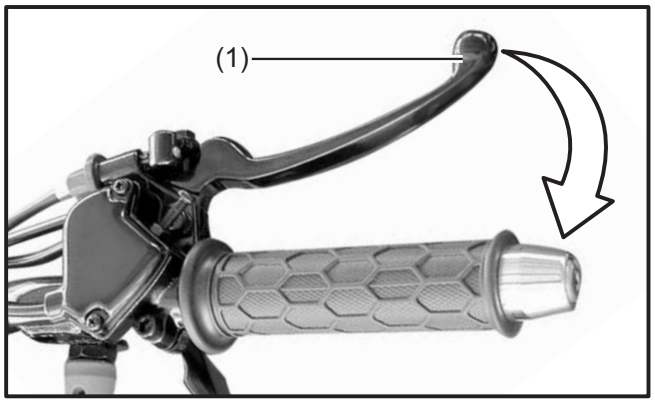
Front brake

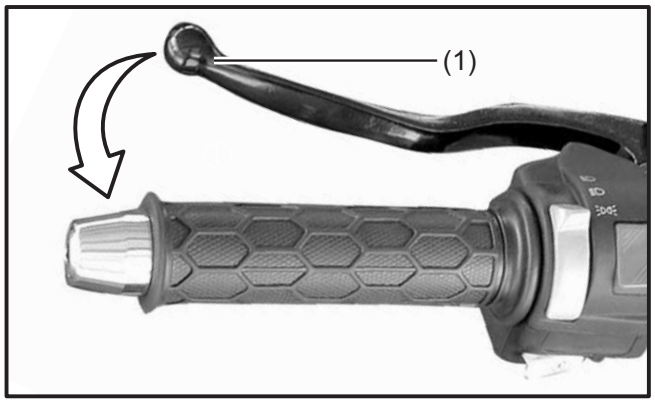
The front brakes are operated by squeezing the front brake lever.



(1) Front brake lever

Rear brake

The rear brakes are operated by squeezing the rear brake lever.



(1) Rear brake lever

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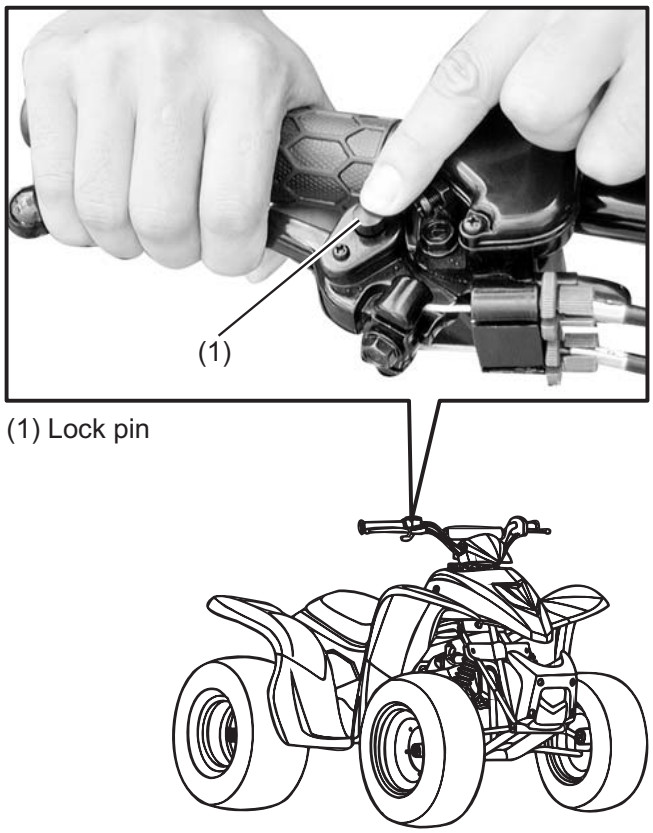
Parking brake

To set the parking brake, squeeze the front brake lever and lock it with the lock pin. Always set the parking brake when parking and before starting the engine.

To unlock the parking brake, squeeze the front brake lever until the lock pin releases.

Using the parking brake in freezing weather may cause the brakes to freeze in the locked position. (See page 46.)



(1) Lock pin

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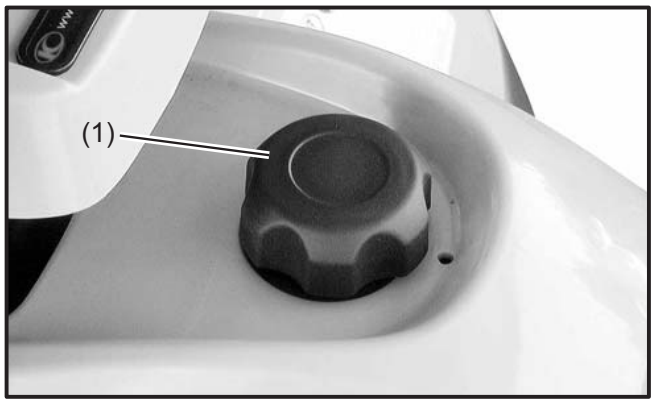
⚠ WARNING

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.

Fuel tank cap
After refueling, be sure to tighten the fuel tank cap.
TO refuel refer to page 36~37.



(1) Fuel tank cap

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Fuel valve

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

The fuel valve has three positions.

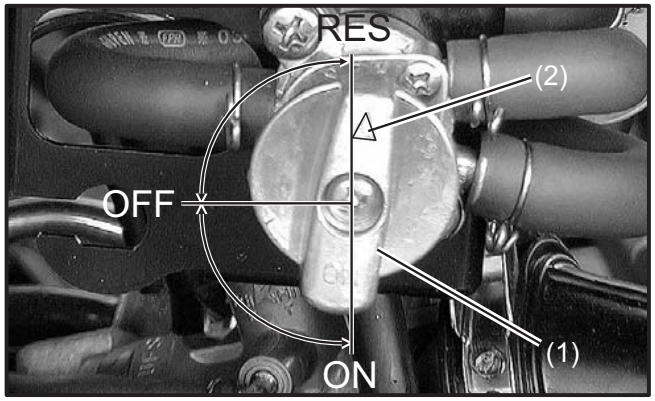
OFF: With the lever and " △ " mark in this position fuel will not flow. Always turn the lever to this position when the engine is

ON : not running.

With the lever " △ " mark in this position, fuel flows to the carburetor. Normal riding

RES: is done with the lever in this position.

This indicates reserve. If you run out of fuel while riding, turn the lever " △ " mark to this position. THEN FILL THE FUEL TANK AT THE FIRST OPPORTUNITY. After refueling, return the fuel valve lever to the "ON" position.



(1) Fuel lever (2) " △ " mark

NOTE:

After refueling, do not operate the ATV with the fuel valve in the RES position. If you run out of fuel, there will be no reserve supply.

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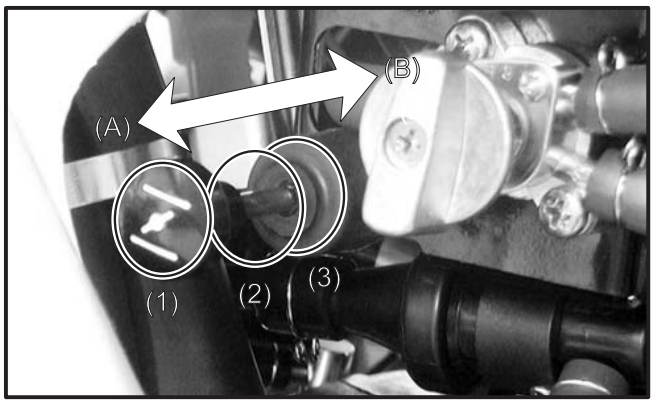
Starter (choke)

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 43.)



(1) Fully open (2) Half open
(3) Closed (A) Starter (choke)

CAUTION:

- Extended use of the choke may impair piston and cylinder wall lubrication and shorten the life of the engine.
- Pushing the choke knob too hard to the OFF position may dislodge the choke cable boot. If this happens, water and dirt may enter the choke cable and cause corrosion. If the choke is hard to actuate, or feels like it is sticking, Check the cable boot

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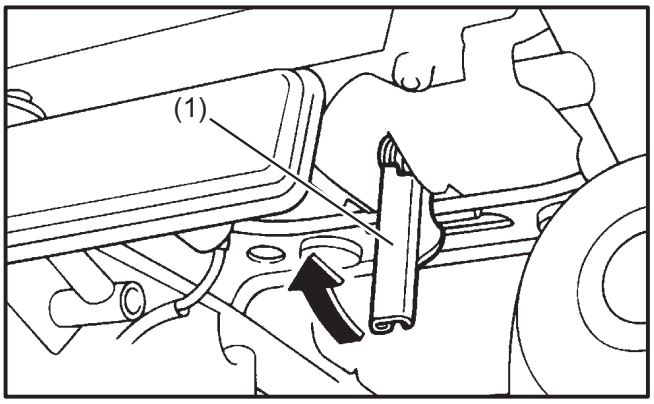
Seat

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



(1) Seat lock lever

To install the seat, align the tabs on the seat with the grommets on the frame and press the seat down until it locks.

NOTE:

Make sure that the seat is securely fitted.

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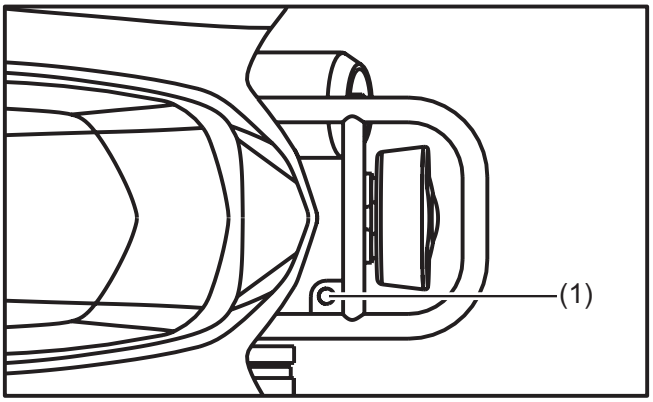
Flag pole bracket

To mount a flag pole in the bracket.

NOTE:

Flag poles are required in some riding areas. Check local regulations before riding.

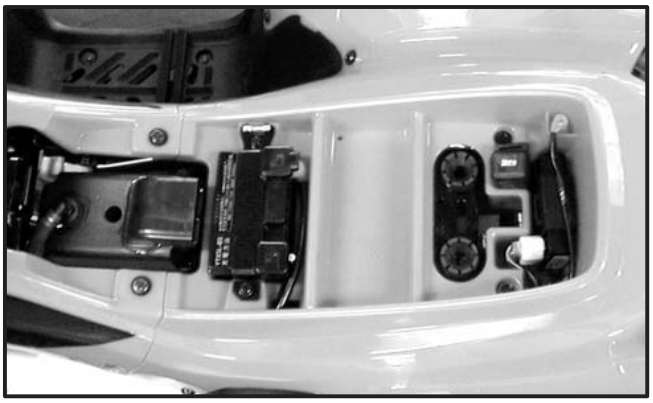


(1) Flag pole bracket

Storage compartment

The storage compartment is located under the seat. To remove the seat, see page 32.

Be careful not to flood this area when washing your ATV or riding through water, and never put any electric conduction material in the storage compartment.



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PRE-OPERATION CHECKS

Before using this machine, check the following points:

ITEM	ROUTINE	PAGE
Brake	• Check operation, condition, free play (drum brake) and brake fluid level (disk brake). • Adjust (drum brake) if necessary. • Fill with DOT 4 brake fluid (disk brake) if necessary.	35～36, 109～113
Fuel	• Check fuel level. • Fill with fuel if necessary.	36～37
Engine oil and Transmission oil	• Check oil level. • Fill with oil if necessary.	38, 96～102
Drive chain	• Check chain slack and condition. • Adjust if necessary.	39, 114～116
Throttle	• Check for proper throttle cable operation.	39
Wheels and tires	• Check tire pressure, wear and damage.	40～42, 118
Fittings and fasteners	• Check all fitting and fasteners.	39
Switches	• Check for proper function.	39
Lights	• Check for proper operation.	39

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⚠ WARNING

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

WHAT CAN HAPPEN
Increases the possibillty 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. Drum brake
   Check for correct free play in the brake levers. If the free play is incorrect, adjust it. (See pages 110~111.)

   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. Disk brake
   Make sure there is no brake fluid leakage.

   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.

3. 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 109.)

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⚠ WARNING

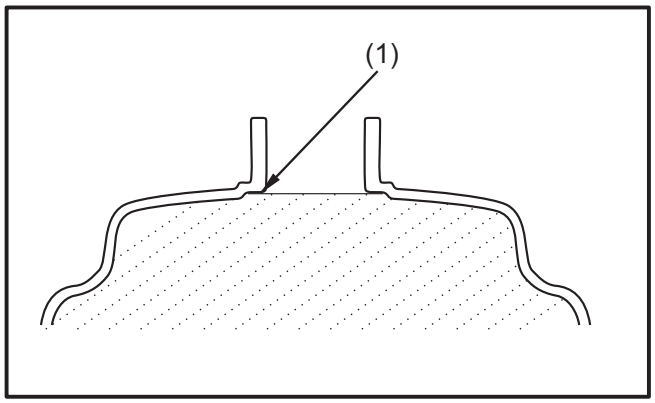
POTENTIAL HAZARD
Riding with improperly operating brakes.

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

Fill the fuel tank when necessary and make sure there is sufficient gasoline in the tank.
Check for leaks.
Fuel level should be below the filler neck.



(1) Filler neck

Recommended fuel:
UNLEADED FUEL
Fuel tank capacity:
Total: 5.5L(1.16 lmp gal, 1.4 US gal)
Reserve: 1.5L(0.32 lmp gal, 0.38 US gal)

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Your KYMCO engine has been designed to use regular unleaded gasoline with a pump octane number 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.

Use unleaded fuel only because it produces fewer engine and spark plug deposits and extends the life of the exhaust system. Never use stale or contaminated gasoline or an oil/gasoline mixture.

Avoid getting dirt, dust or water in the fuel tank.

⚠ WARNING

POTENTIAL HAZARD

Improper care when refueling.

WHAT CAN HAPPEN

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.

HOW TO AVOID THE HAZARD

Do not overfill the fuel tank. 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.

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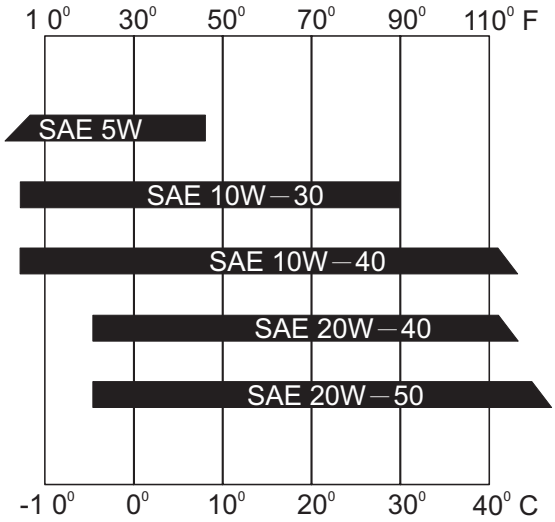
Engine and transmission oil

Make sure the engine and transmission oil at the specified level. Add oil as necessary. (See page 96~102.)

Check for leaks.



Recommended engine/transmission oil classification: API Service SE, SF, SG type or higher

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 starter clutch slippage, resulting in reduced component life and poor engine performance.

Oil quantity:

Engine oil:

Periodic oil change:

0.7 L (0.62 Imp qt, 0.74 US qt)

Total amount:

0.8 L (0.70 Imp qt, 0.84 US qt)

Transmission oil:

Periodic oil change:

0.11 L (0.10 Imp qt, 0.12 US qt)

Total amount:

0.12 L (0.11 Imp qt, 0.13 US qt)

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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 114~116 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.

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Tires

⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper 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

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

	Size	Type
Front	18*7-8	TUBELESS
Rear	18*9-8	TUBELESS

2.The tires should be set to the recommended pressure:

- **Recommended tire pressure**
  Front: 25 kpa (0.25 kgf/cm^2, 3.6 psi)
  Rear: 25 kpa (0.25 kgf/cm^2, 3.6 psi)
- **Check and adjust tire pressures when the tires are cold.**
- **Tire pressures must be equal on both sides.**

3.Tire pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions.
The following are minimums:
Front: 22 kpa (0.22 kgf/cm^2, 3.2 psi)
Rear: 22 kpa (0.22 kgf/cm^2, 3.2 psi)

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4. Never set tire pressure over the recommended

Front: 28 kpa (0.28 kgf/cm², 40 psi)

Rear: 28 kpa (0.28 kgf/cm², 40 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.

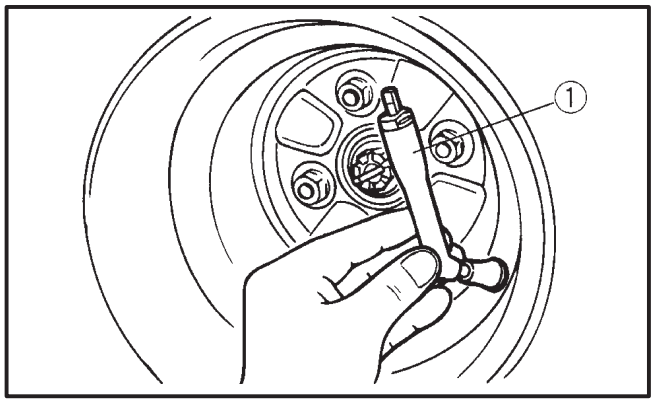
NOTE:

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

	Recommended pressure	Minimum	Maximum
Front	25 kpa (0.25 kgf/cm², 3.6 psi)	22 kpa (0.22 kgf/cm², 3.2 psi)	28 kpa (0.28 kgf/cm², 4.0 psi)
Rear	25 kpa (0.25 kgf/cm², 3.6 psi)	22 kpa (0.22 kgf/cm², 3.2 psi)	28 kpa (0.28 kgf/cm², 4.0 psi)



(1) Low-pressure tire gauge

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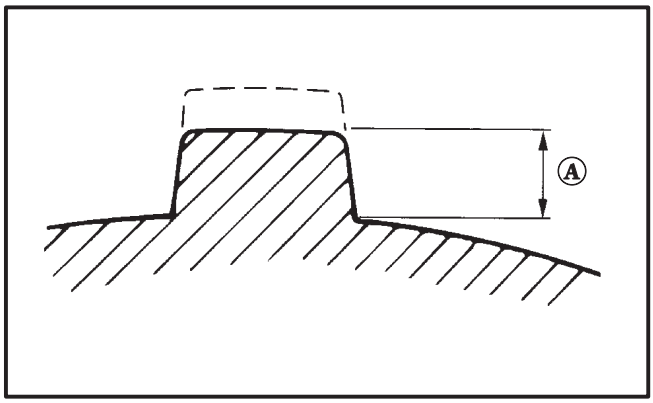
Tire wear limit

When the tire groove decreases to 4 mm (0.16 in) due to wear, replace the tire.



A. 4mm (0.16 in)

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OPERATION

⚠ 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, ask your KYMCO dealer.

Starting a cold engine

⚠ WARNING

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.

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

1. Select a level surface and lock the parking brake (see page 28) before starting the engine.
2. Turn the fuel lock to "ON".
3. Turn the main switch to " · " and the engine stop switch to " ".
4. Make sure the tethered road lead is installed

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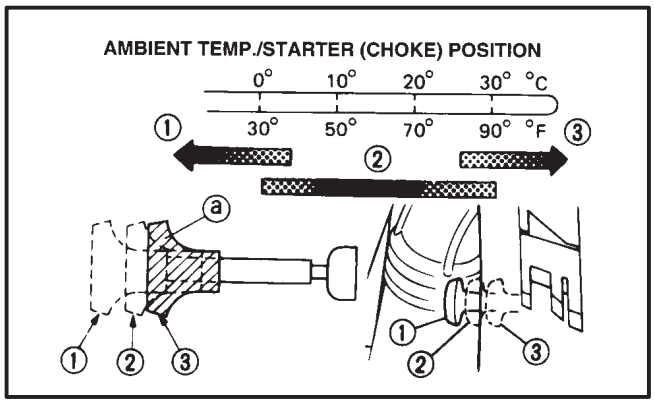
5. Use the starter (choke) in reference to the figure:

Position ①:Cold engine start-ambient temperature below 5C (40F).

Position ②:Cold engine start-ambient temperature at 0C (30F)~30C(90F) and warming up position.

Position ③:Cold engine start-ambient temperature above 25C(80F) and warm engine start position.



1. Fully open
2. Half open
3. Closed
a. Starter (choke)

6.With the throttle closed, push the starter button. Release the starter button as soon as the engine starts.

NOTE:

Do not use the electric starter for more than 5 seconds at a time. Release the starter button for approximately 10 seconds before pressing it again.

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

CAUTION:

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

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To start the engine without the electric starter.
1. Follow steps 1 through 5.
2. With the throttle closed, operate the kick starter with a rapid, continuous motion.

CAUTION:

- Do not allow the kick starter to snap back freely against the pedal stop as engine case damage could result.
- Raise the kick starter pedal after the kick starter lever is returned to the stop.

3. Follow steps 7 through 8.

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 or not the engine is warm, check if it responds to the throttle normally with the starter (choke) turned off.

CAUTION:

- Do not operate the throttle (open and close rapidly) as the ATV will move forward suddenly, causing possible loss of control.
- Do not leave the ATV unattended while the engine is warming up

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.

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During this period, prolonged full throttle 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.

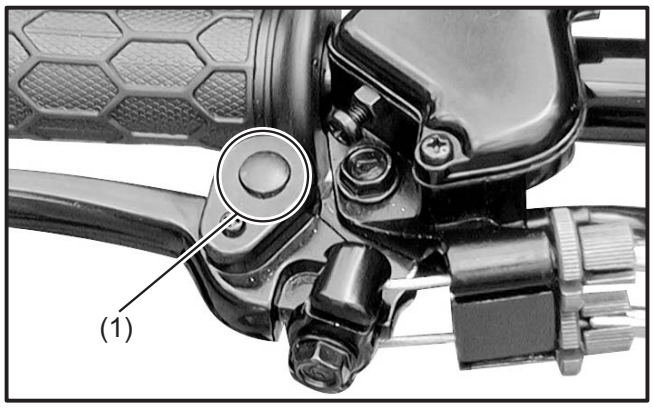
3. After break-in
   Avoid prolonged full throttle operation. Vary speeds occasionally.

Parking

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

Make sure the lock pin into the locked position.

To set the parking brake, see page 28.



(1)Locked position

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Parking on a slope

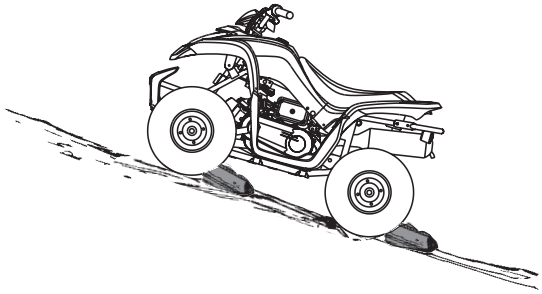
⚠ WARNING

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 and rear 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.

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



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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 to test 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 in design 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

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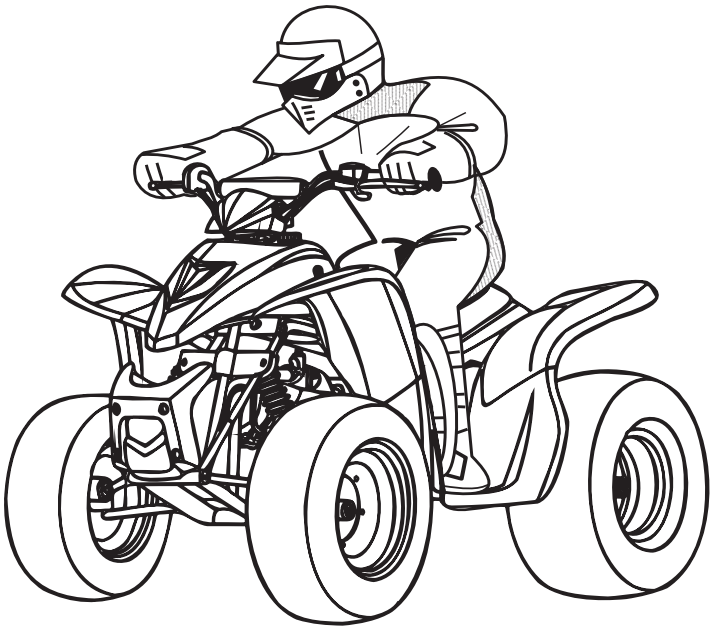
Riding Your ATV



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GETTING TO KNOW YOUR ATV

This ATV is for recreation 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 your new 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 necessary to enjoy riding safely. Before you begin to 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 and special safety message on pages 4~14. Please also read all caution and warning labels on your ATV.

BEFORE RIDING

Before allowing your youngster to ride the ATV, read "Important Message To Parents" (beginning on page 4) carefully and decide whether your youngster is ready to ride.

You need to prepared before riding. This includes getting proper instruction, making sure your ATV is in good operating condition, and learning some basic safe-rifing rules.

RIDER PREPARATION

Age Recommendation

The minimum recommended age for this ATV model is 12. For safety, never let children under 12 years old operate this vehicle. Children under 16 should be supervised by an adult.

⚠ WARNING

POTENTIAL HAZARD
Failure to follow the age recommendations for this ATV.
Failure to supervise children under 16 on ATV models intended for their use.

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WHAT CAN HAPPEN
If children use ATVs that are not recommended for their age, severe injury or death can result.
Even though a child may be within the age group for which an ATV is recommended, he or she may not have the skills, abilities, or judgment needed to operate the ATV safely and may be involved in a serious accident.

HOW TO AVOID THE HAZARD
A child under 12 should never operate this ATV.
Never allow a child under 16 to operate an ATV without adult supervision and never allow continued use of t e ATV by a child If he or she does not have the abilities to operate it safely.

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.

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HOW TO AVOID THE HAZARD

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.

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.

Pre-operation checks

Always perform the pro-operation checks listed on page 34 before riding for safety and proper care of the machine.

⚠ 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 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.

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⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper 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 an accident.

HOW TO AVOID THE HAZARD

Always use the size and type tires specified in the Owner's Manual for this vehicle on pages40~42.

Always maintain proper tire pressure as described in the Owner's Manual on page 41.

Weight Limits

This ATV is not designed to carry cargo or tow a trailer. Do not add a cargo rack or a trailer hitch.

There are limits to how much weight can be carried on your ATV. The following weight limit applies to standard equipment only. Modifying your ATV, using non-standard equipment or riding on terrain that is not flat and smooth could further reduce these limits.

Maximum weight capacity: 85 kg (187 lb)
(Including weight of operator, cargo and accessories)

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⚠ WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo.

WHAT CAN HAPPEN

Could cause changes in vehicle handling, stability and braking which could lead to an accident.

HOW TO AVOID THE HAZARD

Never exceed the stated maximum weight capacity for this ATV.

Never carry cargo or tow a trailer.

Accessories

Genuine KYMCO accessories have been specifically designed for and tested on this vehicle. Because KYMCO cannot test all other accessories, you are personally responsible for properly selecting, installing, and using non-KYMCO accessories. Always follow the loading instructions above, plus the following:

1. Carefully inspect the accessory to make sure it does not block any lights, reduce ground clearance, or limit suspension travel, steering travel, or other controls.
2. Make sure the accessory does not interfere with your ability to shift body position on the seat or operate hand and foot controls.
3. Do not add electrical equipment that will exceed the vehicle's electrical system capacity. A blown fuse could cause a loss of lights or engine power.

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⚠ WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation 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.

No Modifications

Modifying this ATV or removing original equipment may render the vehicle unsafe or illegal. Spark arresters and mufflers are required in most areas. Don't modify your exhaust system or emission control system components. Remember, excessive noise bothers everyone and creates a bad image for off-road vehicles.

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SAFE RIDING RULES

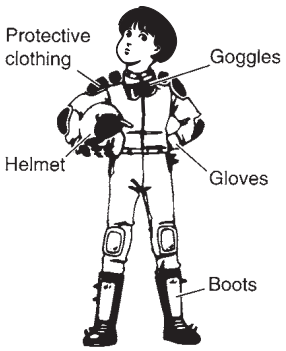
Please note that the safe Riding Rules apply to all ATV riders.
Even if you are an experienced rider, or after you become one continue to follow these guidelines for your own safety and enjoyment.

Protective Apparel
Always wear an approved motorcycle helmet when riding your ATV. You should also always wear goggles or a face shield, gloves, boots, a long-sleeved shirt or jacket, and long pants.

⚠ 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 wear an approved motorcycle helmet that fits properly.

You should also wear:

- **eye protection (goggles or face shield)**
- **Gloves**
- **boots**
- **long-sleeved shirt or jacket**
- **Long pants**

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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.

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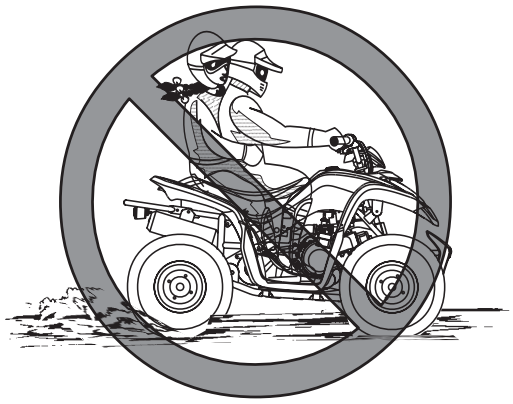
This machine is designed to carry operator only-passengers prohibited.

⚠ 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 seat is to allow the operator to shift position as needed during operation. It is not for carrying passengers.



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BE CAREFUL WHERE YOU RIDE

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

⚠ WARNING

POTENTIAL HAZARD

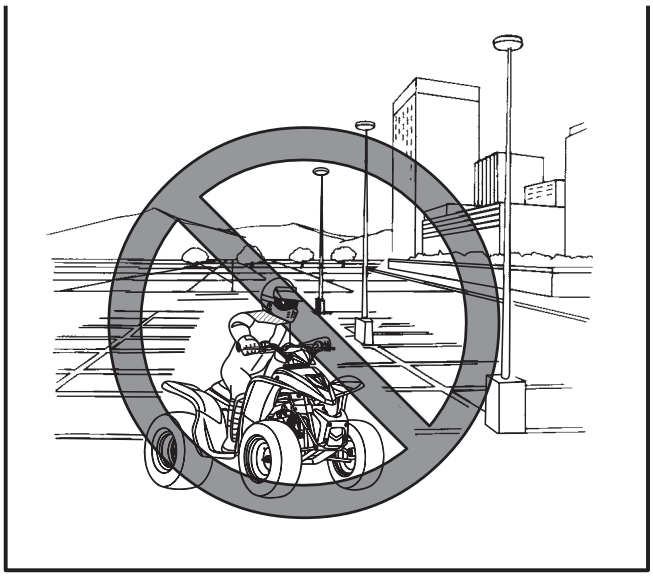
Operating this ATV on paved surfaces.

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.



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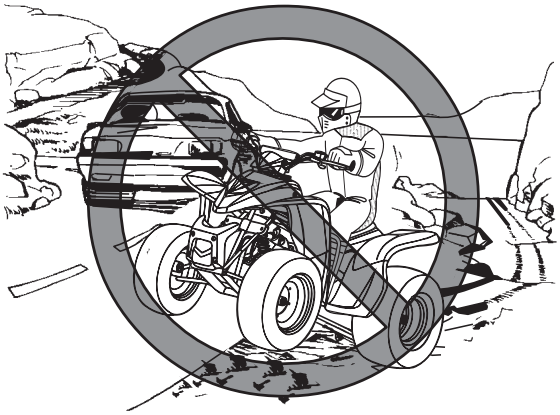
Do not ride on any public road, street, or highway.

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 highway, even a dirt or gravel one.

In many states it is illegal to operate ATVs on public streets, roads and highways.

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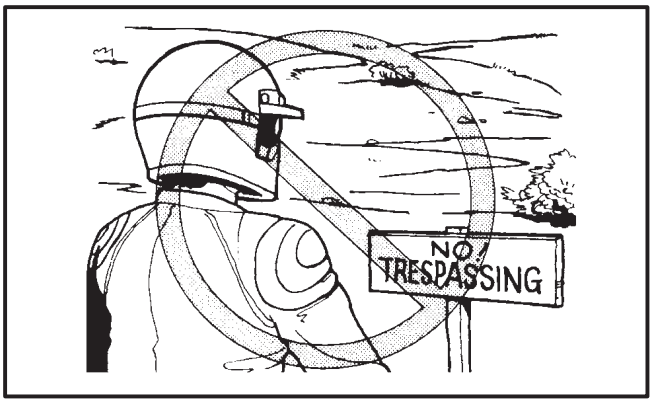
FOR OFF-ROAD USE ONLY

This vehicle is designed and manufactured for off-road use only.

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



Ride Only When Visibility Is Good

Your ATV is not equipped with headlight. It is intended to be used only during the daytime. You should ride only when visibility is good. Plan to stop riding well before it gets sark. Operation at night without lights may be illegal in some states.

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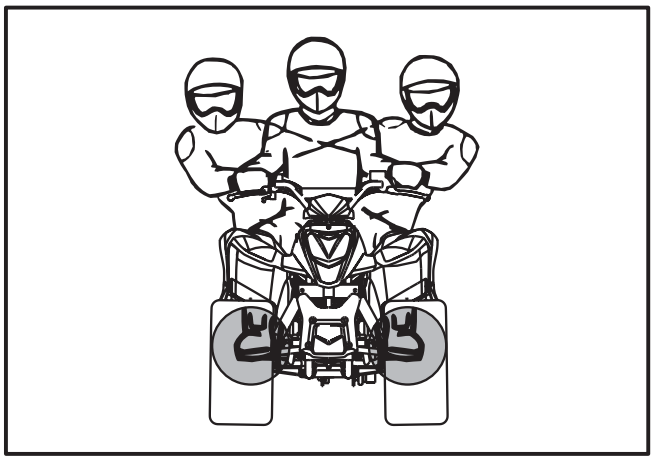
During operation

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



⚠ WARNING

POTENTIAL HAZARD

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

Always keep both hands on the handlebars and both feet on the footboards of your ATV during operation.

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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.

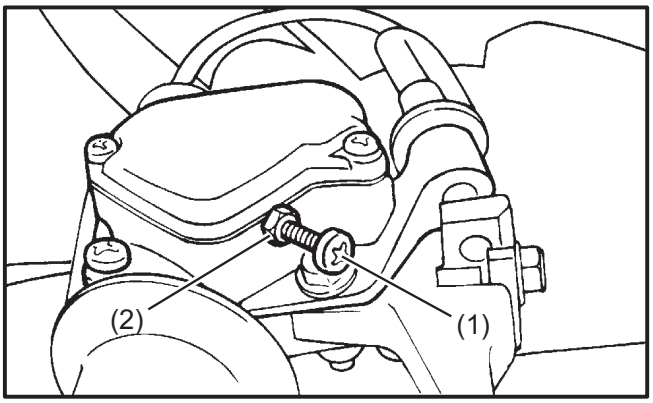
HOW TO AVOID THE HAZARD

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

Speed limiter

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 screw in decreases top speed, and turning it out increases top speed.



(1) Adjuster (2) Locknut

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

⚠ WARNING

POTENTIAL HAZARD

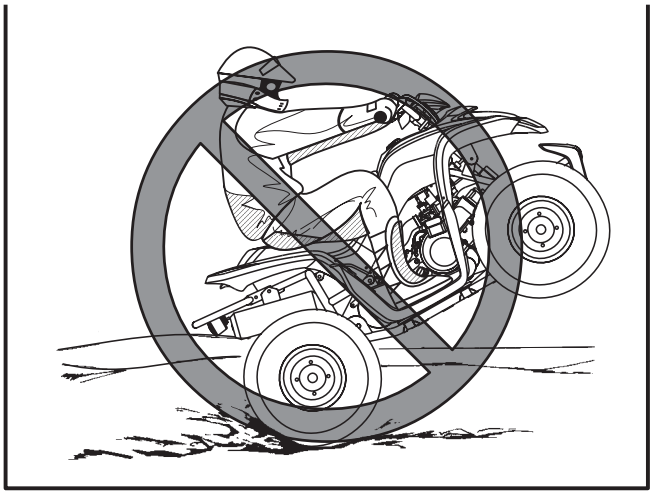
Attempting wheelies, jumps, and other stunts.

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.



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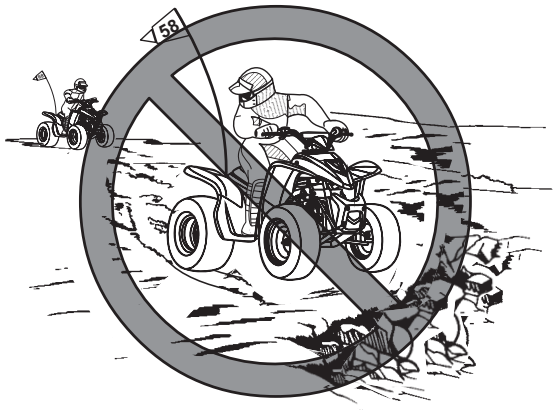
Know the terrain where you ride. Ride cautiously in unfamiliar areas. Stay alert for **holes, rocks, or roots** in the terrain, and **other hidden hazards** which may cause the machine to upset.



⚠ WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

You can come upon hidden rocks, bumps, or holes, without enough time to react.

Could result in the ATV overturning or going out of control.

HOW TO AVOID THE HAZARD

Go slowly and be extra careful when operating on unfamiliar terrain.

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

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⚠ WARNING

POTENTIAL HAZARD

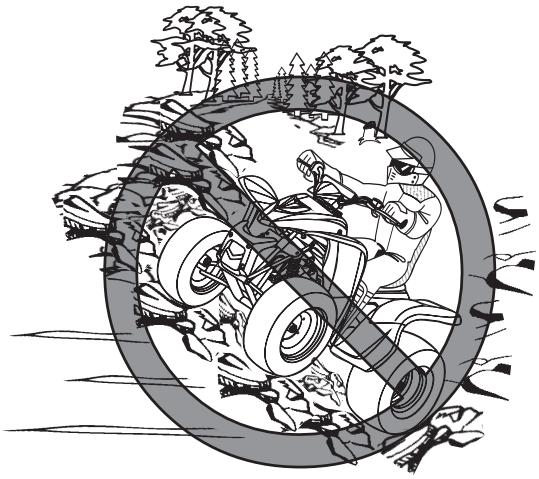
Failure to use extra care when operating on excessively rough, slippery or loose terrain.

WHAT CAN HAPPEN

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

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.



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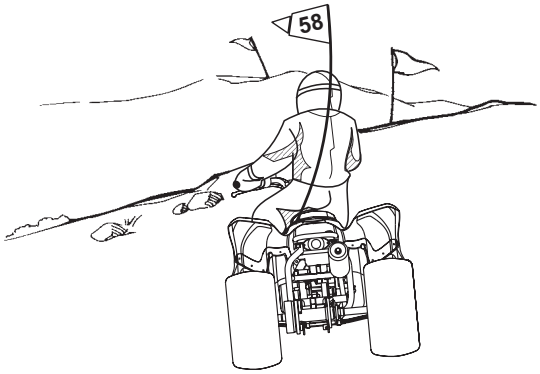
When riding in an area where you might not easily be seen, such as desert terrain, mount a caution flag on the machine. DO NOT use the flag pole bracket as a trailer hitch.



⚠ WARNING

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

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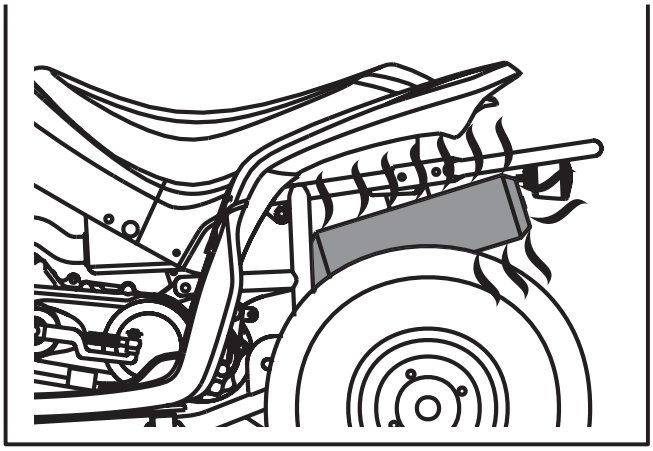
Exhaust system

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 touch it.



⚠ WARNING

POTENTIAL HAZARD
Hot exhaust system

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

HOW TO 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.

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RIDING

For your initial riding practice, select a safe area free of obstacles with a level surface of dirt or sand.

⚠ WARNING

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

WHAT CAN HAPPEN
Exhaust fumes are poisonous and may cause loss of consciousness and death within a short time.

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

Practice with the remote engine stop switch and throttle limiter adjusted as delivered until you are confident in braking and making turns.

Remote engine stop switch for new riders

The ATV has a remote engine stop switch. This allows the supervisor to follow close behind and stop the engine by pulling a tethered core. Practice using it when your youngster first starts riding.

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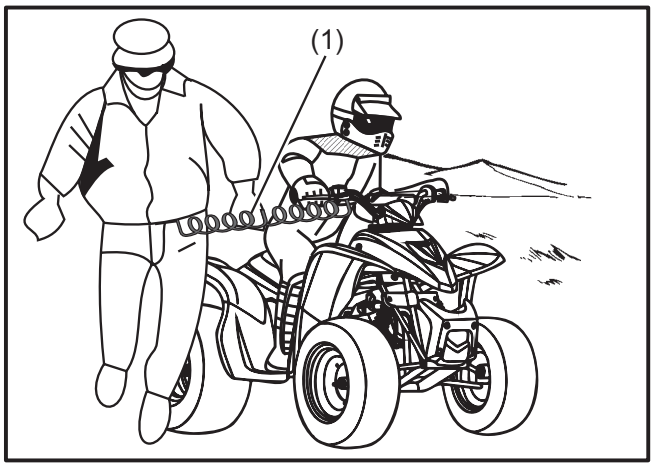
Pull the tether after the ATV is moving. The ATV may continue to roll for some distance. Watch the distance until the ATV stops. Be aware that this distance must be included in the stopping space of the ATV and that this distance may increase with speed.



(1) Tethered cord

Speed limiter for new riders

Your ATV has an adjustable throttle limiter. The screw and locknut in the lower throttle housing can be adjusted to limit throttle lever movement.

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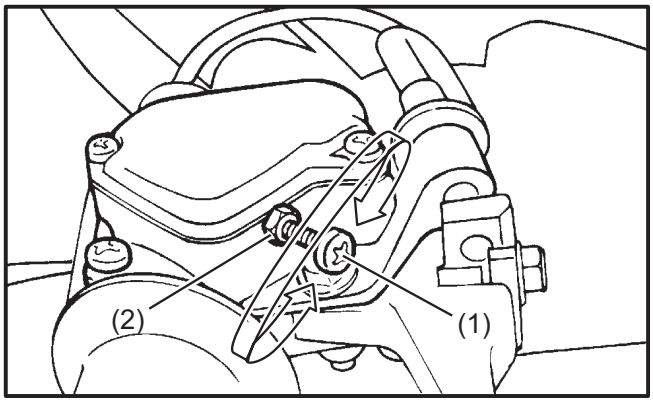
To adjust the throttle limiter:

1. Loosen the lock nut.
2. Turn the throttle limiter screw clockwise to reduce throttle lever movement or counterclockwise to increase throttle lever movement.
3. Hole the screw in place and tighten the lock nut.



(1) Adjuster (2) Locknut

BRAKING

Practice starting and stopping at slow speeds. Gradually work up to faster starts and stops.

1. Steer straight ahead. Close the throttle completely, remove your thumb from the throttle lever.
2. Gently apply the brakes: pull both hand levers.

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Gradually increase the lever pressure as you feel the brakes slowing your speed. The pressure used depends on your speed and the condition of the terrain you are riding. Slick , slippery or muddy ground requires gentler braking.

Pulling one or both brake levers too hard may cause the front and/or rear wheels to skid or slide out of control. If this happens, release all pressure on the lever(s) immediately. Steer straight ahead to regain control. Then gently reapply the brakes.

Independent use of only the front or rear brakes reduces stopping performance. Extreme braking may cause the wheels to lock, reducing control of the ATV

When possible, reduce speed or brake before entering a turn. Closing the throttle or braking in mid-turn may cause wheel slippage which will reduce control of your ATV.

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TURNING YOUR ATV

To achieve maximum traction while riding off-road, 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.

⚠ WARNING

POTENTIAL HAZARD

Turning improperly

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

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

Do not turn at excessive speeds.

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.

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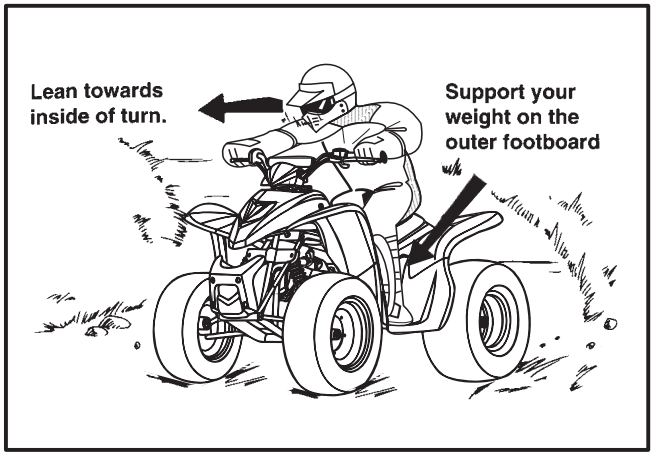

This procedure should be practiced at slow speed many times in a large off-road area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it 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 in tighter curves.

Improper riding procedures such as abrupt throttle changes, or too 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.

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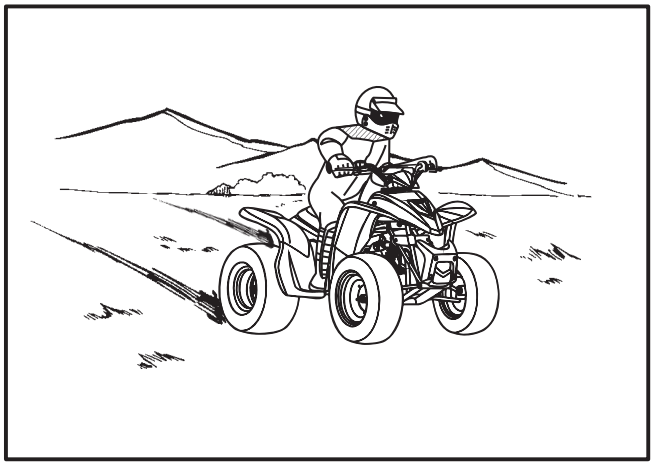
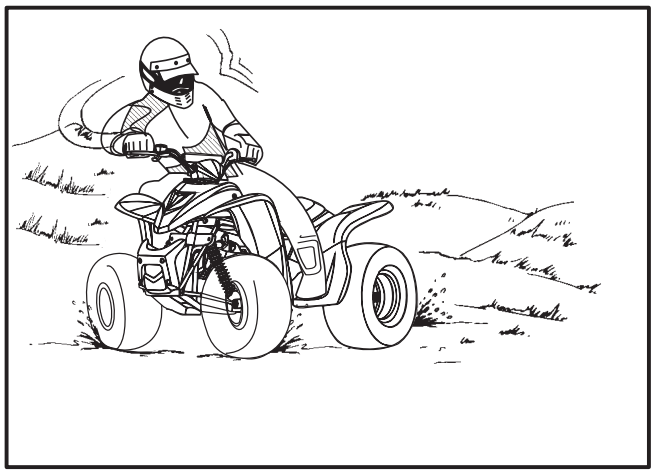
SLIDING AND SKIDDING

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.





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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 in mind that 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 CAN HAPPEN

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

HOW TO 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.

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CLIMBING UPHILL

Use proper riding 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.

⚠ WARNING

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.

HOW TO AVOID THE HAZARD

Never 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.

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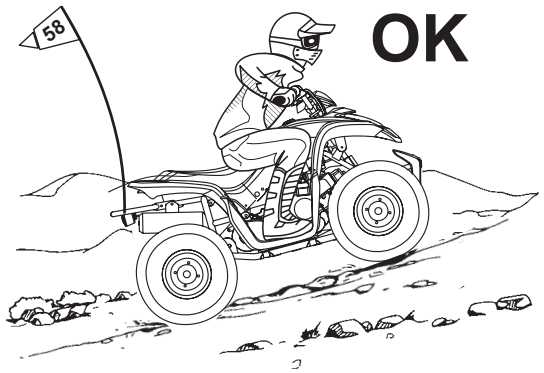
⚠ WARNING

POTENTIAL HAZARD
Climbing hills improperly

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

HOW TO AVOID THE HAZARD
Always follow proper procedures for climbing hills as described in this Owner's Manual.
Always check the terrain carefully before you start up any hill.
Never climb hills with excessively slippery or loose surfaces.
Shift your weight forward.
Never open the throttle suddenly.
The ATV could flip over backwards.
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.



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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

POTENTIAL HAZARD

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.

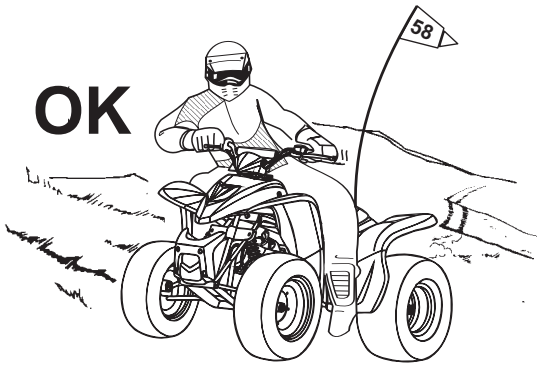
Avoid crossing the side of a steep hill if

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.

Shift your weight to the uphill side of the ATV.



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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

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

WHAT CAN HAPPEN
Could result in ATV overturning.

HOW TO AVOID THE HAZARD
Maintain steady speed when climbing a hill.

If you lose all forward speed:
Keep weight uphill.
Apply the brakes.
Lock parking brake, after you are stopped.

If you begin rolling backwards:
Keep weight uphill.
Never apply the rear brake while rolling backwards.
Apply the front brake.

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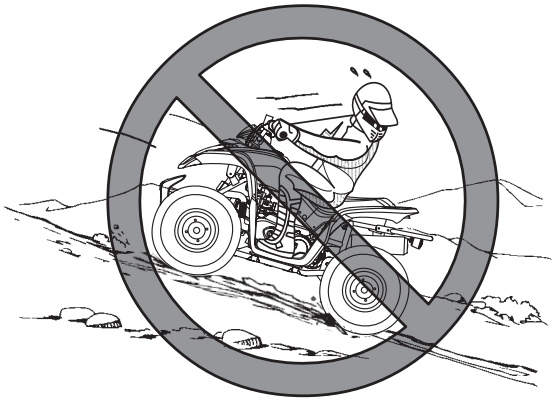
When fully stopped, apply rear brake as well, and then lock parking brake. Dismount on uphill side or to a side if pointed straight uphill. Turn the ATV around and remount, following the procedure described in the Owner's Manual.



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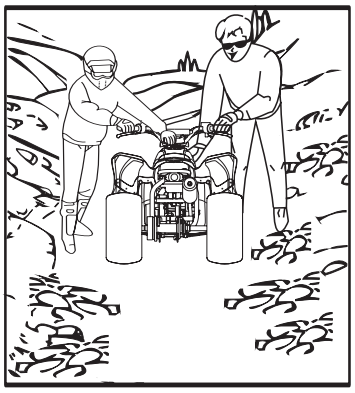
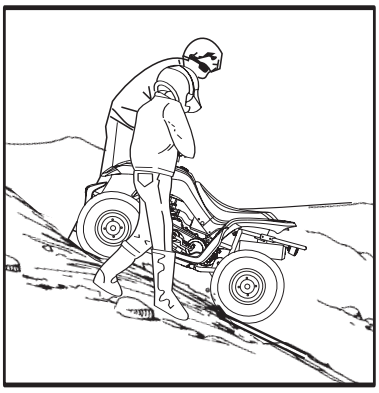
If the hill is not too steep and you have good footing, you may be able to walk the ATV back down the hill. Make sure your intended path is clear in case you lose control of the ATV . If you decide you can walk the ATV safely:

1. Stand with your body facing downhill, beside the vehicle so you can reach the rear brake liver with your left hand.
2. Be sure your legs are clear of the wheels.
3. Check your footing.
4. Then slowly and carefully back the ATV down the hill using the front brake lever to control speed.
5. If you lose control of the ATV, for your safety, get away from the vehicle,

If the hill is too steep or too slippery, or if you have any doubt whether you can safely walk the ATV back down the hill, leave the vehicle where it is and get help. If possible, block the wheels so the vehicle Won't roll backwards.





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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 slippery surfaces. 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.

⚠ WARNING

POTENTIAL HAZARD

Going down a hill improperly.

WHAT CAN HAPPEN

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

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.

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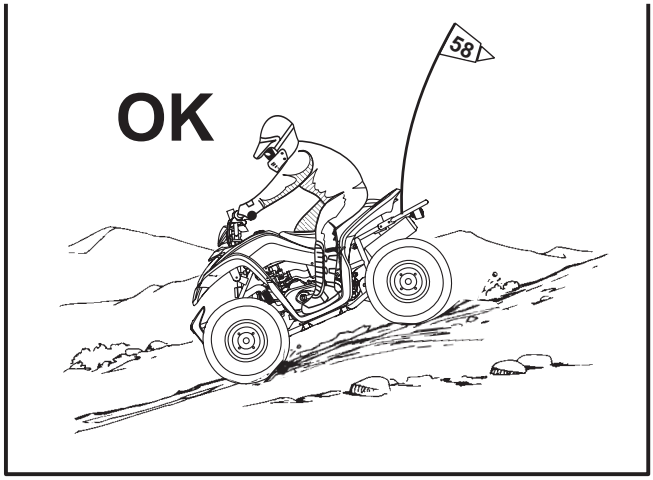

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CROSSING A SLOPE

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 uphill 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 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 loose surfaces.

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Shift your weight to the uphill side of the ATV.

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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.

⚠ WARNING

POTENTIAL HAZARD

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.

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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.

⚠ WARNING

POTENTIAL HAZARD

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 deeper than that specified in your Owner's 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.

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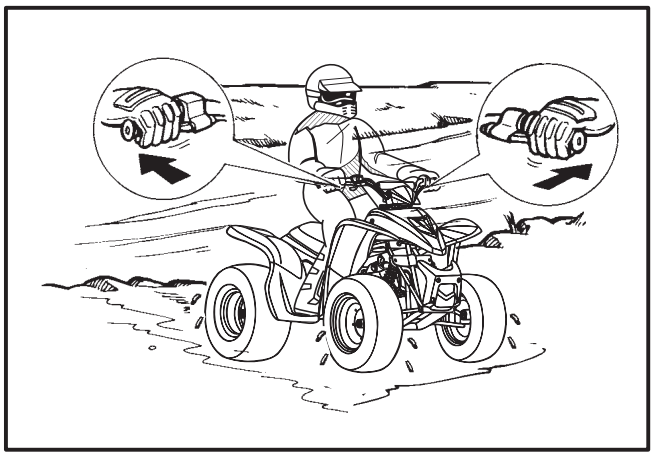
Test your brakes after leaving the water. Do not continue to ride your ATV without verifying that you have regained proper braking ability.



PARKING

Always choose a level place to park. After bringing your ATV to a stop, hold the brakes while you shift into neutral. Then set the parking brake and turn the ignition switch OFF. If you're through parking for the day, also turn the fuel valve OFF.

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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 73~74.)

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 73~74.)

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 75~76.)

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

Turn 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 77~82.)

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If your ATV is traversing a sloping surface:
Be sure to ride with your weight positioned towards the 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 85~86)

If your ATV encounters shallow water:
Ride slowly and carefully through slow moving water, watching for obstacles. Be sure to let water drain from the ATV and CHECK YOUR BRAKES FOR PROPER OPERATION when you come out of the water. Do not continue to ride your ATV until you have regained adequate braking ability. (See pages 88~89.)

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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.

⚠ WARNING

POTENTIAL HAZARD

Servicing an engine while it is running.

WHAT CAN HAPPEN

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

Electrical components can cause shocks or can start fires.

HOW TO AVOID THE HAZARD

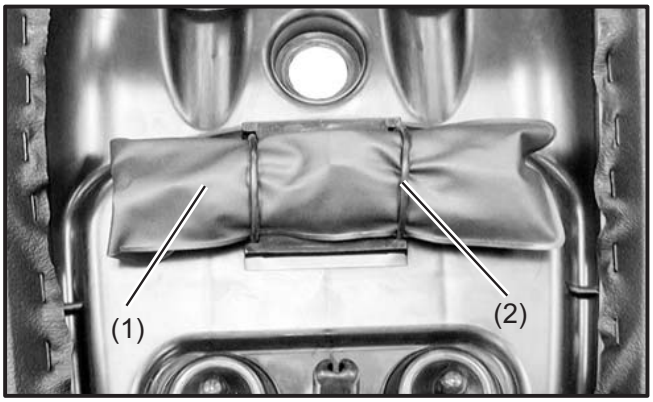
Turn off the engine when performing maintenance unless otherwise specified.

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

Tool kit

A tool kit is provide with your ATV.

You are recommended to put the tool kit in the vinyl bag and always carry them on the seat reverse side.



(1) Tool kit (2) Rubber band

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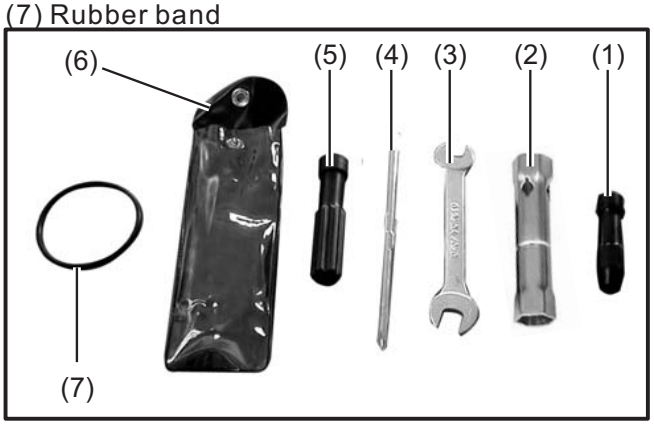
The tools in the kit are sufficient to perform routine maintenance and simple repairs. Any extensive work requiring additional tools should be performed by your authorized KYMCO dealer.

The tool kit includes the following items:
(1) Air pressure gauge
(2) Spark plug wrench
(3) 10/12 mm wrench
(4) Standard/Phillips screwdriver
(5) Screwdriver handle
(6) Tool bag
(7) Rubber band



⚠ WARNING

POTENTIAL HAZARD
Operating this ATV with improper modifications.

WHAT CAN HAPPEN
Improper installation of accessories or modification of this vehicle may cause changes in handling which in some situation 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 instructions. If you have questions, consult an authorized KYMCO dealer.

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PERIODIC MAINTENANCE/LUBRICATION

ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 months	6 months	6 months	1 year
Engine oil	• Replace (Warm engine before draining).	○		○	○	○
Oil strainer*	• Clean. • Replace if necessary.	○		○		○
Transmission oil	• Check oil level/oil leakage. • Replace every 12 months.	○				○
V-belt*	• Check operation. • Replace if damage or excessive wear.	○				○
Air filter element (for engine and V-belt compartment)	• Clean. • Replace if necessary.	Every 20~40 hours (More often in wet or dusty areas.)				
Brake*	• Check operation and brake fluid/cable. • Replace brake pads/shoes if necessary.	○	○	○	○	○
Battery*	• Check specific gravity. • Check breather hose for proper operation. • Correct if necessary.	○	○	○	○	○
Carburetor*	• Check idle speed/starter operation. • Adjust if necessary.		○	○	○	○
Cylinder head cover breather system*	• Check breather hose for cracks or damage. • Replace if necessary.			○	○	○
Drive chain	• Check and adjust slack/alignment/clean/lube.	○	○	○	○	○
Spark plug	• Check condition. • Adjust gap and clean. • Replace if necessary.	○	○	○	○	○
Fuel line*	• Check fuel hose for cracks or damage. • Replace if necessary.			○	○	○

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ITEM	ROUTINE	INITIAL			EVERY	
		1 month	3 months	6 months	6 months	1 year
Valves*	• Check valve clearance. • Adjust if necessary.	○		○	○	○
Exhaust system*	• Check leakage. • Retighten if necessary. • Replace gasket if necessary.			○	○	○
Wheels*	• Check balance/damage/runout. • Replace if necessary.	○		○	○	○
Wheel bearings*	• Check bearing assembly for looseness/damage. • Replace if damaged.	○		○	○	○
Steering system*	• Check operation. • Replace if damaged. • Check toe-in. • Adjust if necessary.	○	○	○	○	○
Knuckle shafts/ Steering shaft*	• Lubricate every 6 months.			○	○	○
Fittings and Fasteners*	• Check all chassis fittings and fasteners. • Correct if necessary.	○	○	○	○	○
Spark arresterl	• Clean			○	○	○

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

** : Lithium soap base grease.

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Engine oil

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 right side cover.

(1) Right side cover

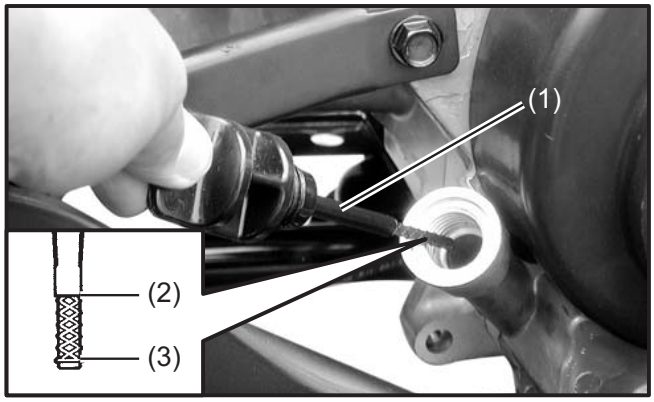
D. Remove the dipstick and wipe it off with a clean rag. Insert the dipstick in the filler hole without screwing it in.

NOTE:

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

E. Remove the dipstick and inspect the oil level.

F. The oil level should be between the maximum and minimum marks. If the level is low, add oil to raise it to the proper level.



(1) Dipstick/oil filler cap (2) Maximum level mark

(3) Minimum level mark

CAUTION:

Be sure no foreign material enters the crankcase.

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2-1. 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.
C. Place a container under the engine.
D. Remove the oil filler cap and oil filter cap to drain the oil.

(1) Oil filter cap

CAUTION:

- **Be sure no foreign material enters the crankcase.**
- **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 oil strainer.

Tightening torque:
Oil filter cap (engine):
14.7 Nm (1.5 m-kg, 10.6 ft-lb)

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H. Fill the engine with oil and install the oil filler cap.

Recommended oil: see page 131.
Oil quantity:
Engine oil:
Periodic oil change:
0.7 L (0.62 Imp qt, 0.74 US qt)
Total amount:
0.8 L (0.70 Imp qt, 0.84 US qt)

CAUTION:

Be sure no foreign material enters the crankcase.

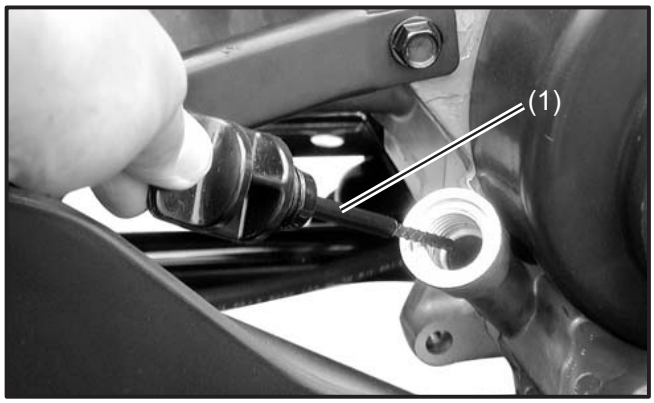
I. Warm up the engine for several minutes at idle speed. Check for oil leakage while warming up.

CAUTION:

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

2-2. Engine oil replacement

A. Place the machine on a level place.
B. Warm up the engine for several minutes and stop it.
C. Place a container under the engine.
D. Remove the oil filler cap and drain plug to drain the oil.



(1) Dipstick/oil filler cap

CAUTION:

Be sure no foreign material enters the crankcase.

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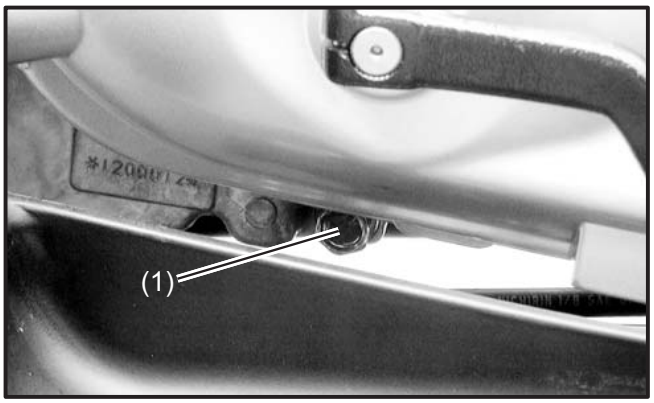

(1) Drain plug

Tightening torque:
Drain plug (engine):
30 Nm (3.0 m-kg, 21.6 ft-lb)

CAUTION:

Be sure no foreign material enters the crankcase.

Recommended oil: see page 131.

Oil quantity: see page 131.

E. Reinstall the drain plug and tighten the drain plug to specification.
F. Fill the engine with oil and install the oil filler cap.
G. Warm up the engine for several minutes at idle speed. Check for oil leakage while warming up.

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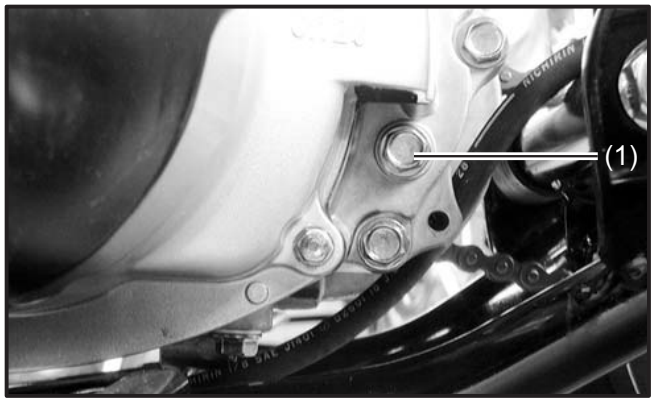
Transmission oil

1. Transmission oil measurement
   A. Place the machine on a level place.
   B. Remove the oil filler bolt and check the oil level. It should be up to the brim of the hole. If the level is low, add oil to raise it to the proper level.
   C. Reinstall the oil filler bolt and tighten to specification.

Tightening torque
Oil filler bolt:
15 Nm (1.5 m-kg, 11 ft-lb)



(1) Oil filler bolt/measurement hole

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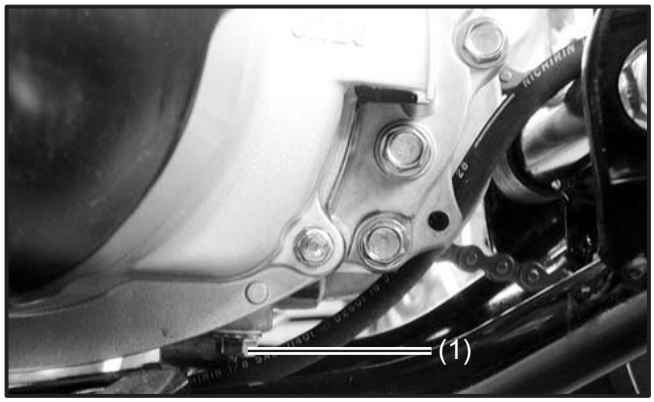
2. Transmission oil replacement
   A. Place the machine on a level place.
   B. Place a container under the engine.
   C. Remove the oil filler bolt and drain plug to drain the oil.
   D. Reinstall the drain plug and tighten to Specification.

Tightening torque
Drain plug:
15 Nm (1.5 m-kg, 11 ft-lb)



(1) Drain plug

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E. Fill the engine with oil and install the oil filler bolt.

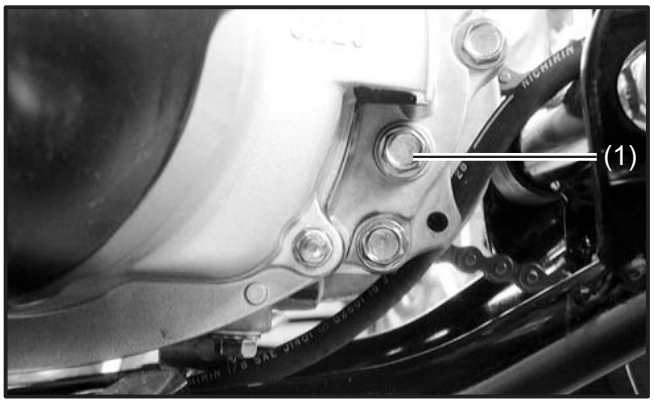
Recommended oil : See page 131
Oil quantity:
Periodic oil change:
0.11 L (0.10 Imp qt, 0.12 US qt)
Total amount:
0.12 L (0.11 Imp qt, 0.13 US qt)

CAUTION:

Be sure no foreign material enters the crankcase.

Tightening torque
Oil filler bolt:
15 Nm (1.5 m-kg, 11 ft-lb)

F. Start the engine and warm 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.



(1) Oil filler bolt

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Spark plug inspection

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

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

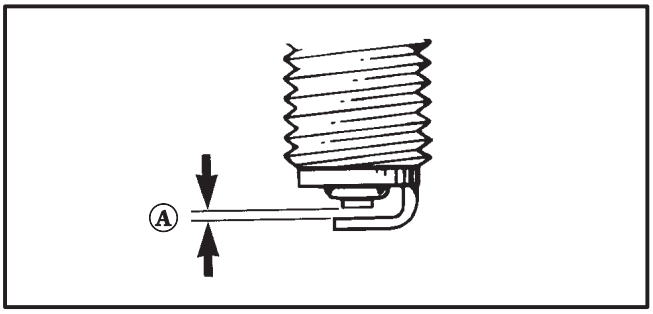
You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode.

If electrode erosion becomes excessive, you should replace the spark plug with one of the proper type.

Standard spark plug:
NGK CR7HSA

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 any grime from the threads and tighten to the specified torque.

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

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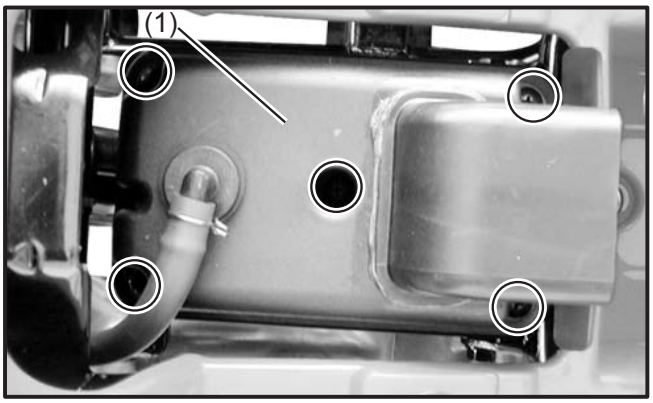
Air filter cleaning

The air cleaner accumulates dust and must be cleaned periodically. If the ATV is ridden in dusty areas, the air cleaner must be cleaned at more frequent intervals than specified in the Maintenance Schedule. If the ATV is submerged in water, the air cleaner should be checked and water should be drained from the air cleaner housing before starting the engine.

To clean the air cleaner:

1. Remove the seat. (See page 32.)
2. Remove the air filter case cover.



(1) Air filter case cover

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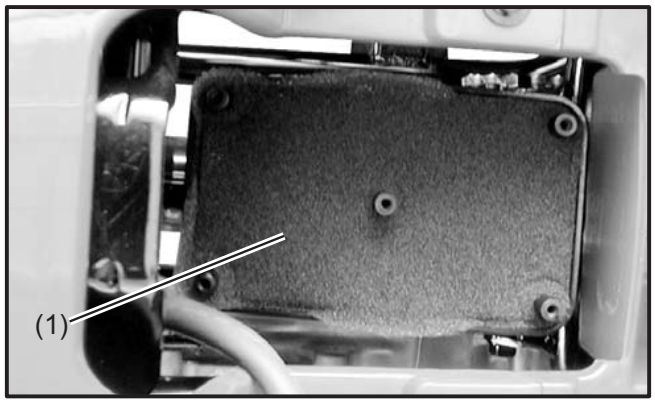
3. Remove the air filter element, and separate it from the box.



(1) Air filter element

4. Wash the element gently but thoroughly in solvent.

⚠ WARNING

POTENTIAL HAZARD
Using low flash point solvents or gasoline to clean the air filter element.

WHAT CAN HAPPEN
Low flash point solvents or gasoline can catch fire or explode.

HOW TO AVOID THE HAZARD
Use parts cleaning solvent to clean the air filter element.

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

CAUTION:

Do not twist the filter element when squeezing it.

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6. Inspect the element. If damaged, replace it.
7. Apply quality foam air filter oil to the element. If foam air filter oil is not available, motor oil may be used.

NOTE:

The element should be wet but not dripping.

8. Reinstall the element to the air filter case.
9. Reinstall the element assembly and parts removed for access.

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.

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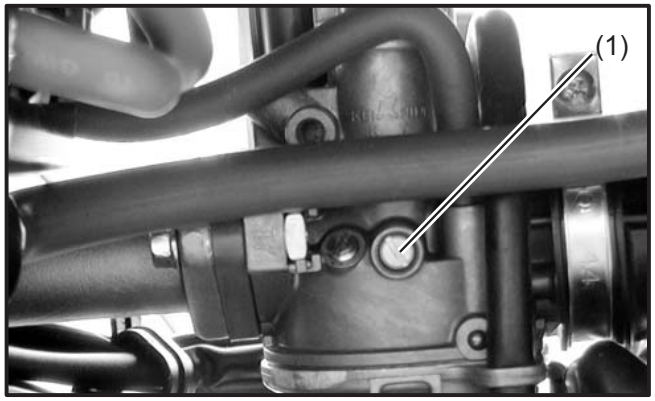
Idle speed adjustment

NOTE:

A diagnostic tachometer must be used for this procedure.

1. 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.
2. 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 idle speed:
1,700 r/min



(1) Throttle stop screw

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Throttle lever adjustment

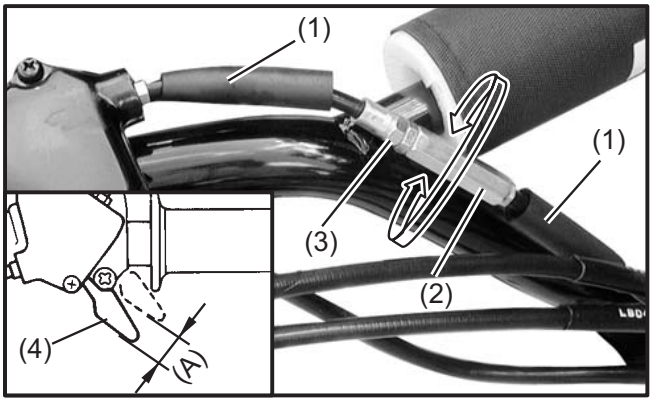
NOTE:
Adjust the engine idling speed before adjusting the throttle lever free play.

To adjust throttle free play:

1. Slide the rubber sleeves back to expose the throttle cable adjuster.
2. Loosen the lock nut, then turn the adjuster to obtain the correct free play. (3~5 mm or 0.12~0.2 in)
3. Tighten the locknut and reinstall the sleeve.

Other checks:

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



(1) Rubber sleeve (2) Cable adjuster
(3) Locknut (4) Throttle lever
(A) 3~5 mm (0.12~0.2 in)

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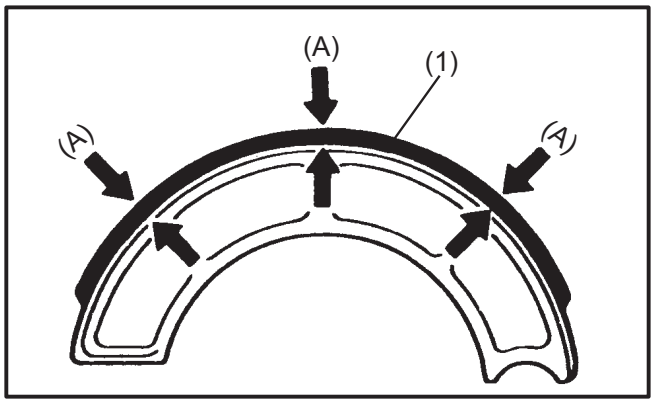
Front brake shoe inspection

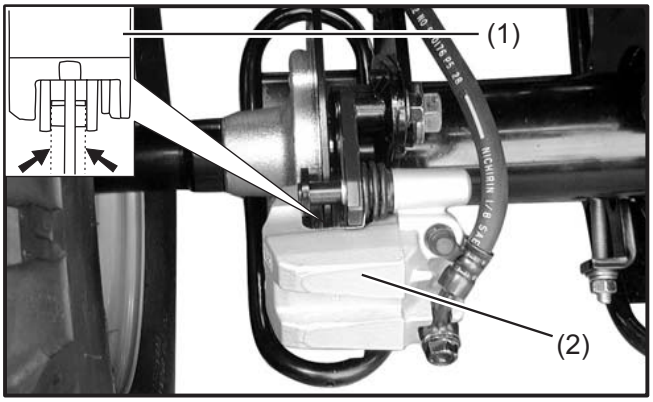
The checking of brake shoe wear will disassemble the brake. If the lining thickness below to the wear limit 2.0mm (0.08in), to replace the shoes as a set. These procedures should be performed by KYMCO dealer.



(1) Lining (A) Lining thickness

Rear brake pads inspection

A wear indicator is provided on each brake. The indicators allows checking of brake pads wear. Check the position of the indicator. If the indicator reaches the wear limit line, ask a KYMCO dealer to replace the pads.



(1) Wear indicator (2) Rear brake

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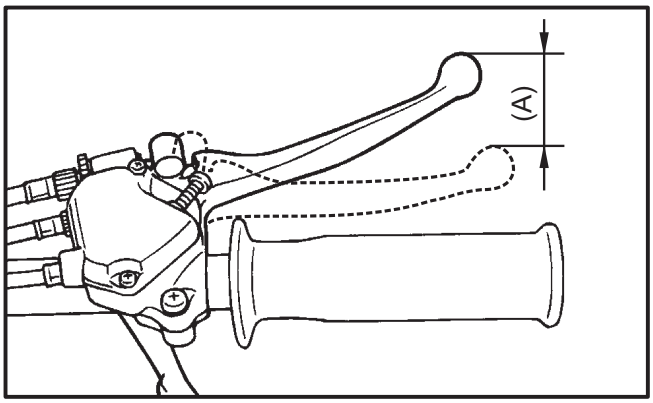
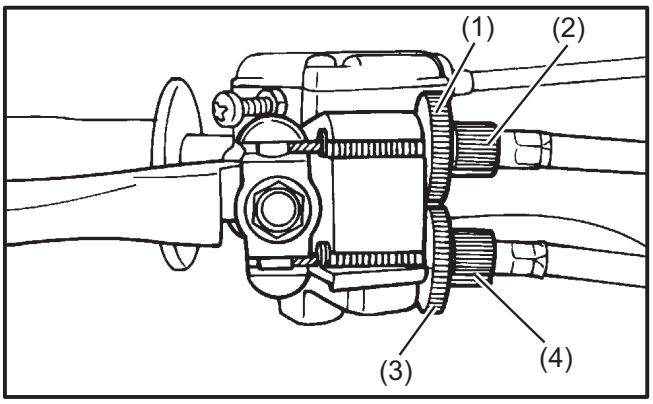
Front brake lever free play adjustment

The front brake lever free play should be adjusted to 10~20 mm (0.4~0.8 in) at the tip of the brake lever. 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
(3) Lower locknut
(4) Lower adjusting bolt

2. Loosen the lower locknut.
3. 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.

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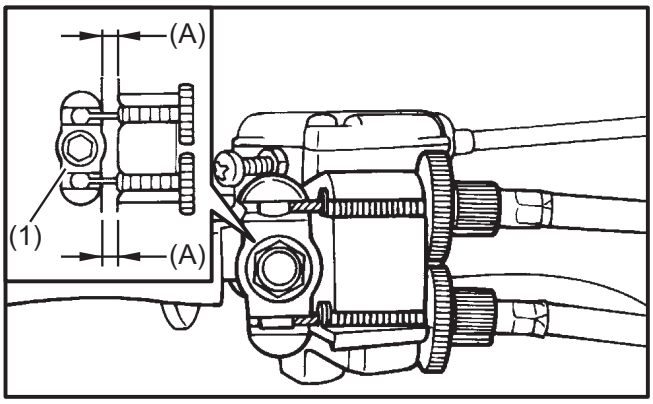
5. While applying the front brake, turn out the upper adjusting bolt until the upper and lower cable lengths are equal. The cable joint will become vertical.



(1) Cable joint (A) Cable length

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 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 KYMCO dealer.

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Brake fluid inspection

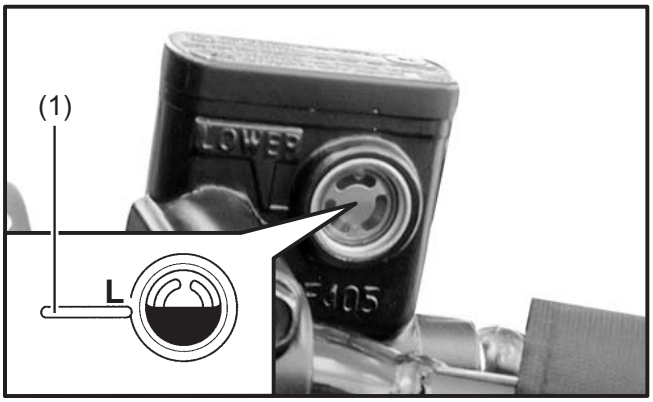
Check if the fluid level is below the lower level mark through the inspection window.

⚠ WARNING

POTENTIAL HAZARD
Brake fluid contacting the skink or eyes.

WHAT CAN HAPPEN
May cause irritation.

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



(1) Lower level mark (Hand Brake lever)

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NOTE:

- As the brake pads wear, brake fluid level drops, automatically compensating for wear. There are no adjustments to perform, but fluid level and pad wear must be inspected periodically. The system must be inspected frequently to ensure there are no fluid leaks.
- If the brake lever travel become excessive and the brake pads are not worn beyond the recommended limit (page 109), There is probably air in the brake system and it must be bled. See your authorized KYMCO dealer for this service.

CAUTION:

- To prevent damage to the brake system, use only fluid from a sealed container. Never allow contaminants (dirt, water, etc.) to enter the brake fluid reservoir.
- Brake fluid can damage paint and plastic, so handle the fluid with care. When adding brake fluid, be sure the reservoir is horizontal before removing the cover to prevent accidental spilling.
- Use only DOT 4 brake fluid from a sealed container.

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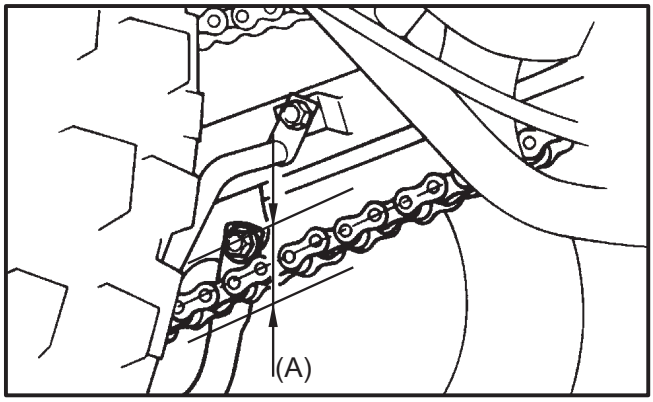
Drive chain slack check

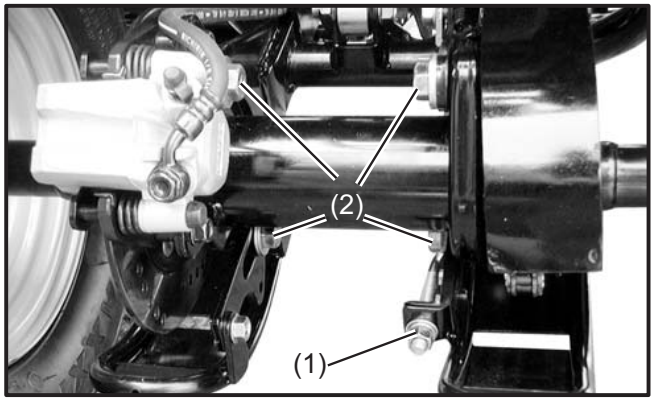
Inspect the drive chain while all tires are touching the ground. Check the slack at the position shown in the figure. The normal vertical deflection is approximately 10~20 mm (0.4~0.8in). If the deflection exceeds 20 mm (0.8 in), adjust the chain slack.



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

Drive chain slack adjustment

1.Loosen the upper and lower axle holding bolts.



(1) Hub stopper nut (2) Axle holding bolt x 4

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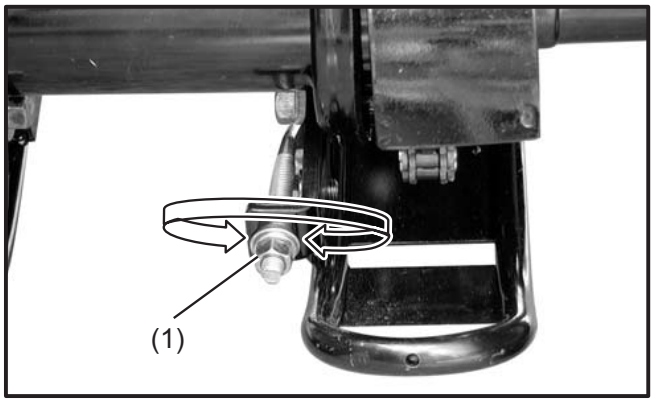
2. Turn the adjusting nut, to decrease or increase chain slack.



(1) Adjust nut

3. Retighten the upper and lower axle holding bolts.

Tightening torque:

Axle holding bolts (upper):
70 Nm (7.0 m-kg, 48 ft-lb)

CAUTION:

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

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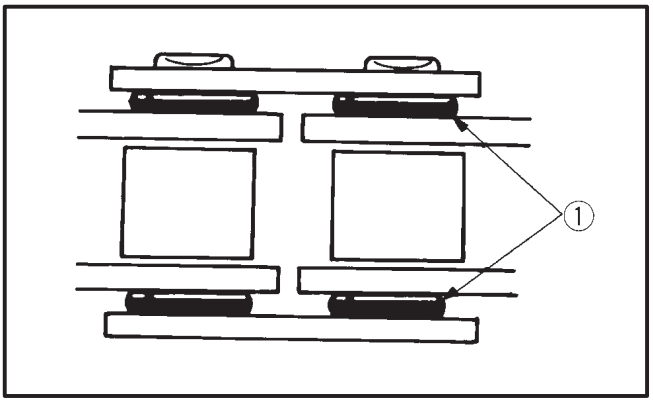
Drive chain cleaning and lubrication

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 clean 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

Cable inspection and lubrication

⚠ WARNING

POTENTIAL HAZARD
Damaged control cables.

WHAT CAN HAPPEN
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.

Recommended lubricant:
KYMCO chain and cable lube or
SAE 10W40 motor oil

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Brake lever lubrication

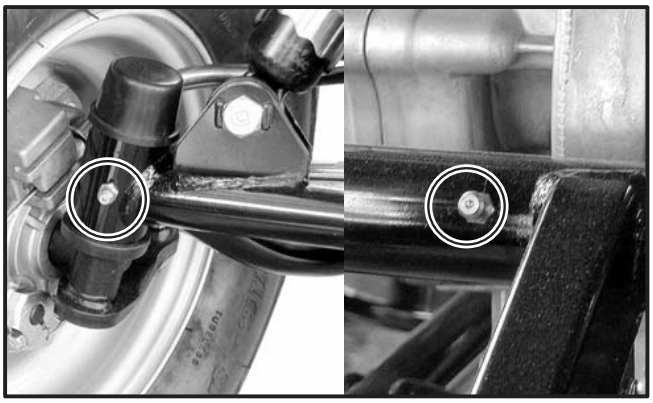
Lubricate the pivoting parts of the brake levers.

Recommended lubricant:
Lithium-soap-based grease
(All-purpose grease)

Knuckle shaft and rear fork shaft lubrication

Lubricate the pivot points using a grease gun.

Recommended lubricant:
Lithium-soap-based grease



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

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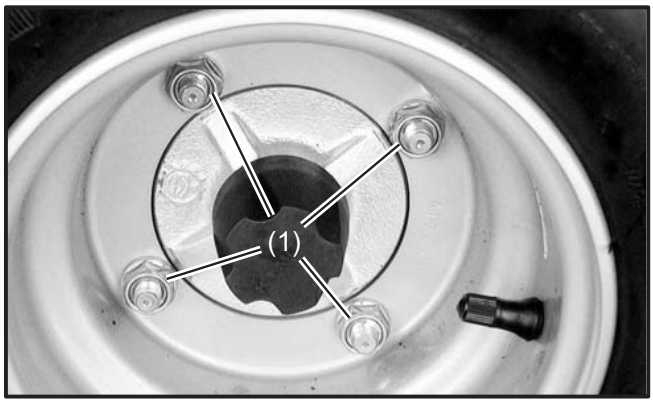
Wheel removal

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

Wheel nut torque:
Front: 40 Nm (4.0 m-kg, 30 ft-lb)
Rear: 40 Nm (4.0 m-kg, 30 ft-lb)



(1) Safe nut

Wheel installation

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

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Battery

Your ATV battery is located in a compartment under the seat. The battery is sealed, so it is not necessary to check the electrolyte level or add distilled water. If the battery seems weak, see your authorized KYMCO dealer for information on recharging or replacement. If you replace the battery, choose one that is sealed and equivalent to the original. Be sure to read and follow all safety precautions indicated on the battery.

CAUTION:

- Do not attempt to remove the caps from the battery cells as this may damage the battery.
- Although the battery is sealed, it vents explosive gases and should be handled with appropriate care.

⚠ WARNING

POTENTIAL HAZARD
Allowing open flames or sparks near the battery.

WHAT CAN HAPPEN
Gases may explode and possibly cause injury.

HOW TO AVOID THE HAZARD
Do not allow open flames or sparks near the battery.

NOTE:

- When the ATV is to be stored for an extended period, remove the battery from the vehicle and charge it fully. Then store it in a cool, dry place. If the battery is to be left on the vehicle, disconnect the negative cable from the battery terminal.
- Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**

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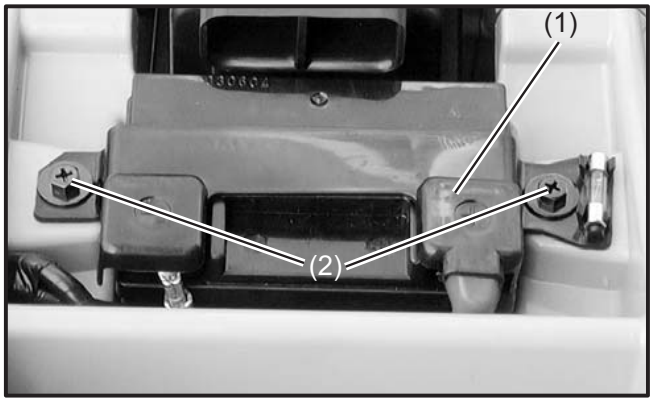
Battery remove

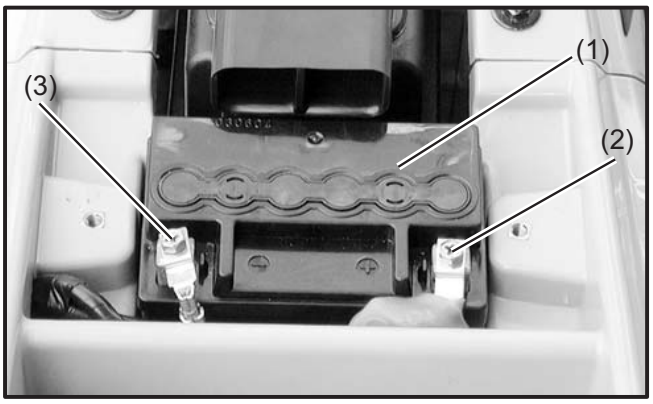
1. Make sure the ignition switch is OFF.
2. Remove the seat (page 32)
3. Remove the battery cover, by removing the mount bolts.
4. Disconnect the negative (-) terminal lead from the battery first, then disconnect the positive (+) terminal lead.
5. Remove the battery.



(1) Battery cover (2) Mount bolt

Battery installation

1. Install in the reverse order of removal.
2. Check all bolts and other fasteners are secure.
3. After installing the battery, check to see if the battery cables are routed correctly.



(1) Battery
(2) Positive (+) terminal lead
(3) Negative (-) terminal lead

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Fuse replacement
When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your authorized KYMCO dealer for repair.

CAUTION:

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

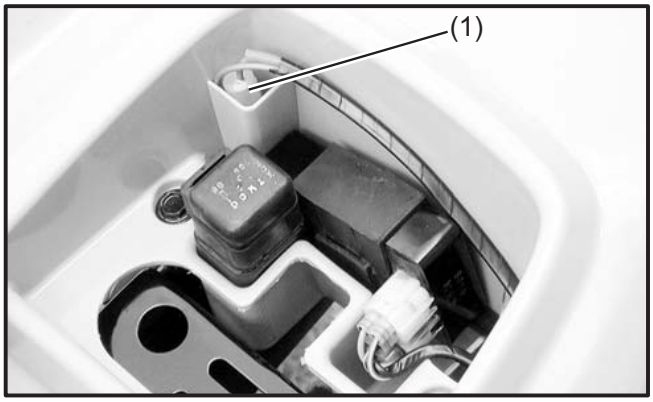
⚠ WARNING

POTENTIAL HAZARD
Using an improper fuse.

WHAT CAN HAPPEN
An improper fuse can cause damage to the electrical system which could lead to a fire.

HOW TO AVOID THE HAZARD
Always use a fuse of the specified rating.
Never use a material in place of the proper fuse.

Fuse holder:
The fuse holder is located in the storage box under the seat.
The specified fuses are: 7A



(1) Fuse holder

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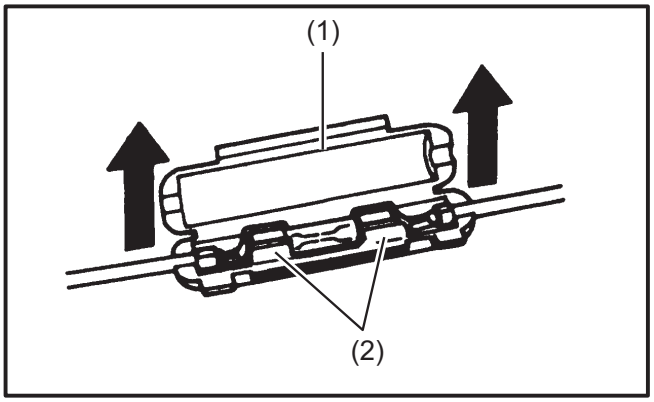
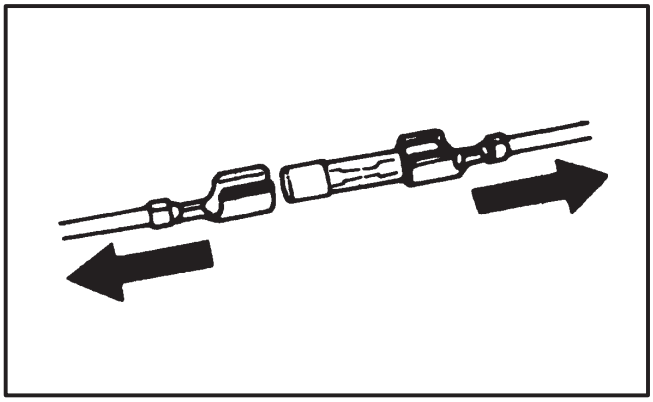
1. Lift the seat. (See page 32)
2. Open the fuse holders and lift out the fuse with the clips.



(1) Fuse holder (2) Clip

3. Slide the old fuse out of the clips and discard it.



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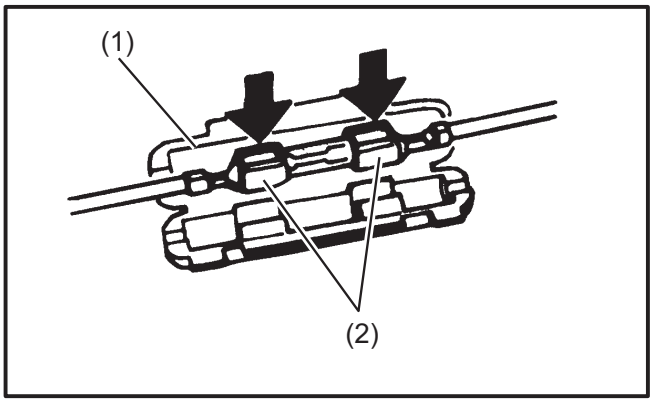
Spark arrester cleaning (see page 139~140)

4. Slide the clips onto the ends of the new fuse, push them back into the fuse holder, and close the fuse holder.
   The spare fuse is on the battery cover.



(1) Fuse holder (2) Clip

CAUTION:

- Do not pry the clips open to get a fuse out; you could bend them and cause poor contact with the new fuse. A loose fuse could cause damage to the electrical system and even start a fire.
- After replacing the fuse, be sure return the fuse holder to its original location.

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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

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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

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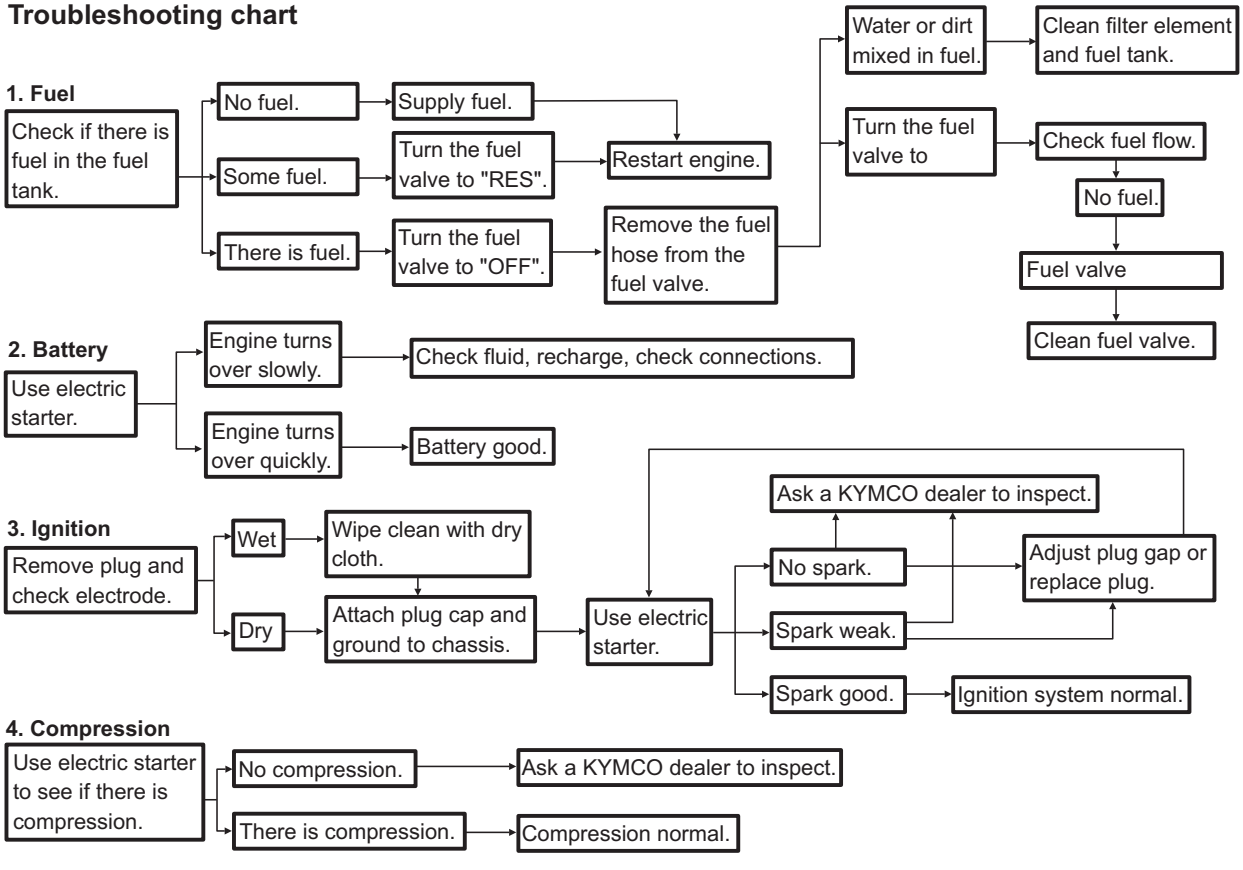
Troubleshooting chart



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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 water entry. A plastic bag and strong rubber band may be used.
   B. Make sure the spark plug and all filler caps are properly installed.
2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets or wheel axles.
3. Rinse the dirt and degreaser off 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.
5. Rinse the machine off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbent cloth.
6. Dry the chain and lubricate it to prevent rust.

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7. 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 mar the paint or protective finish.

When finished, start the engine and let it

⚠ WARNING

POTENTIAL HAZARD

Operation with wet brakes 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. Apply the brakes several times at slow speeds to let friction dry out the linings.

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B. STORAGE

Before storing your ATV for an extended time, be sure you thoroughly check the vehicle for needed repairs and have them corrected. Otherwise, the repairs may be forgotten by the time you remove the vehicle from storage.

In addition, extended storage requires that you take the following steps to reduce the effects of deterioration from non-use of the vehicle:

1. Change the engine oil.
2. Drain the fuel tank and carburetor. Be sure to drain the fuel in a well-ventilated area, not in a garage.

⚠ WARNING

POTENTIAL HAZARD
Refueling this ATV or handling fuel improperly.

WHAT CAN HAPPEN
The fuel could explode or ignite.

HOW TO AVOID THE HAZARD
Always refuel this ATV and handle fuel in a well-ventilated area with the engine off.Do not smoke or allow flames or sparks in the area where fuel is handled.

Do not overfill the tank. Be careful not to spill fuel when refueling. After refueling, make sure the fuel fill cap is closed properly and securely.

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

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⚠ WARNING

POTENTIAL HAZARD
Prolonged contact of fuel with the skin.
Breathing fuel vapor.

WHAT CAN HAPPEN
The fuel can cause skin irritation.
Fuel vapor could cause lung damage.

HOW TO AVOID THE HAZARD
Avoid repeated or prolonged contact of fuel with the skin or breathing of fuel vapor.

KEEP OUT OF REACH OF CHILDREN.

3. Remove the spark plug and pour one tablespoon (15 - 20 cc)of clean engine oil into the cylinder. Operate the starter for a few seconds to distribute the oil, then reinstall the spark plug, (Make sure the engine stop switch is OFF (⊗) before pressing the starter button.)

4. Remove the battery (page 120) And store it in an area protected from freezing temperatures and direct sunlight and out of the reach of children, slow charge the battery once a month.

⚠ WARNING

POTENTIAL HAZARD
Allowing open flames or sparks near the battery.

WHAT CAN HAPPEN
Gases may explode and possibly cause injury.

HOW TO AVOID THE HAZARD
Do not allow open flames or sparks near the battery.

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

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SPECIFICATIONS

Model	Mongoose 90
Dimension:	
Overall length	1430 mm (56.2 in)
Overall width	905 mm (35.6 in)
Overall height	910 mm (35.8 in)
Seat height	650 mm (25.5 in)
Wheel base	965 mm (37.9 in)
Minimum ground clearance	104 mm (4.1 in)
Basic weight:	
With oil and full fuel tank	120kg (264 lbs)
Engine:	
Type	Air cooled 4-stroke, OHC
Cylinder arrangement:	Single cylinder
Displacement	89.9 cm^3
Bore x stroke	47X51.8
Compression ratio	10.0:1
Starting system	Electric starter and kick startet
Lubrication system:	Wet sump

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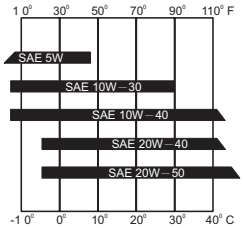
Model	Mongoose 90
Engine oil/transmission oil:	
Type	
Recommended engine oil classification:	 API Service SE, SF, SG type or higher
Recommended transmission Oil classification:	SAE#90
Quantity	
Engine oil:	
Periodic oil change	0.7 L (0.62 Imp qt, 0.74 US qt)
Total amount	0.8 L (0.70 Imp qt, 0.84 US qt)
Transmission oil:	
Periodic oil change	0.11 L (0.10 Imp qt, 0.12 US qt)
Total amount	0.12 L (0.11 Imp qt, 0.13 US qt)

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Model	Mongoose 90
Air filter: for engine for V-belt compartment	 Wet type element Dry type element
Fuel: Type Tank capacity Reserve amount	 UNLEADED FUEL 5.5 L (1.16 Imp gal, 1.40 US gal) 1.5 L (0.32 Imp gal, 0.38 US gal)
Carburetor: Type	 PB
Spark plug: Type Gap	 NGK CR7HSA 0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
Clutch: Type	Dry, centrifugal automatic
Brake: Front brake type Operation Rear brake type Operation	 Drum brake Right hand operation Disk brake Left hand operation

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Model	Mongoose 90
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, 4AH
Tire: Type Size: Front Rear	 Tubeless 18X7-8 18X9-8
Bulb voltage, wattage*quantity: Taillight	 12V5W X1

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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 THE ACTS LISTED BELOW".

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

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

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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				
3Months				
6Months				
12Months				
18Months				
24Months				
30Months				
36Months				
42Months				
48Months				
54Months				
60Months				

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INDEX

Page

A

Accessories.....48, 54
AGE RECOMMENDATION.....A
Air filter cleaning 104

B

Brake fluid inspection.....112
Brake lever lubrication.....117
Battery.....119

C

Cable inspection and lubrication..... 116
Chain..... 39
CLEANING..... 126
CLIMBING UPHILL.....77
CONTENTS..... E
CONTROL FUNCTIONS..... 20
CROSSING A SLOPE.....85
CROSSING THROUGH
SHALLOW WATER 88

Page

D

Draining the V-belt compartment.....117
Drive chain cleaning and lubrication 116
Drive chain slack adjustment..... 114
Drive chain slack check 114
During operation..... 62

E

Engine break-in.....45
Engine and transmission oil 38
Engine oil 96
Engine stop switch.....21
Exhaust system.....68

(Cont'd)

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Page

F

Fittings and fasteners..... 39
Flag pole bracket.....33
Frame and engine serial number 16
Front brake 27
Front brake lever free play adjustment 110
Front brake shoe inspection.....109
Fuel..... 36
Fuse replacement.....121
Fuel tank cap..... 29
Fuel valve.....30

H

Handlebar switches 21
Headlight switch.....22

Page

I

Idle speed adjustment 107
Ignition switch.....20
IMPORTANT NOTICES..... A

K

Key identification number 15
Kick starter 23
Knuckle shaft and rear fork
Shaft lubrication.....117

L

Lights.....39

M

Model code.....16
Mongoose
Reverseversion.....142

(Cont'd)

Downloaded from www.Manualslib.com manuals search engine

Page

N

No Modifications..... 55

O

OPERATION 43

P

PARKING 46, 89
Parking brake.....28
Parking on a slope 47
Parts location.....17
PERIODIC MAINTENANCE/
LUBRICATION 94
PERIODIC MAINTENANCE AND
ADJUSTMENT..... 92
PREFACE ..... D
PRE-OPERATION CHECKS.....34, 52

Page

R

Rear brake.....27
Rear brake pads inspection.....109
Remote engine stop switch 24
RIDING DOWNHILL.....83
RIDING OVER ROUGH TERRAIN 87
Riding Your ATV.....49

S

SAFETY INFORMATION.....4
Seat 32
SLIDING AND SKIDDING.....75
Spark arrester cleaning.....123,140
Spark plug inspection.....103
SPECIAL MESSAGES C
SPECIFICATIONS 130
Speed limiter.....26,63
Starter button 22
Starting engine 43
STORAGE..... 128
Storage compartment..... 33
Switches.....39

(Cont'd)

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Page

T

Throttle lever..... 25, 39
Throttle lever adjustment.....108
Tires..... 40
Tire wear limit..... 42
Tool kit.....92
Transmission oil 100
Troubleshooting 124
Troubleshooting chart 125
TURNING YOUR ATV.....73

V

Valve clearance adjustment..... 106

W

Warning information 2
Wheel installation.....118
Wheel removal..... 118
Weight limits 53

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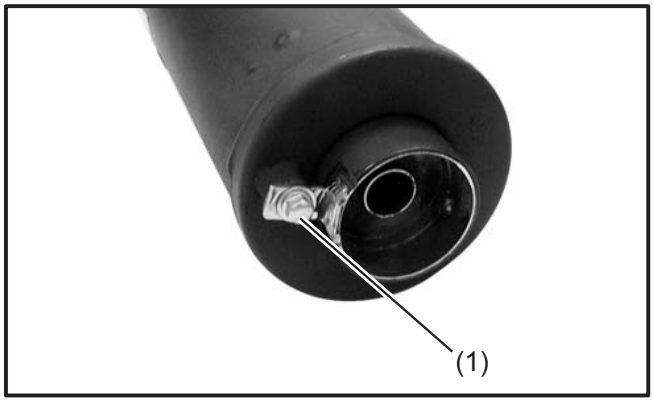
Spark arrester cleaning

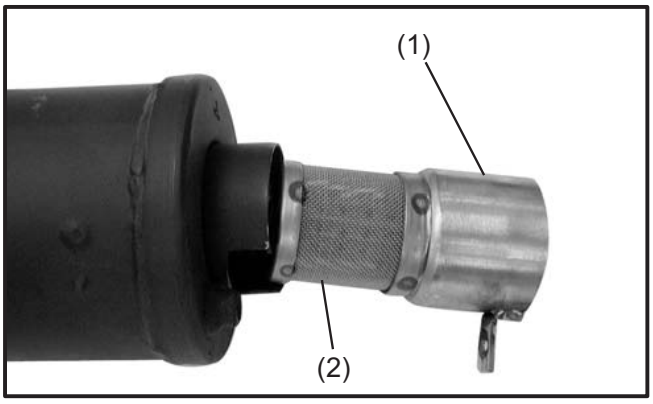
Be sure the exhaust pipe and muffler are cool before cleaning the spark arrester.

1. Remove the bolt.



(1) Bolt

2. Remove the tailpipe by pulling it out of the muffler.
3. Tap the tailpipe lightly, then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe.



(1) Tailpipe (2) Spark arrester

4. Insert the tailpipe into the muffler and align the screw holes.
5. Install the bolt and tighten it.

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⚠ WARNING

POTENTIAL HAZARD

Improper cleaning of the spark arrester.

WHAT CAN HAPPEN

Could injure the eyes.

Could cause burns.

Could cause carbon monoxide poisoning, possibly leading to death.

Could start a fire.

HOW TO AVOID THE HAZARD

When cleaning the spark arrester:

Always let the exhaust system cool prior to touching exhaust components.

Do not start the engine when cleaning the exhaust system.

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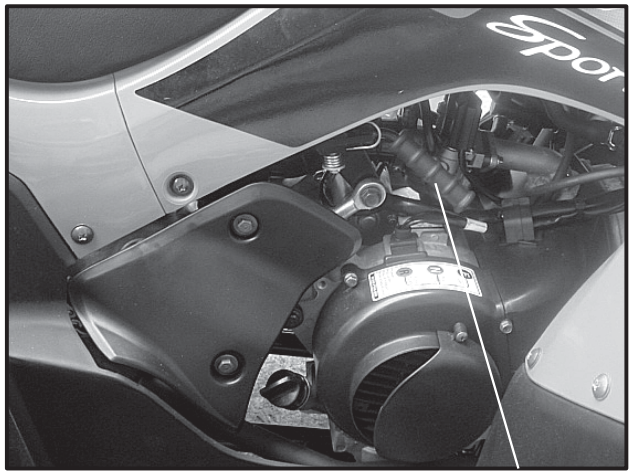
Mongoose 90 reverse version

The ATV version has a gear selector

1.**F**-Forward gear

2.**N**-Neutral gear

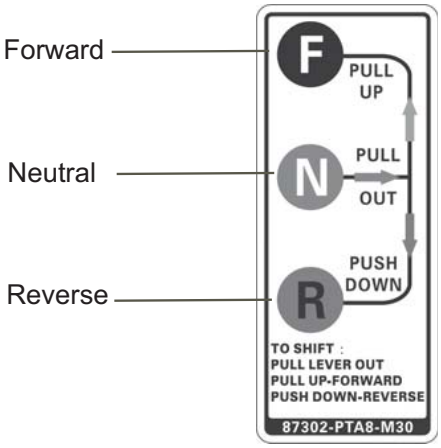
3.**R**-Reverse gear



⚠ WARNING

To change gears, stop the vehicle and with the engine idling, move the lever to the desired gear.

Do not attempt to shift gears with engine speed above idle or while the vehicle is moving.



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Shift lever 1

1.To shift into forward gear pull out and upward on the shift lever until the transmission engages in the forward gear.②

②

2.To shift into reverse gear pull out and push downward on the shift lever until the transmission engages the reverse Gear③ . When in the with the ignition switch in the **ON** position the reverse Indicator light will illuminate.④

③

④

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Shift lever 2

1.To shift into neutral from either for-ward or reverse gear ,push or pull the lever to the center position. ⑤
When in the neutral with the ignition switch in the on position the neutral indicator light will illuminate.⑥

CAUTION:

A**lways come to a complete stop with engine at idle before moving the shift lever changing gears while moving or shifting from neutral with the engine above idle could.**

Cause sudden change of direction res-ult in loss of control or being thrown from the ATV cause severe inj-ury or death.

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SPECIFICATIONS

Model	Mongoose 90 Reverse
Dimension:	
Overall length	1440 mm (57.6 in)
Overall width	905 mm (35.6 in)
Overall height	925 mm (37.0 in)
Seat height	650 mm (25.5 in)
Wheel base	965 mm (37.9 in)
Fra.Minimum ground clearance	150 mm (6.0 in)
RR.Minimum ground clearance	100 mm (4.0 in)
Basic weight:	
With oil and full fuel tank	123kg (270.6 lbs)
Engine:	
Type	Air cooled 4-stroke, OHC
Cylinder arrangement:	Single cylinder
Displacement	89.9 cm^3
Bore x stroke	47X51.8
Compression ratio	10.0:1
Starting system	Electric starter and kick
Lubrication system:	Wet sump

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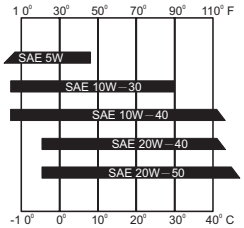
Model	Mongoose 90 Reverse
Engine oil/transmission oil:	
Type	
Recommended engine oil classification:	 API Service SE, SF, SG type or higher
Recommended transmission Oil classification:	SAE#90
Quantity	
Engine oil:	
Periodic oil change	0.7 L (0.62 Imp qt, 0.74 US qt)
Total amount	0.8 L (0.70 Imp qt, 0.84 US qt)
Transmission oil:	
Periodic oil change	0.25 L (0.22 Imp qt, 0.265 US qt)
Total amount	0.30 L (0.26 Imp qt, 0.318 US qt)

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Model	Mongoose 90 Reverse
Air filter: for engine for V-belt compartment	 Wet type element Dry type element
Fuel: Type Tank capacity Reserve amount	 UNLEADED FUEL 5.3 L (1.11 Imp gal, 1.38 US gal) 1.5 L (0.32 Imp gal, 0.38 US gal)
Carburetor: Type	 PTE (Auto Bystarter)
Spark plug: Type Gap	 NGK CR7HSA 0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
Clutch: Type	Dry, centrifugal automatic
Brake: Front brake type Operation Rear brake type Operation	 Drum brake Right hand operation Disk brake Left hand operation

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Model	Mongoose 90 Reverse
Suspension: Front Rear	 Single A-arm 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, 4AH
Tire: Type Size: Front Rear	 Tubeless 18X7-8 18X9-8
Bulb voltage, wattage*quantity: Taillight	 12V5W X1

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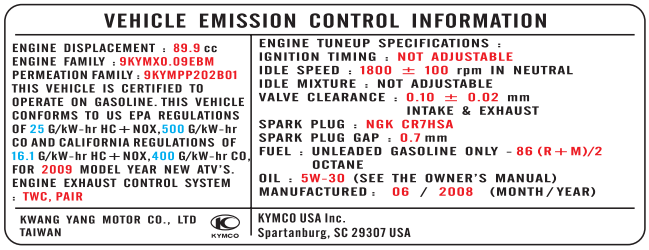
KYMCO 90CC EPA HANGTAG FOR 2009 MODEL

KYMCO 90CC EPA DECAL FOR 2009 MODEL



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T200-LE20AA-US-A5

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Do not remove this Owner's Manual from the vehicle. Read this manual carefully before operating the vehicle as it contains important safety information.

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