

READ THIS MANUAL CAREFULLY! It contains important safety information.

OWNER'S MANUAL

80 YFM80GW

2D3-28199-13



LIT-11626-20-06

This ATV should not be ridden by anyone under 12 years of age.

EBU17091

AWARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

YAMAHA

LIT-CALIF-65-01

INTRODUCTION

EBU17240

Congratulations on your purchase of the Yamaha YFM80GW. This ATV represents the result of many years of Yamaha experience in the production of fine sporting, touring, and pacesetting racing machines. With the purchase of this Yamaha, you can now appreciate the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

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

AN IMPORTANT SAFETY MESSAGE:

- READ THIS MANUAL TOGETHER WITH TIPS FOR THE ATV RIDER CAREFULLY AND COMPLETE-LY BEFORE OPERATING YOUR ATV. MAKE SURE YOU UNDERSTAND ALL INSTRUCTIONS.
- PAY CLOSE ATTENTION TO THE WARNING AND CAUTION LABELS ON THE ATV.
- NEVER OPERATE AN ATV WITHOUT PROPER TRAINING OR INSTRUCTION. FREE TRAINING IS AVAILABLE TO ANYONE WHO BUYS A NEW ATV. CALL 1-800-887-2887 FOR MORE INFORMATION.
- THIS ATV, AND ANY OTHER ATV OVER 70 cc, SHOULD NOT BE OPERATED BY A CHILD UNDER 12 YEARS OF AGE.

AN IMPORTANT NOTE TO PARENTS:

This ATV is not a toy. Before you let your child ride this ATV, you should understand the instructions and warnings in this Owner's Manual. Then be sure your child understands and will follow them. Children differ

in skills, physical abilities and judgment. 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.

Your ATV was delivered with an adjustable speed limiter and also with an air intake restrictor plate. Yamaha recommends that all beginners start off with the speed limiter screw turned in and the air intake restrictor plate installed to limit the amount of speed available while they learn. The limiter screw may be gradually turned out to increase maximum speed as the beginner becomes more familiar with operating the ATV. Parents should decide when to adjust the ATV for more power as their youngster's riding skills improve. Once the ATV rider can operate with skill at the top speed permitted by adjusting the speed limiter alone, the air intake restrictor plate can be removed. Since removal of this plate will result in a significant increase in power, turn the speed limiter back in again; adjust it out in stages as you did before.

If your child is a beginner or is inexperienced, he or she should take a training course. See the previous page for information about the free training available to purchasers of new ATVs.

EBU17330

IMPORTANT MANUAL INFORMATION

EBU17341

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

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

	SAFETY IS INVOLVED!
	Failure to follow WARNING instructions <u>could result in severe injury</u> or death to the ATV operator, a bystander, or a person inspecting or repairing the ATV.
CAUTION:	A CAUTION indicates special precautions that must be taken to avoid damage to the ATV.
NOTE:	A NOTE provides key information to make procedures easier or clearer.

* Product and specifications are subject to change without notice.

EBU17350

IMPORTANT NOTICE

EBU17360

Welcome to the Yamaha world of motor sports!

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

This ATV complies with all applicable OFF-ROAD noise level and spark arrester laws and regulations in effect at the time of manufacture.

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

EBU17381

AFFIX DEALER

LABEL HERE

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WARNING

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

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SAFETY INFORMATION

EBU17601

AN ATV IS NOT A TOY AND CAN BE HAZARD-

OUS TO OPERATE. An ATV handles differently from other vehicles, including motorcycles and cars. A collision or rollover 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. <u>Take a Training Course</u>. Beginners should receive training from a certified instructor. Contact an authorized ATV dealer or call 1-800-887-2887 to find out about the training courses nearest you.
- Always follow the age recommendation:
 - A child under 12 years old should never oper-

ate an ATV with engine size greater than 70 cc. – A child under 16 years old should never operate an ATV with engine size greater than 90 cc.

- Never allow a child under age 16 to operate an ATV without adult supervision, and never allow continued use of an ATV by a child if he or she does not have the abilities to operate it safely.
- Never carry a passenger on an ATV.
- Always avoid operating an 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 properly. You should also wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or a jacket, and long pants.
- Never consume alcohol or drugs before or while operating this ATV.
- Never operate at speeds too fast for your skills

1

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

- Never attempt wheelies, jumps, or other stunts.
- 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 footrests 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.
- 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 and never turn at excessive speeds.
- 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 or make sudden gear changes. 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 a hill at an angle that would cause the vehicle to lean sharply to one side. Go straight down the hill where possible.
- Always follow proper procedures for crossing the side of a hill as described in this manual. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you have mastered the turning technique described in this manual on level ground. Avoid crossing the side of a steep hill if possible.
- Always use proper procedures if you stall or roll

1

backwards when climbing a hill. To avoid stalling, use the proper gear and 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 of tires specified in this manual.
- Always maintain proper tire pressure as described in this manual.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for an ATV. Cargo should be properly distributed and securely attached. Reduce speed and follow instructions in this manual for carrying cargo or pulling a trailer. Allow greater distance for braking.

FOR MORE INFORMATION ABOUT ATV SAFE-

TY, call the Consumer Products Safety Commission at 1-800-638-2772, or the ATV Distributor's Safety Hotline at 1-800-852-5344.

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 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 ATV 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, seek medical help immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.



EWB00030

A 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 ATV in an area with adequate ventilation.

LOCATION OF THE WARNING AND SPECIFICATION LABELS



EBU17670

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

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







6			
	NEVER sit here.		
(3MX-24875-A0		

DESCRIPTION





- 1. Fuel cock
- 2. Rear carrier
- 3. Rear wheel
- 4. Footboard
- 5. Shift pedal
- 6. Choke
- 7. Front wheel

EBU17700 Right view



- 1. Spark arrester
- 2. Seat
- 3. Panel
- 4. Brake pedal
- 5. Footboard

Controls and instruments

from the figures shown in this manual.



- 1. Rear brake lever
- 2. Parking brake
- 3. Neutral indicator light
- 4. Front brake lever
- 5. Throttle lever
- 6. Main switch
- 7. Fuel tank cap
- 8. Handlebar switches

NOTE:

The ATV you have purchased may differ slightly

INSTRUMENT AND CONTROL FUNCTIONS

EWB00010



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

Main switch

The positions of the main switch are as follows:

ON

All electrical systems are supplied with power, and the engine can be started. The key cannot be removed.

OFF

All electrical systems are off. The key can be removed.



1. Main switch

EBU17780 Indicator light



1. Neutral indicator light "N"

EBU17860

Neutral indicator light "N"

This indicator light comes on when the transmission is in the neutral position.

EBU18060 Handlebar switches



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

EBU18070

Engine stop switch "ENG. STOP"

Set this switch to "RUN" before starting the engine. The engine stop switch controls the ignition and stops the engine when it is running. Use this switch to stop the engine in an emergency situation. The engine will not start or run when this switch is set to "OFF".

EBU18090 Start switch "START"

Push this switch to crank the engine with the start-

er.

ECB00050

CAUTION:

See the starting instructions on page 6-1 prior to starting the engine.

EBU18270 Throttle lever

Once the engine is running, movement of the throttle lever will increase the engine speed.

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



1. Throttle lever

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

WARNING

POTENTIAL HAZARD Malfunction of throttle. WHAT CAN HAPPEN

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

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

EBU18331

Speed limiter and air intake restrictor plate

Your ATV was delivered with an adjustable speed limiter and an air intake restrictor plate. Yamaha recommends that all beginning riders start off with the speed limiter adjusting screw fully turned in and the air intake restrictor plate installed to limit the amount of speed available while they learn.

The speed limiter keeps the throttle from fully

opening, even when the throttle lever is pushed to the maximum. The adjusting screw may be gradually turned out as the beginner becomes more familiar with operating the ATV. Parents should decide when to adjust the ATV for more power as their youngster's riding skills improve. Once the ATV rider can operate with skill at the top speed permitted by adjusting the speed limiter alone, the air intake restrictor plate can be removed. Since removal of this plate will result in a significant increase in power, turn the adjusting screw completely back in again; adjust it out in stages as done previously.

- 1. Loosen the locknut.
- 2. To increase the maximum engine power available and the maximum speed of the ATV, turn the adjusting screw in direction (a). To decrease the maximum engine power available and the maximum speed of the ATV, turn the adjusting screw in direction (b).

NOTE:

Adjusting for maximum throttle lever movement without removing the air intake restrictor plate will cause the engine to run roughly at higher speeds. (See page 8-18.)



- 1. Locknut
- 2. Adjusting screw
- 3. No more than 20 mm (0.8 in)

3. Tighten the locknut.

EWB00180

POTENTIAL HAZARD

Improper adjustment of the speed limiter and throttle.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Do not turn the adjusting screw out more than 20 mm (0.8 in).

EBU18391 Front brake lever

The front brake lever is located on the right handlebar. To apply the front brake, pull the brake lever toward the handlebar grip.



1. Front brake lever

FBU18442

Brake pedal and rear brake lever

The brake pedal is located on the right side of the ATV and the rear brake lever is located on the left

handlebar. To apply the rear brake, push down on the brake pedal or pull the brake lever toward the handlebar grip.



1. Brake pedal



1. Rear brake lever

EBU18450 Parking brake

Use the parking brake before starting the engine or parking the ATV, especially on a slope. Apply the rear brake lever and push down the lock plate to apply the parking brake. Squeeze the rear brake lever to release the parking brake.



1. Parking brake lock plate

EWB00170

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.

EBU18550 Shift pedal

This ATV is equipped with a constant-mesh 3speed transmission. The shift pedal is located on the left side of the engine. Neutral is at the bottom position.





- 1. Fuel tank cap
- EBU18730 **Fuel**

Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown.

- 1. Shift pedal
- 2. Neutral position

EBU18720 Fuel tank cap

Remove the fuel tank cap by turning it counterclockwise.



- 1. Filler tube
- 2. Fuel level

Recommended fuel: UNLEADED GASOLINE ONLY Fuel tank capacity: 6.8 L (1.80 US gal) (1.50 Imp.gal) Fuel reserve amount: 0.9 L (0.24 US gal) (0.20 Imp.gal)

ECB00070

CAUTION:

Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston

rings, as well as to the exhaust system.

Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number [(R+M)/2] of 86 or higher, or a 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.

Gasohol

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if the ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it can cause damage to the fuel system or ATV performance problems.

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 or the sun.

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.

EBU18820 Fuel cock

The fuel cock supplies fuel from the tank to the carburetor while also filtering it.

The fuel cock lever positions are explained as follows and shown in the illustrations.





1. Arrow mark positioned over "OFF"

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





1. Arrow mark positioned over "ON"

With the fuel cock lever in this position, fuel flows to the carburetor. Turn the fuel cock lever to this position when starting the engine and riding. 1. Arrow mark positioned over "RES"

This indicates reserve. With the fuel cock lever in this position, the fuel reserve is made available. Turn the fuel cock lever to this position if you run out of fuel while riding. When this occurs, refuel as soon as possible and be sure to turn the fuel cock lever back to "ON"!

EBU18860

The choke is used to start a cold engine.

Move the choke in direction (a) to turn on the choke.

Move the choke in direction (b) to turn off the choke.

See the "Starting a cold engine" section on page 6-1 for proper operation.



- 1. Fully open "ON"
- 2. Half open (warming up position)
- 3. Closed "OFF"
- 4. Choke

4

EBU18870

To remove the seat

Pull the seat lock lever upward and pull up the seat at the rear.



1. Seat lock lever

To install the seat

Insert the projection on the front of the seat into the seat holder and push down on the seat at the rear.

NOTE:

Make sure that the seat is securely fitted.



- 1. Projection
- 2. Seat holder

EBU18950

- Do not exceed the load limit of 5.0 kg (11 lb) for the carrier.
- Do not exceed the maximum load of 95.0 kg (209 lb) for the ATV.

EWB00010



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

4

PRE-OPERATION CHECKS

Pre-operation check list

Before operating this ATV, be sure to check the items listed in the following table.

NOTE:__

The maintenance of some items in the table has to be performed by a Yamaha dealer. Refer to the "Periodic maintenance and lubrication chart" on page 8-3 to determine which service should be performed by a Yamaha dealer.

ITEM	ROUTINE	PAGE
Fuel	 Check fuel level in fuel tank, and add recommended fuel if necessary. Check fuel line for leakage. Correct if necessary. 	4-8, 5-3
Engine oil	 Check oil level in engine, and add recommended oil to specified level if necessary. Check ATV for oil leakage. Correct if necessary. 	5-3, 8-10
Final gear oil	Check ATV for oil leakage. Correct if necessary.	5-3, 8-13
Front brake	 Check operation, and correct if necessary. Lubricate cable if necessary. Check lever free play, and adjust if necessary. 	5-3, 8-22, 8-23
Rear brake	 Check operation, and correct if necessary. Lubricate cable if necessary. Check lever and pedal free play, and adjust if necessary. 	5-3, 8-22, 8-25
Throttle lever	Make sure that operation is smooth, and check cable free play. Lubricate cable and lever housing if necessary.	5-4, 8-21
Control cables	Make sure that operation is smooth. Lubricate if necessary.	8-29

ITEM	ROUTINE	PAGE
Wheels and tires	 Check wheel condition, and replace if damaged. Check tire condition and tread depth. Replace if necessary. Check air pressure. Correct if necessary. 	5-5, 5-6, 5-7
Brake and shift pedals	Make sure that operation is smooth. Lubricate pedal pivoting points if necessary.	8-31
Brake levers	 Make sure that operation is smooth. Lubricate lever pivoting points if necessary. 	8-30
Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened.	5-7
Instruments and switches	Check operation, and correct if necessary.	5-7
Battery	Check electrolyte level. Fill with distilled water if necessary.	5-7, 8-32

EWB00470

WARNING

POTENTIAL HAZARD Failure to inspect the ATV before operating. Failure to properly maintain the ATV. WHAT CAN HAPPEN Increases the possibility of an accident or equipment damage. HOW TO AVOID THE HAZARD Always inspect your ATV each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

EBU19530 Fuel

Make sure that there is sufficient fuel in the tank. (See page 4-8.)

EWB00500

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 or the sun.

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.

EBU19560 Engine oil

Make sure that the engine oil is at the specified level. Add oil as necessary. (See page 8-10.)

EBU19590 Final gear oil

Make sure that the final gear oil is at the specified level. Add oil as necessary. (See page 8-13.)

EBU19660 Front and rear brakes

Brake levers and brake pedal

- Check for correct free play in the brake levers and brake pedal. If the free play is incorrect, adjust it. (See pages 8-23 and 8-25.)
- Check operation of the brake levers and brake pedal. They should move smoothly and there should be a firm feeling when the brakes are applied. If not, have the ATV checked by a Yamaha dealer.

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, check the brake linings for wear. (See page 8-22.)

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 checked by a Yamaha dealer.

EBU19761 Throttle lever

Check the operation of the throttle lever. It must open smoothly and spring back to the idle position when released. Have a Yamaha dealer correct if necessary.

EBU19781 Tires

EWB00561

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

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

Front:

Manufacturer/model:

DUNLOP/KT586

Size:

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AT18 x 7-7
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Type:

```
Tubeless
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Rear: Manufacturer/model: DUNLOP/KT587 Size: AT18 x 8-7 Type: Tubeless

• The tires should be set to the recommended pressure:

Recommended tire pressure:

Front:

20 kPa (2.9 psi) (0.20 kgf/cm²) Rear:

20 kPa (2.9 psi) (0.20 kgf/cm²)

- Check and adjust tire pressures when the tires are cold.
- Tire pressures must be equal on both sides.
• Tire pressure below the minimum specified could cause the tire to dislodge from the rim under severe riding conditions. Minimum tire pressure:

Front:

17 kPa (2.5 psi) (0.17 kgf/cm²) Rear:

17 kPa (2.5 psi) (0.17 kgf/cm²)

- Use no more than the following pressures when seating the tire beads.
- Maximum tire seating pressure:

Front:

250 kPa (36 psi) (2.5 kgf/cm²) Rear:

250 kPa (36 psi) (2.5 kgf/cm²) Higher pressures and fast inflation may cause a tire to burst. Inflate the tires very slowly and carefully.

EBU 19820 Measuring the 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.



1. Low-pressure tire gauge

Set the tire pressure when the tires are cold. Set

the tire pressures to the following specifications:

Recommended pressure: Front 20 kPa (2.9 psi) (0.20 kgf/cm²) Rear 20 kPa (2.9 psi) (0.20 kgf/cm²) Minimum: Front 17 kPa (2.5 psi) (0.17 kgf/cm²) Rear 17 kPa (2.5 psi) (0.17 kgf/cm²) Maximum: Front 23 kPa (3.3 psi) (0.23 kgf/cm²) Rear 23 kPa (3.3 psi) (0.23 kgf/cm²)

EBU19830 Tire wear limit

Replace the tire when the tire groove decreases to 3 mm (0.12 in).



1. Tire wear limit

Chassis fasteners

Make sure that all nuts, bolts and screws are properly tightened.

EBU19850

Instruments, lights and switches

Check that all instruments, lights and switches are working properly. Correct if necessary.

EBU19860 Battery

Check the fluid level in the battery. Fill with distilled water if necessary. (See page 8-32.)

5

OPERATION

EWB00010

WARNING

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

EBU19890

EWB00610

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 Yamaha dealer. EBU20211
Starting a cold engine

EWB00620

A WARNING

POTENTIAL HAZARD

Frozen 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.

ECB00150

CAUTION:

See the "Engine break-in" section on page 6-5 prior to operating the engine for the first time.

- 1. Set the parking brake.
- 2. Turn the fuel cock to "ON".
- 3. Turn the main switch to "ON" and the engine stop switch to "RUN".
- 4. Shift the transmission into neutral. The neutral indicator light should come on. If the indicator

light does not come on, have a Yamaha dealer check the electrical circuit.

NOTE:

This model is equipped with an ignition circuit cutoff system. The engine can be started under the following conditions.

- The transmission is in neutral.
- The rear brake lever is applied with the transmission in any gear. However, it is recommended to shift into neutral before starting the engine.
- 5. Use the choke in reference to the figure:

Position (1):

6

• Cold engine start with ambient temperature below 30 °C (90 °F).

Position (2):

• Warming up position.

Position (3):

 Cold engine start with ambient temperature above 25 °C (80 °F). Ambient temp./choke position



- 1. Fully open "ON"
- 2. Half open (warming up position)
- 3. Closed "OFF"
- 4. Choke
- 6. Completely close the throttle lever and start the engine by pushing the start switch.

NOTE:

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

7. If the engine is started with the choke in position (1), the choke should be returned to position (2) to warm up the engine. If the engine is started with the choke in position (2), keep the choke in this position to warm up the engine.

ECB00160

CAUTION:

For maximum engine life, always warm the engine up before starting off. Never accelerate hard when the engine is cold!

8. Continue warming up the engine until it idles smoothly, then return the choke to position (3) before riding.

NOTE:

The engine is warm when it responds normally to the throttle with the choke turned off.

EBU20301 Starting a warm engine

Follow the same procedure as for starting a cold engine, with the exception that the choke is not required when the engine is warm. Instead, start the engine with the throttle slightly open.

EBU20550 Shifting

This ATV has a 3-speed forward transmission with a centrifugal, automatic clutch. The transmission allows you to control the amount of power you have available at a given speed or for starting accelerating, climbing, etc.

To shift into neutral, return the throttle lever to the closed position and repeatedly depress the shift pedal until it stops.



6

- 1. Shift pedal
- 2. Neutral position

EBU20600

To start out and accelerate

1. Release the throttle lever.

CAUTION:

Always close the throttle before shifting gears, otherwise damage to the engine and drive train may result.

- 2. Shift into first gear and release the shift pedal.
- 3. Open the throttle gradually.
- 4. Once the ATV has attained adequate speed, release the throttle lever.
- 5. Shift into second gear and release the shift pedal.
- 6. Open the throttle gradually.
- 7. Follow the same procedure when shifting to the next higher gear.

EWB00690

WARNING

POTENTIAL HAZARD

Opening the throttle before releasing the shift pedal.

WHAT CAN HAPPEN

The ATV could wheelie. This would increase the chance of an accident, including overturn.

HOW TO AVOID THE HAZARD

Release the shift pedal before opening the throttle. Open the throttle gradually.

EBU20640

To decelerate

When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident. EWB00650

WARNING

POTENTIAL HAZARD

Engaging a lower gear when the engine speed is too high.

WHAT CAN HAPPEN

The wheels could stop rotating and lose traction. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

HOW TO AVOID THE HAZARD

Make sure the engine has sufficiently slowed before shifting to a lower gear.

ECB00190

CAUTION:

Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the ATV for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.

EBU20670 Engine break-in

There is never a more important period in the life of your engine than the first 20 hours of riding. For this reason, you should read the following material carefully.

Since the engine is brand new, do not put an excessive load on it for the first 20 hours. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

0–10 hours

Avoid prolonged operation above 1/2 throttle. Vary the speed of the ATV regularly. Do not operate it at one set throttle position.

10-20 hours

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

20 hours and beyond

The ATV can now be operated normally.

CAUTION:

If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the ATV.

EBU20721 Parking

When parking the ATV, stop the engine, shift into first gear, apply the parking brake, and then turn the fuel cock to "OFF".



1. Parking brake lock plate



1. Locked position

EBU20830 Parking on a slope

EWB00790

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 ATV transversely across the incline, shift into first gear, stop the engine, apply the parking brake, and then 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 ATV to a stop by applying the brakes in first gear.
- 2. Stop the engine.
- 3. With the rear brake lever and brake pedal applied, apply the parking brake and slowly release the brake pedal.



Accessories and loading

EBU20920

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 Yamaha dealer has a variety of genuine Yamaha accessories. Other accessories may also be available on the market. However, it is not possible for Yamaha to test all non-Yamaha accessories, nor control over their quality or suitability. Choose a genuine Yamaha 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 to control the ATV. Examples include (but are not limited to) a heavy or bulky object attached to the handlebars which could make steering difficult, an accessory that

limits your ability to move around on the seat, or one that limits your view.

• Use extra caution when riding an ATV with accessories. The ATV may handle differently than it does without accessories.

EBU21110

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Loading

As originally equipped, this ATV is not designed to tow a trailer. If you choose to add accessories so that you can tow a trailer, you must use common sense and good judgment as the stability and han-

- dling of an ATV can be changed. When adding accessories, keep the following points in mind:
- Never exceed the weight limits shown. An overloaded ATV can be unstable.

MAXIMUM LOADING LIMIT

ATV loading limit (total weight of rider, cargo, accessories, and tongue):

95.0 kg (209 lb)

Carrier:

5.0 kg (11 lb)

• If you are carrying cargo and towing a trailer, include the tongue weight in the maximum ATV load limit.

- Load cargo on the carrier as close to the center of the ATV as possible. Put cargo at the front of the carrier and center it.
- Tie down cargo securely to the carrier. Make sure cargo in the trailer cannot move around. A shifting load can cause an accident.
- Make sure the load does not interfere with controls or your ability to see where you are going.
- Ride more slowly than you would without a load. The more weight you carry, the slower you should go. Although conditions vary, it is good practice not to exceed 2nd gear whenever you are carrying heavier loads or when towing a trailer.
- Allow more braking distance. A heavier ATV takes longer to stop.
- Avoid making sharp turns unless at very slow speeds.
- Avoid hills and rough terrain. Choose terrain carefully. Added weight affects the stability and

handling of the ATV.

EWB00750

WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached.

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

EWB00010



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

RIDING YOUR ATV



EWB00010

WARNING

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

EBU21562

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 Owner's Manual completely and understand the operation of the controls. Pay particular attention to the safety information on pages 1-1–1-4. Please also read all caution and warning labels on your ATV.

RIDE WITH CARE AND GOOD JUDGEMENT

Get training if you are inexperienced.

Beginners should get training from a certified instructor.

Become familiar with this ATV at slow speeds first, even if you are an experienced operator. Do not attempt to operate at maximum performance until you are totally familiar with the ATV's handling and performance characteristics. EWB01280

WARNING

POTENTIAL HAZARD

Operating this ATV without proper instruction.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Beginning and inexperienced operators should complete the certified training course offered by Yamaha. They should then regularly practice the skills learned in the course and the operating techniques described in this Owner's Manual. For more information about the training course, contact an authorized ATV dealer or call 1-800-887-2887.

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

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

Not recommended for children under 12 years

of age.

EWB01210

WARNING

POTENTIAL HAZARD

Failure to follow the age recommendations for this ATV.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

A child under 12 should never operate an ATV with engine size greater than 70 cc.



This ATV is designed to carry operator and cargo 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.





Apparel

EWB00920

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
- Iong pants



- 1. Protective clothing
- 2. Goggles
- 3. Gloves
- 4. Boots
- 5. Helmet

Do not operate after consuming alcohol or drugs.

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



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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Pre-operation checks

Always perform the pre-operation checks listed on page 5-1 before riding for proper care of the ATV and to ensure safety.

EWB00940

POTENTIAL HAZARD

Failure to inspect the ATV before operating. Failure to properly maintain the ATV. WHAT CAN HAPPEN

Increases the possibility of an accident or equipment damage.

HOW TO AVOID THE HAZARD

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

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

EWB00950

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 ATV on page 5-5.

Always maintain proper tire pressure as described in the Owner's Manual on page 5-6.

EWB00010



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

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

EWB00960

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 less experienced with this model, the throttle lever housing is equipped with a speed limiter. The speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to the maximum. Turning in the adjusting screw limits the maximum engine power available and decreases the maximum speed of the ATV. Turning in the adjusting screw decreases top speed, and turning it out increases top speed. (See page 4-4.) This model also has an air intake restrictor plate to limit the amount of engine power available.

Yamaha recommends that all beginning riders start off with the speed limiter turned in and the air intake restrictor plate installed to limit the amount of speed available while they learn. The limiter may be gradually adjusted to increase maximum speed as the beginner becomes more familiar with operating the ATV. Parents should decide when to adjust the ATV for more power as their youngster's riding skills improve. Once the ATV rider can operate with skill at the top speed permitted by adjusting the speed limiter alone, the air intake restrictor plate can be removed. Since removal of this plate will result in a significant increase in power, turn the speed limiter back in again; adjust it out in stages as you did before.

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Adjusting for maximum throttle lever movement without removing the air intake restrictor plate will cause the engine to run roughly at higher speeds. For air intake restrictor plate removal instructions,

see page 8-18.



1. Locknut

2. Adjusting screw

Loading and accessories

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

MAXIMUM LOADING LIMIT ATV loading limit (total weight of cargo, rider, accessories, and tongue): 95.0 kg (209 lb) Carrier: 5.0 kg (11 lb)

EWB00970

WARNING

POTENTIAL HAZARD

Overloading this ATV or carrying or towing cargo improperly.

WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached.

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

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

During operation

Always keep your feet on the footboards during operation, otherwise they 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 off of the ATV. If you remove a foot from 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.

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

EWB00990

WARNING

POTENTIAL HAZARD

Attempting wheelies, jumps, and other stunts.

WHAT CAN HAPPEN

Increases the chance of an accident, including an overturn.

HOW TO AVOID THE HAZARD

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



Modifications

EWB01000

WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this ATV 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 ATV should be genuine Yamaha 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 ATV dealer.

Exhaust system

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

WARNING

POTENTIAL HAZARD Hot exhaust system.

WHAT CAN HAPPEN

Dry grass or brush or other combustible material accumulated around the engine area could catch fire.

Someone touching the exhaust system during or after operation could be burned. HOW TO AVOID THE HAZARD

Do not operate, idle, or park the ATV in dry grass or other dry ground cover.

Keep the engine area free of dry grass, brush, or other combustible material.

Do not touch the hot exhaust system.

Do not park the ATV in a place where others might be likely to touch it.



BE CAREFUL WHERE YOU RIDE

This ATV is designed for off-road use only. Riding on paved surfaces can cause loss of control. EWB01020

POTENTIAL HAZARD

Operating this ATV on paved surfaces. WHAT CAN HAPPEN

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

HOW TO AVOID THE HAZARD

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



Do not ride on any public road, street, or highway. Riding on public roads can result in collisions with other vehicles.

EWB01030

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.



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 ATV to upset. EWB01040

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.



EWB01050

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 ATV 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.



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



EWB01060

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 ATV to make you more visible. Watch carefully for other vehicles.

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



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

Set the parking brake and follow the instruction on page 6-1 to start the engine. Once it has warmed up you are ready to begin riding your ATV. As you get on the ATV, be sure not to accidentally move the shift pedal. Remember that the engine and exhaust pipe will be hot when riding and afterwards; do not allow skin or clothing to come in contact with these components.

With the engine idling, lift the shift pedal to the 1st gear position and then release the parking brake. Apply the throttle slowly and smoothly. The centrifugal clutch will engage and you will start to accelerate. Once the ATV has attained adequate speed, release the throttle and lift the shift pedal to the 2nd gear position. Release the shift pedal and apply the throttle smoothly. Use this same procedure as you move into the higher gears. Be sure to coordinate the use of the throttle and shift pedal properly. If the throttle is applied too abruptly or if the throttle is not released during shifting, or if the shift pedal is not released before applying the throttle, the front wheels may lift off the ground, resulting in a loss of directional control. Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.

ECB00230

CAUTION:

Do not shift gears without releasing the throttle. Damage to the engine or drive train may occur. When slowing down or stopping, release the throttle and apply the brakes smoothly and evenly. As you slow down, shift to a lower gear. Be sure that the engine has sufficiently slowed before engaging a lower gear. Improper use of the brakes or shifting can cause the tires to lose traction, reducing control and increasing the possibility of an accident. EWB01070

POTENTIAL HAZARD

Engaging a lower gear when the engine speed is too high.

WHAT CAN HAPPEN

The wheels could stop rotating. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.

HOW TO AVOID THE HAZARD

Make sure the engine has sufficiently slowed before shifting to a lower gear.

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.

EWB01220

WARNING

POTENTIAL HAZARD

Turning improperly. WHAT CAN HAPPEN

The 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.

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.



Lean towards inside of turn.
 Support your weight on the outer footboard.

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, excessive braking, incorrect body movements, or too much speed for the sharpness of the turn may cause the ATV to tip. If the ATV begins to tip over to the outside while negotiating a turn, lean more to the inside. It may also be necessary to gradually let off on the throttle and steer 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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CLIMBING UPHILL

Use proper riding techniques to avoid ATV 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.

EWB01090

A WARNING

POTENTIAL HAZARD

Operating on excessively steep hills.

WHAT CAN HAPPEN

The ATV 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 your weight is transferred forward on the ATV. This can be accomplished by leaning forward and, on steeper inclines, standing on the footboards and leaning forward over the handlebars. EWB01100

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 or make sudden gear changes. 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.



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 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.

Shift your weight to the uphill side of the ATV.



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

If you start to roll backwards, DO NOT apply the rear brake to stop or try to put the ATV in gear. The ATV could easily tip over backwards. Instead, apply the front brake gradually, or dismount the ATV

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immediately on the uphill side.

POTENTIAL HAZARD

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

WHAT CAN HAPPEN

Could result in the ATV overturning.

HOW TO AVOID THE HAZARD

Use the proper gear and maintain a steady speed when climbing a hill.

If you lose all forward speed:

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



RIDING DOWNHILL

When riding your ATV downhill, shift your weight as far to the rear and uphill side of the ATV as possible. Move back on the seat and sit with your arms straight. Choose a low gear which will allow the engine compression to do most of the braking for you. 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.

EWB01130

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.

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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 ATV to lean sharply to one side. Go straight down the hill where possible.



CROSSING A SLOPE

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

As you travel across a slope, lean your body in the 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. EWB01141

A 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.

Shift your weight to the uphill side of the ATV.



CROSSING THROUGH SHALLOW WATER

The ATV can be used to cross slow moving, shallow water of up to a maximum of 20 cm (8 in) in depth. Before entering the water, choose your path

7-24

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.

EWB01150

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.



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


ECB00240

CAUTION:

After riding your ATV in water, be sure to drain the trapped water by removing the check hose at the bottom of the air filter case. Wash the ATV in fresh water if it has been operated in salt water or muddy conditions.



1. Air filter case check hose

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 times. 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.

SLIDING AND SKIDDING

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

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



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



With practice, over a period of time, skill at controlled sliding can be developed. The terrain should be chosen carefully before attempting such maneuvers, since both stability and control are reduced. Bear 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.

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 page 7-17.)
- 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 page 7-17.)

- 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 page 7-27.)
- 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. Instead, apply the front brake or dismount the ATV on the uphill side. (See page 7-19.)

 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 page 7-19.) 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 page 7-24.)

EWB00010

WARNING

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

7

PERIODIC MAINTENANCE AND MINOR REPAIR

EBU21660

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

The intervals given in the periodic maintenance and lubrication chart should be considered as a general guide under normal riding conditions. However, DEPENDING ON THE WEATHER, TERRAIN, GEOGRAPHICAL LOCATION, AND INDIVIDUAL USE, THE MAINTENANCE INTER-VALS MAY NEED TO BE SHORTENED.

EWB01820

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 start fires.

HOW TO AVOID THE HAZARD

Turn off the engine when performing maintenance unless otherwise specified. Have a Yamaha dealer perform the service if you are not familiar with maintenance work.

EBU27100

Owner's manual and tool kit

Be sure to put this owner's manual in the plastic bag and to always carry it as well as the owner's tool kit and the low-pressure tire gauge in their respective compartments under the seat.



- 1. Owner's manual
- 2. Low-pressure tire gauge
- 3. Owner's tool kit

The service information included in this manual and the tools provided in the owner's tool kit are intended to assist you in the performance of preventive maintenance and minor repairs. However, additional tools such as a torque wrench may be necessary to perform certain maintenance work correctly.

NOTE:

If you do not have the tools or experience required for a particular job, have a Yamaha dealer perform

it for you.

EWB01830

WARNING

POTENTIAL HAZARD

Operating this ATV with improper modifications.

WHAT CAN HAPPEN

Improper installation of accessories or modification of this ATV 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 ATV should be genuine Yamaha 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 Yamaha ATV dealer.

Periodic maintenance chart for the emission control system

NOTE: _

- For ATVs not equipped with an odometer or an hour meter, follow the month maintenance intervals.
- For ATVs equipped with an odometer or an hour meter, follow the km (mi) or hours maintenance intervals. However, keep in mind that if the ATV isn't used for a long period of time, the month maintenance intervals should be followed.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

		ITEM					INITIAL	EVERY		
NO.	0.		CHECK OR MAINTENANCE JOB	Whichev-	month	1	3	6	6	12
				er comes first ⊏≻	km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
1	*	Fuel line	Check fuel hoses for cracks or other damage, and replace if necessary.					V	V	\checkmark
2		Spark plug	 Check condition and clean, regap, or replace if necessary. 			\checkmark	\checkmark	V	\checkmark	\checkmark
3	*	Valves	Check valve clearance and adjust if necessary.						\checkmark	
4	*	Carburetor	 Check choke operation and correct if necessary. Check engine idling speed and adjust if necessary. 				\checkmark	V	\checkmark	
5	*	Crankcase breather system	Check breather hose for cracks or other damage, and replace if necessary.					V	\checkmark	\checkmark

NC		ITEM	CHECK OR MAINTENANCE JOB				INITIAL		EVERY	
				Whichev-	month km (mi)	1	3	6	6	12
	0.			er comes first		320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
6	*	Exhaust system	 Check for leakage and replac sary. Check for looseness and tigh and joints if necessary. 				V	V	V	
7		Spark arrester	Clean.							

General maintenance and lubrication chart

		ІТЕМ	CHECK OR MAINTENANCE JOB				INITIAL		EVERY			
				Whichev-	month	1	3	6	6	12		
N	0.			er comes first	km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)		
					hours	20	80	160	160	320		
1	*	Timing chain	Check chain tension. Adjust if necessary.					V	V	\checkmark		
2		Air filter element	Clean and replace if necessary.				Every 20–40 hours (more often in dusty areas)					
3	*	Clutch	Check operation and adjust if necessary.					\checkmark	\checkmark	\checkmark		
4	*	Front brake	 Check operation and correct if necessary. Check brake lever free play and adjust if necessary. 				\checkmark	\checkmark	\checkmark	\checkmark		
			Replace brake shoes.				Whenever worn to the limit					
5	*	Rear brake	 Check operation and correct if necessary. Check brake lever and pedal free play, and adjust if necessary. 			\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
			Replace brake shoes.			Whenever worn to the limit				t		
6	*	Wheels	• Check runout and for damage, and replace if nec- essary.			V		V	V	\checkmark		
7	*	Tires	 Check tread depth and for damage, and replace if necessary. Check air pressure and balance, and correct if necessary. 			\checkmark		\checkmark	\checkmark	\checkmark		
8	*	Wheel bearings	Check for looseness or damage, and replace if necessary.			V		V	V	\checkmark		
9	*	Drive shaft univer- sal joint	Lubricate with lithium-soap-ba	ased grease.				\checkmark	\checkmark	\checkmark		

). ITEM					INITIAL	EVE	ERY	
			CHECK OR MAINTENANCE JOB	Whichev-	month	1	3	6	6	12
NO.	0.			er comes first	km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
10	*	Chassis fasteners	Make sure that all nuts, bolts, and screws are properly tightened.				\checkmark	V	V	\checkmark
11	*	Shock absorber assemblies	 Check operation and correct if necessary. Check for oil leakage and replace if necessary. 					V	\checkmark	\checkmark
12	*	Knuckle shafts	 Lubricate with lithium-soap-based grease. 					\checkmark		
13	*	Steering shaft	Lubricate with lithium-soap-based grease.					V		
14	*	Steering system	 Check operation and repair or replace if damaged. Check toe-in and adjust if necessary. 				\checkmark	V	\checkmark	\checkmark
15		Engine oil	Change. Check ATV for oil leakage, and correct if neces- sary.					\checkmark	\checkmark	
16		Final gear oil	Change. Check ATV for oil leakage, and correct if neces- sary.			\checkmark				\checkmark
17	*	Moving parts and cables	Lubricate.				\checkmark	V	\checkmark	\checkmark
18	*	Throttle lever hous- ing and cable	 Check operation and correct if necessary. Check throttle cable free play and have a Yamaha dealer adjust if necessary. Lubricate throttle lever housing and cable. 			\checkmark	\checkmark	V		
19	*	Front and rear brake switches	Check operation and correct	if necessary.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

		ІТЕМ СНЕСК О				INITIAL			EVERY	
NO.			CHECK OR MAINTENANCE JOB	Whichev-	month	1	3	6	6	12
	0.			er comes first ⊏>	km (mi)	320 (200)	1300 (800)	2500 (1600)	2500 (1600)	5000 (3200)
					hours	20	80	160	160	320
20	*	Battery	 Check electrolyte level and specific gravity, and correct if necessary. Make sure that the breather hose is properly routed. 				V	V	V	

EBU23060

NOTE:

The air filter needs more frequent service if you are riding in unusually wet or dusty areas.

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EWB00010

WARNING

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

Checking the spark plug

The spark plug is an important engine component, which is easy to check. Since heat and deposits will cause any spark plug to slowly erode, the spark plug should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plug can reveal the condition of the engine.

To remove the spark plug

1. Remove the spark plug cap.



- 1. Spark plug cap
- 2. Remove the spark plug as shown, with the spark plug wrench included in the owner's tool kit.



1. Spark plug wrench

To check the spark plug

 Check that the porcelain insulator around the center electrode of the spark plug is a medium-to-light tan (the ideal color when the ATV is ridden normally).

NOTE:

If the spark plug shows a distinctly different color, the engine could be defective. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the ATV.

2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and

replace it if necessary.

Specified spark plug: NGK/CR7HSA

To install the spark plug

1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.

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



- 1. Spark plug gap
- 2. Clean the surface of the spark plug gasket

and its mating surface, and then wipe off any grime from the spark plug threads.

3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque: Spark plug: 12.5 Nm (1.3 m·kgf, 9.0 ft·lbf)

NOTE:

If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4-1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

- 8
- 4. Install the spark plug cap.

EBU23251 Engine oil

The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance and lubrication chart.

To check the engine oil level

1. Place the ATV on a level surface.

- 2. Start the engine, warm it up for several minutes, and then turn it off.
- 3. Wait a few minutes until the oil settles before checking.
- 4. Remove the engine oil filler cap, and then wipe the dipstick off with a clean rag.



- 1. Dipstick
- 5. Insert the dipstick into the filler hole (without screwing it in), and then remove it again to check the oil level.



- 1. Dipstick
- 2. Maximum level mark
- 3. Minimum level mark

NOTE:

The engine oil should be between the minimum and maximum level marks.

- 6. If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
- 7. Insert the dipstick into the oil filler hole, and then tighten the engine oil filler cap.

To change the engine oil

1. Place the ATV on a level surface.

- 2. Start the engine, warm it up for several minutes, and then turn it off.
- 3. Place an oil pan under the engine to collect the used oil.
- 4. Remove the engine oil filler cap, and then remove the engine oil drain bolt to drain the oil from the crankcase.



- 1. Engine oil drain bolt
- 5. Check the O-ring for damage and replace it if necessary.
- 6. Install the engine oil drain bolt, and then tight-

en it to the specified torque.

Tightening torque: Engine oil drain bolt: 20 Nm (2.0 m·kgf, 14.5 ft·lbf)

7. Add the specified amount of the recommended engine oil, and then install and tighten the engine oil filler cap.

Recommended oil: See page 10-1.

Oil quantity:

0.80 L (0.85 US qt) (0.70 Imp.qt)

ECB00300

CAUTION:

- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERV-ING II" or higher.
- Make sure that no foreign material enters the crankcase.

minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.

9. Turn the engine off, and then check the oil level and correct it if necessary.

^{8.} Start the engine, and then let it idle for several

FBU23403 Final gear oil

The final gear case must be checked for oil leakage before each ride. If any leakage is found, have a Yamaha dealer check and repair the ATV. In addition, the final gear oil level must be checked and the oil changed as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the final gear oil level

1 Place the ATV on a level surface

NOTE:

The final gear oil level must be checked on a cold engine.

2. Remove the final gear oil filler cap, wipe the dipstick off with a clean rag, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level.

NOTE: _

The final gear oil should be between the minimum and maximum level marks.

3. If the oil is at or below the minimum level mark. add sufficient oil of the recommended type to raise it to the correct level.



- 1. Dipstick
- 2. Maximum level mark
- 3. Minimum level mark

4. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

To change the final gear oil

- 1. Place the ATV on a level surface.
- 2. Place an oil pan under the final gear case to collect the used oil
- 3. Remove the final gear oil filler cap and the final gear oil drain bolt to drain the oil from the final gear case.



- 1. Final gear oil drain bolt
- 4. Install the drain bolt, and then tighten it to the specified torque.

Tightening torque: Final gear oil drain bolt: 23 Nm (2.3 m·kgf, 16.6 ft·lbf)

5. Add the specified amount of the recommend-

ed final gear oil, and then check the oil level.

Recommended final gear oil: See page 10-1. Oil quantity: 0.12 L (0.13 US qt) (0.11 Imp.qt)

ECB00420

CAUTION:

Be sure no foreign material enters the final gear case.

- 6. Install and tighten the oil filler cap.
- 7. Check the final gear case for oil leakage. If oil is leaking, check for the cause.

EBU27170

Cleaning the air filter element

The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

NOTE:

There is a check hose at the bottom of the air filter case. If dust or water collects in this hose, empty the hose and clean the air filter element and air filter case.



- 1. Air filter case check hose
- 1. Remove the quick fasteners.



- 1. Quick fastener
- 2. Remove the panel by sliding it forward and pulling it off as shown.



- 1. Panel
- 3. Remove the air filter case cover by unhooking the holders.



- 1. Air filter case cover
- 2. Air filter case holder
- 4. Unhook the holder holding the air filter element, and then pull out the sponge material from the air filter element.



- 1. Unhook.
- Sponge material
- 5. Wash the sponge material gently but thoroughly in solvent.

EWB01900

WARNING

POTENTIAL HAZARD

Using low-flash-point solvents or gasoline to clean the sponge material.

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 sponge material.

6. Squeeze the excess solvent out of the sponge material and let it dry.

ECB00440

CAUTION:

Do not twist the sponge material when squeezing it.

- 7. Check the sponge material and replace it if damaged.
- 8. Apply Yamaha foam air filter oil or other quality foam air filter oil to the sponge material.

NOTE:

ping.

The sponge material should be wet but not drip-

- 9. Install the sponge material into the air filter element.
- 10. Place the air filter element in the original position, and then hook the holder.
- 11. Install the air filter case cover by hooking the holders onto the air filter case.
- 12. Place the panel in the original position, and then install the quick fasteners.

NOTE:

The air filter element should be cleaned every 20– 40 hours. It should be cleaned and lubricated more often if the ATV is operated in extremely dusty areas. Each time the air filter element maintenance is performed, check the air inlet of the air filter case for obstructions.

ECB00460

CAUTION:

- Make sure that the air filter element is properly seated in the air filter case.
- Never operate the engine with the air filter element removed. This will allow unfiltered air to enter the engine, causing rapid engine wear and possible engine damage. Additionally, operation without the air filter element will affect carburetor jetting with subsequent poor performance and possible engine overheating.

EBU23850

Removing the air intake restrictor plate

To obtain full engine performance capability, removing the air intake restrictor plate is required.

1. Remove the air filter element. (See page 8-14.)

2. Remove the air intake restrictor plate.



1. Air intake restrictor plate

NOTE:

Store the air intake restrictor plate with the owner's manual so that it is readily available whenever you want to reduce the top speed.

3. Install the air filter element.

EBU23891

Cleaning the spark arrester

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

1. Remove the screws.



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



- 1. Tailpipe
- 2. Spark arrester
- 3. Screw
- 4. Insert the tailpipe into the muffler and align the screw holes.
- 5. Install the screws and tighten them.

EWB01910

AWARNING

POTENTIAL HAZARD

Improper cleaning of the spark arrester.

Hot exhaust system.

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.

EBU23940

Adjusting the carburetor

The carburetor should be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart. The carburetor is an important part of the engine and requires very sophisticated adjustment. Therefore, most carburetor adjustments should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. The adjustment described in the following section, however, may be performed by the owner as part of routine maintenance.

ECB00480

CAUTION:

The carburetor has been set and extensively tested at the Yamaha factory. Changing these settings without sufficient technical knowledge may result in poor performance of or damage to the engine.

EBU24000

Adjusting the engine idling speed

The engine idling speed must be checked and, if necessary, adjusted as follows at the intervals specified in the periodic maintenance and lubrication chart.

NOTE:

A diagnostic tachometer is needed to make this adjustment.

1. Start the engine and warm it up.

NOTE:

The engine is warm when it quickly responds to the throttle.

- 2. Attach the tachometer to the spark plug lead.
- Check the engine idling speed and, if necessary, adjust it to specification by turning the throttle stop screw at the carburetor. To increase the engine idling speed, turn the throttle stop screw in direction (a), and to decrease it, turn the screw in direction (b).



NOTE:

If the specified idling speed cannot be obtained as described above, have a Yamaha dealer make the adjustment.

EBU27070

Checking the throttle cable free play

The throttle cable free play should be checked at the intervals specified in the periodic maintenance and lubrication chart.

The throttle cable free play can be checked by measuring the throttle lever free play 1.0–3.0 mm (0.04–0.12 in) as shown. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it.

1. Throttle stop screw

Engine idling speed: 1750–1850 r/min



1. Throttle lever free play

EBU24050

Timing chain

The timing chain stretches with use, resulting in improper valve timing and engine noise. To prevent this from occurring, the timing chain tensioner must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

FBU24060 Valve clearance

The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To

prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

EBU24090 Checking the front and rear brake shoes

The front and rear brake shoes must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake is provided with a wear indicator, which allows you to check the brake shoe wear without having to disassemble the brake. To check the brake shoe wear, check the position of the wear indicator while applying the brake. If a brake shoe has worn to the point that the wear indicator reaches the wear limit line or mark, have a Yamaha dealer replace the brake shoes as a set

Front brake



- 1. Wear limit line
- 2. Wear indicator

Rear brake



- 1. Wear limit mark
- 2. Wear indicator

Adjusting the front brake lever free play

The brake lever free play must be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart.

NOTE:

Before adjusting the brake lever free play, check the front brake shoes for wear.

The brake lever free play should measure 10.0-

8

12.0 mm (0.39–0.47 in) as shown. If the free play is incorrect, adjust it as follows.



1. Brake lever free play

8

- 1. Loosen the upper locknut and fully turn in the upper adjusting bolt.
- 2. Loosen the lower locknut.
- 3. Turn the lower adjusting bolt in direction (a) to increase the free play, and in direction (b) to decrease it.



- 1. Upper locknut
- 2. Upper adjusting bolt
- 3. Lower locknut
- 4. Lower adjusting bolt
- 4. Tighten the lower locknut.
- 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

6. Tighten the upper locknut.

EWB02020

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 a Yamaha dealer.

FBI J24462

Adjusting the rear brake lever and brake pedal free play

The brake lever and brake pedal free play must be checked and, if necessary, adjusted at the intervals specified in the periodic maintenance and lubrication chart.

NOTE:

- Always perform this maintenance completely in the following order whenever adjusting the rear brake.
- Before adjusting the brake lever and brake pedal free play, check the rear brake shoes for wear.

Adjusting the brake lever free play

The brake lever free play should measure 5.0-8.0

mm (0.20–0.31 in) as shown. If the free play is incorrect, adjust it as follows.



- 1. Locknut
- 2. Brake lever free play adjusting bolt
- 3. Brake lever free play
 - 1. Loosen the locknut at the brake lever.
- 2. Turn the brake lever free play adjusting bolt at the brake lever in direction (a) to increase the free play, and in direction (b) to decrease it.
- 3. Tighten the locknut at the brake lever.

NOTE:

If the specified free play cannot be obtained, turn the brake lever free play adjusting nut on the brake cable at the rear wheel hub until the brake lever free play measures 5.0-8.0 mm (0.20-0.31 in).



1. Brake lever free play adjusting nut

NOTE:

When adjusting the rear brake lever free play:

- Be sure not to step on the brake pedal.
- Make sure the brake pedal does not move.

Adjusting the brake pedal free play

The brake pedal free play should measure 20.0– 30.0 mm (0.79–1.18 in) as shown. If the free play is incorrect, adjust it as follows.





1. Brake pedal free play

Turn the brake pedal free play adjusting nut on the brake rod at the rear wheel hub in direction (a) to increase the free play, and in direction (b) to decrease it.

1. Brake pedal free play adjusting nut

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 a Yamaha dealer.

EBU24791

Adjusting the clutch free play

The clutch free play must be adjusted periodically. Adjust the free play as follows.

1. Remove the left footboard by removing the screws and bolts.



- 1. Footboard
- 2. Screw
- 3. Bolt
- 2. Remove the rubber cap.
- 3. Loosen the locknut.
- 4. Slowly turn the adjusting bolt clockwise until resistance is felt, and then turn it 1/8 counterclockwise.



- 1. Rubber cap
- 2. Locknut
- 3. Adjusting bolt

NOTE:

Turning the adjusting bolt in decreases clutch free play and turning it out increases clutch free play.

5. Tighten the locknut to the specified torque.

Tightening torque: Locknut: 8 Nm (0.8 m·kgf, 5.8 ft·lbf)

NOTE:

When tightening the locknut, hold the adjusting

bolt with a screwdriver so that the adjusting bolt does not turn together with the locknut.

- 6. Install the rubber cap securely.
- 7. Install the left footboard by installing the screws and bolts, and then tighten the bolts to the specified torque.

Tightening torque: Footboard bolt: 10 Nm (1.0 m·kgf, 7.2 ft·lbf)

EBU24890

Checking and lubricating the cables

The operation and the condition of all control cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it.

Recommended lubricant: Engine oil

WARNING

POTENTIAL HAZARD

Damaged control cables. WHAT CAN HAPPEN

Corrosion can result when the cable sheaths become damaged, and cables can also become frayed or kinked, which could restrict the operation of controls and lead to an accident or injury.

HOW TO AVOID THE HAZARD

Inspect cables frequently. Replace damaged cables.

Checking and lubricating the front and rear brake levers

The operation of the front and rear brake levers should be checked before each ride, and the lever pivots should be lubricated if necessary.

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

Front brake lever



Rear brake lever



EBU24930 Checking and lubricating the brake and shift pedals

The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary.

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

EBU24961 Checking the wheel bearings

The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in a wheel hub or if a wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

EBU25070

Lubricating the knuckle shafts

The knuckle shafts must be lubricated at the intervals specified in the periodic maintenance and lubrication chart. Lubricate the knuckle shafts using a grease gun.

Recommended lubricant: Lithium-soap-based grease



1. Grease nipple

EBU25090

Lubricating the steering shaft

The steering shaft must be lubricated at the intervals specified in the periodic maintenance and lubrication chart. Lubricate the steering shaft using a grease gun.

Recommended lubricant: Lithium-soap-based grease



1. Grease nipple

EBU25111 Battery

A poorly maintained battery will corrode and discharge quickly. The electrolyte level, battery lead connections and breather hose routing should be checked before each ride and at the intervals specified in the periodic maintenance and lubrication chart.

To check the electrolyte level

- 1. Place the ATV on a level surface.
- 2. Check the electrolyte level in the battery.



- 1. Battery
- 2. Battery breather hose

NOTE:

The electrolyte should be between the minimum and maximum level marks.

3. If the electrolyte is at or below the minimum level mark, add distilled water to raise it to the maximum level mark.


1. Maximum level mark

2. Minimum level mark

ECB00590

CAUTION:

Use only distilled water, as tap water contains minerals that are harmful to the battery.

EWB02140

WARNING

POTENTIAL HAZARD

Failure to handle batteries or battery electrolyte carefully.

WHAT CAN HAPPEN

You could be poisoned. You could be severely burned by the sulfuric acid in battery electrolyte. Batteries produce explosive gases. HOW TO AVOID THE HAZARD

Avoid contact with skin, eyes or clothing. Always shield eyes when working near batteries. Keep out of reach of children.

Antidote:

EXTERNAL: Flush with water.

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

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

4. Check and, if necessary, tighten the battery lead connections and correct the breather hose routing.

To store the battery

If the ATV will not be used for more than one month, the battery will need to be removed and

stored as follows.

1. Disconnect the negative lead first and then the positive lead.



•

Battery
Negative lead

- 3. Positive lead
- 2. Remove the battery, fully charge it, and then place it in a cool, dry place.

ECB00600

CAUTION:

Do not leave or store the battery on its side.

3. If the battery will be stored for more than two months, check the specific gravity of the electrolyte at least once a month and fully charge

the battery whenever necessary.

To install the battery

NOTE:

Be sure the battery is fully charged.

- 1. Install the battery.
- 2. Connect the positive lead first, and then connect the negative lead.
- 3. Make sure that the breather hose is properly routed, in good condition, and not obstructed.



- 1. Battery
- 2. Negative lead
- 3. Positive lead

ECB00610

CAUTION:

If the breather hose is positioned in such a way that the frame is exposed to electrolyte or gas expelled from the battery, the frame could suffer structural and external damages.

FBI 125232 **Replacing the fuse**



- 1. Fuse
- 2. Spare fuse

The fuse holder is located under the seat. (See page 4-12.)

If the fuse is blown, replace it as follows.

1. Turn the key to "OFF" and turn off all electrical circuits

ECB00640

CAUTION:

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

2. Remove the blown fuse, and then install a new fuse of the specified amperage.

Specified fuse: 5.0 A

EWB02151

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

- 3. Turn the key to "ON" and turn on the electrical circuits to check if the devices operate.
- 4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

Removing a wheel

1. Loosen the wheel nuts. Front



1. Wheel nut

8

Rear

- 1. Wheel nut
- 2. Elevate the ATV and place a suitable stand under the frame.
- 3. Remove the nuts from the wheel.
- 4. Remove the wheel.

EBU25660 Installing a wheel

- 1. Install the wheel and the nuts.
- 2. Lower the ATV to the ground.
- 3. Tighten the wheel nuts to the specified torques.

Tightening torques: Front wheel nut: 28 Nm (2.8 m·kgf, 20.3 ft·lbf) Rear wheel nut: 28 Nm (2.8 m·kgf, 20.3 ft·lbf)

EBU25710

Troubleshooting

Although Yamaha ATVs receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power.

The following troubleshooting chart represents a quick and easy procedure for checking these vital systems yourself. However, should your ATV require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the ATV properly. Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

EWB02260

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.

EBU25791 Troubleshooting chart



CLEANING AND STORAGE

EBU25870 Cleaning

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

- 1. Before cleaning the ATV:
 - 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 wheel axles.
- 3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

ECB00710

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 coinoperated car washers.

- 4. Once most 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-reach places.
- 5. Rinse the ATV off immediately with clean water and dry all surfaces with a chamois, clean towel or soft absorbing cloth.
- 6. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
- 7. 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 cleaning, start the engine and let it idle for several minutes.

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.

EBU25932 Storage

Short-term

Always store your ATV in a cool, dry place and, if necessary, protect it against dust with a porous cover.

ECB00720

CAUTION:

- Storing the ATV in a poorly ventilated room or covering it with a tarp while it is still wet, will allow water and humidity to seep in and cause rust.
- To prevent corrosion, avoid damp cellars, stables (because of the presence of ammo-

nia) and areas where strong chemicals are stored.

Long-term

Before storing your ATV for several months:

- 1. Follow all the instructions in the "Cleaning" section of this chapter.
- 2. Turn the fuel cock lever to "OFF".
- 3. Drain the carburetor float chamber by loosening the drain bolt; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
- 4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel from deteriorating.

Specified amount:

7.5 ml of stabilizer to each liter of fuel (or 1 oz of stabilizer to each gallon of fuel)

- 5. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - b. Pour a teaspoonful of engine oil into the spark plug bore.
 - c. Install the spark plug cap onto the spark

plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)

- d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)
- e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.
- 6. Lubricate all control cables and the pivoting points of all levers and pedals.
- Check and, if necessary, correct the tire air pressure, and then block up the ATV so that all of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
- 8. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
- 9. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 8-32.

NOTE:

Make any necessary repairs before storing the ATV.

SPECIFICATIONS

EBU25974 Dimensions:

Overall length: 1550 mm (61.0 in) Overall width: 855 mm (33.7 in) Overall height: 930 mm (36.6 in) Seat height: 665 mm (26.2 in) Wheelbase: 1030 mm (40.6 in) Ground clearance: 100 mm (3.94 in) Minimum turning radius: 2400 mm (94.5 in)

Weight:

With oil and fuel: 124.0 kg (273 lb)

Engine:

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Engine type: Air cooled 4-stroke, SOHC Cylinder arrangement: Forward-inclined single cylinder Displacement: 79.0 cm³ (4.82 cu.in) Bore × stroke: 47.0 × 45.6 mm (1.85 × 1.80 in)

Compression ratio: 9.60:1 Starting system: Electric starter Lubrication system: Wet sump Engine oil: Type: YAMALUBE 4, SAE5W30 or SAE10W30 or SAE20W40 0° 10° 30 50° 70° 90° 110° 130°F YAMALUBE 4 (20W40) or SAE 20W40 YAMALUBE 4 (10W30) or SAE 10W30 SAE 5W30 -20° 10° 20° 30° 40° 50°C -10° ٥°

Recommended engine oil grade: API service SE, SF, SG type or higher

Engine oil quantity: Periodic oil change: 0.80 L (0.85 US at) (0.70 Imp.at) Final gear oil: Type: SAE80 API GL-4 Hypoid gear oil Quantity: 0.12 L (0.13 US gt) (0.11 Imp.gt) Air filter: Air filter element: Wet element Fuel: Recommended fuel: Unleaded gasoline only Fuel tank capacity: 6.8 L (1.80 US gal) (1.50 Imp.gal) Fuel reserve amount: 0.9 L (0.24 US gal) (0.20 Imp.gal) Carburetor: Manufacturer: MIKUNI Type x quantity: VM16SH x 1 Spark plug (s): Manufacturer/model: NGK/CB7HSA Spark plug gap: 0.6-0.7 mm (0.024-0.028 in) Clutch: Clutch type: Wet, multiple-disc automatic

Transmission:

Primary reduction system: Spur gear Primary reduction ratio: 65/20 (3.250) Secondary reduction system: Shaft drive Secondary reduction ratio: 19/18 × 34/10 (3.588) Transmission type: Constant mesh 3-speed Operation: Left foot operation 1st: 39/11 (3.545) 2nd: 35/17 (2.059) 3rd: 31/22 (1.409) Chassis: Frame type: Steel tube frame Caster angle: 1.0° Trail: 3.8 mm (0.15 in) Front tire: Type: Tubeless Size: AT18 x 7-7

Manufacturer/model: DUNI OP/KT586 **Rear tire:** Type: Tubeless Size: AT18 x 8-7 Manufacturer/model: DUNI OP/KT587 Loading: Maximum load: 95.0 kg (209 lb) (Total weight of rider, cargo, accessories, and tongue) Tire air pressure (measured on cold tires): **Recommended:** Front: 20 kPa (2.9 psi) (0.20 kgf/cm²) Rear: 20 kPa (2.9 psi) (0.20 kgf/cm²) Minimum: Front: 17 kPa (2.5 psi) (0.17 kgf/cm²) Rear: 17 kPa (2.5 psi) (0.17 kgf/cm²) Maximum: Front: 23 kPa (3.3 psi) (0.23 kgf/cm²) Rear: 23 kPa (3.3 psi) (0.23 kgf/cm²)

Front wheel: Wheel type:

Panel wheel Rim size: 7x5.5AT **Rear wheel:** Wheel type: Panel wheel Rim size: 7x6.5AT Front brake: Type: Drum brake Operation: Right hand operation **Rear brake:** Type: Drum brake Operation: Left hand and right foot operation Front suspension: Type: Leading arm Spring/shock absorber type: Coil spring/oil damper Wheel travel: 57.0 mm (2.24 in) **Rear suspension:** Type: Swingarm

Spring/shock absorber type: Coil spring/oil damper Wheel travel: 56.0 mm (2.20 in) **Electrical system:** Ignition system:

CDI Charging system: AC magneto

Battery:

Model:

12N7D-3B

Voltage, capacity:

12 V, 7.0 Ah

Bulb voltage, wattage x quantity:

Neutral indicator light:

12 V, 1.7 W × 1

Fuses:

Main fuse: 5.0 A

CONSUMER INFORMATION

EBU26011 Identification numbers

Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the ATV is stolen.

• KEY IDENTIFICATION NUMBER:

• VEHICLE IDENTIFICATION NUMBER:

- MODEL LABEL INFORMATION:
- 11

EBU26020

Key identification number

The key identification number is stamped into the key. Record this number in the space provided and use it for reference when ordering a new key.



1. Key identification number

EBU26030

Vehicle identification number

The vehicle identification number is stamped into the frame.





1. Vehicle identification number

1. Model label

NOTE:_

The vehicle identification number is used to identify your ATV.

EBU26050

Model label

The model label is affixed at the location in the illustration. Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

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

EBU26080 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.

MAINTENANCE INTERVAL		DATE OF	MILEAGE	SERVICING DEALER	REMARKS	
month	km (mi)	hours	SERVICE	WILLEAGE	NAME AND ADDRESS	NEWANKS
1	320 (200)	20				
3	1300 (800)	80				
6	2500 (1600)	160				
12	5000 (3200)	320				
18	7500 (4800)	480				
24	10000 (6400)	640				
30	12500 (8000)	800				
36	15000 (9600)	960				
42	17500 (11200)	1120				
48	20000 (12800)	1280				
54	22500 (14400)	1440				
60	25000 (16000)	1600				

YAMAHA MOTOR CORPORATION, U.S.A. ATV LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha ATVs purchased from an authorized Yamaha ATV dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY for Yamaha ATVs shall be six (6) months from the date of purchase.

DURING THE PERIOD OF WARRANTY any authorized Yamaha ATV dealer will, free of charge, repair or replace any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corp. U.S.A.

GENERAL EXCLUSIONS from this warranty shall include any failures caused by:

- a. Competition or racing use.
- Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
- c. Abnormal strain, neglect, or abuse.
- d. Lack of proper maintenance.
- e. Accident or collision damage.
- f. Modification to original parts.
- g. Damage due to improper transportation.

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance, such as spark plugs, oil, oil filter, air filter, and brake shoes.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to:

- Operate and maintain the ATV as specified in the appropriate owner's manual;
- Give notice to an authorized Yamaha ATV dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser(s), it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha ATV dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

EMISSION CONTROL SYSTEM WARRANTY

Yamaha Motor Corporation, USA also warrants to the ultimate purchaser and each subsequent purchaser of each 2006 and later model Yamaha ATV covered by this warranty that the vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.

All Models

Thirty (30) months from the original purchase date

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

> YAMAHA MOTOR CORPORATION, U.S.A. P.O. Box 6555 Cypress, California 90630

WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
- A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark plugs, and brake shoes.
- Q. What are some examples of "abnormal" strain, neglect, or abuse?
- A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high rym, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transportation and or tie-down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.
- Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
- A. No. The warranty is limited to repair of the machine itself.
- Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
- A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha ATV dealer.
- Q. Will the warranty be void or cancelled if I do not operate or maintain my new ATV exactly as specified in the Owner's Manual?
- A. No. The warranty on a new ATV cannot be "voided" or "cancelled." However, if a particular failure is caused by operation or maintenance other than as described in the Owner's Manual, that failure may not be covered under warranty.
- Q. What responsibility does my dealer have under this warranty?
- A. Each Yamaha ATV dealer is expected to:
 - 1. Completely set up every new machine before sale.
 - Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
 - Each Yamaha ATV dealer is held responsible for his setup, service and warranty repair work.
- Q. Is the warranty transferable to second owners?
- A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha ATV dealer for the policy to remain effective.

CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha ATV dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A. CUSTOMER RELATIONS DEPARTMENT P.O. Box 6555 Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A. don't forget to include any important information such as names, addresses, model, V.I.N. (frame number), dates, and receipts.

CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new ATV, please advise us of your new address by sending a postcard listing your ATV model name, V.I.N. (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A. P.O. Box 6555 Cypress, California 90630 Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha protected even after your warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y. E. S. is flexible. You choose the plan that's right for you: 12 months, 24 months, or 36 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factorybacked protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.

- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade in your ATV. That can make your Yamaha much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service. We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires. You can also save money: Y.E.S. costs less within the first 90 days after you buy your Yamaha. See your dealer today!

A special note:

If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your frame number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing P.O. Box 6555 Cypress, CA 90630



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

PROTECT YOUR INVESTMENT Use **Genuine YAMAHA** Parts and Accessories

See your Authorized YAMAHA Dealer for a Genuine YAMAHA Service Manual.

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WARNING

Improper ATV use can result in SEVERE INJURY or DEATH.





ALWAYS USE AN APPROVED HELMET AND PROTECTIVE GEAR

NEVER USE ON PUBLIC ROADS

NEVER operate:

- without proper training or instruction.
- at speeds too fast for your skills or the conditions.
- on public roads-a collision can occur with another vehicle.
- with a passenger-passengers affect balance and steering and increase risk of losing control.

ALWAYS:

NEVER CARRY

PASSENGERS

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

LOCATE AND READ OWNER'S MANUAL. FOLLOW ALL INSTRUCTIONS AND WARNINGS. (For replacement manual, call 1-800-532-1558)



YAMAHA MOTOR CO., LTD.

NEVER USE

WITH DRUGS

OR ALCOHOL

Dear New Yamaha ATV Owner:

CONGRATULATIONS ON THE PURCHASE OF YOUR NEW YAMAHA ATV. You have purchased a quality Yamaha product that, with proper use and care, will provide hours of riding pleasure. **BEFORE YOU OPERATE YOUR NEW ATV, Yamaha recommends these important points:**

- READ YOUR OWNER'S MANUAL
- A CHILD UNDER 6 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 50CC OR GREATER
- A CHILD UNDER 12 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 70CC OR GREATER

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- A CHILD UNDER 16 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE GREATER THAN 90CC
- TAKE THE FREE HANDS-ON TRAINING COURSE OFFERED BY YAMAHA ASK YOUR DEALER FOR DETAILS OR CALL 1-800-887-2887

If you have any questions about these points, or if you purchased your ATV from an authorized Yamaha dealership and were not informed of the age recommendation for your ATV by the dealership, please fill out the information below and mail this card to yamaha today.

Name:	ATV Model:	Purchase Date:
Address:	Primary I.D. (Engine Number	MO. DAY YR.
	Dealer Name & Address:	ard



ATTN: SALES ADMINISTRATION