

98motorcycle

OWNER'S MANUAL

XT350L XT350LC

LIT-11626-12-43

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 12 YEARS OLD SHOULD NOT OPERATE AN ATV WITH ENGINE SIZE 70CC OR GREATER
- 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:
		1 1 1
Address:	Primary I.D. (Engine Numbe	MO. DAY YR.
	Degler Name & Address:	
elephone:	Degler Name & Address:	



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ATTN: SALES ADMINISTRATION



Congratulations on your purchase of the Yamaha XT350/XT350C. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

This manual will give you an understanding of the operation, inspection, and basic maintenance of this motorcycle. If you have any questions about the operation or maintenance of your motorcycle, please consult a Yamaha dealer.

The design and manufacture of this Yamaha motorcycle fully comply with the emissions standards for clean air applicable at the date of manufacture. Yamaha has met these standards without reducing the motorcycle's performance or economy of operation. To maintain these high standards, it is important that you and your dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.

IMPORTANT MANUAL INFORMATION

EAU00003

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

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

NOTE: __

- This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.

IMPORTANT MANUAL INFORMATION

AWARNING

PLEASE READ THIS MANUAL AND THE "YOU AND YOUR MOTORCYCLE: RIDING TIPS" BOOKLET CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE. DO NOT ATTEMPT TO OPERATE THIS MOTORCYCLE UNTIL YOU HAVE ATTAINED A SATISFACTORY KNOWLEDGE OF ITS CONTROLS AND OPERATING FEATURES AND UNTIL YOU HAVE BEEN TRAINED IN SAFE AND PROPER RIDING TECHNIQUES. REGULAR INSPECTIONS AND CAREFUL MAINTENANCE, ALONG WITH GOOD RIDING SKILLS, WILL ENSURE THAT YOU SAFELY ENJOY THE CAPABILITIES AND THE RELIABILITY OF THIS MOTORCYCLE.

EW000000



EAU01399

XT350L/XT350LC
OWNER'S MANUAL
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1st Edition, September 1998
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Printed in Japan
P/N LIT-11626-12-43

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TWO-WHEELED MOTORCYCLES ARE SINGLE TRACK VEHICLES. THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR. EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING.

HE OR SHE SHOULD:

- 1. OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL ASPECTS OF MOTORCYCLE OPERATION.
- 2. OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MAN-UAL.
- 3. OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES.
- 4. OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS.

Safe riding

- 1. Always make pre-operation checks. Careful checks may help prevent an accident.
- 2. This motorcycle is designed to carry the operator and a passenger.
- 3. The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident.

Therefore:

- a. Wear a brightly colored jacket.
- b. Use extra caution when you approach and pass through intersections, since intersections are the most likely places for motorcycle accidents.
- c. Ride where other motorists can see you. Avoid riding in another motorist's "blind spot".

- 4. Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
 - a. Make sure you are qualified. Also, only lend your motorcycle to experienced operators.
 - b. Know your skills and limits. Staying within your limits may help you to avoid an accident.
 - c. We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with your motorcycle and all of its controls.
- 5. Many motorcycle accidents have been caused by motorcycle operator errors. A typical error made by the operator is veering wide on a turn due to EXCESSIVE SPEED or undercornering (insufficient lean angle for the speed).
 - a. Always obey the speed limits and never travel faster than warranted by road and traffic conditions.
 - b. Always signal before turning or changing lanes. Make sure other motorists see you.
- 6. The operator's and passenger's posture are important for proper control.
 - a. The operator should keep both hands on the handlebars and both feet on the operator footrests during operation to maintain control of the motorcycle.
 - b. The passenger should always hold on to the operator, or the seat strap or grab bar if the motorcycle is so equipped with both hands and keep both feet on the passenger footrests.
 - c. Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.
- 7. Never ride under the influence of alcohol or drugs.



Protective apparel

The majority of fatalities from motorcycle accidents are the result of head injuries.

The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries.

- 1. Always wear an approved helmet.
- 2. Wear a face shield or goggles. Wind on your unprotected eyes could contribute to an impairment of vision which could delay seeing a hazard.
- 3. The use of heavy boots, jacket, trousers, gloves, etc. is effective in preventing or reducing abrasions or lacerations.
- 4. Never wear loose fitting clothing. It could catch on the control levers, footrests, or wheels and cause injury or accident.
- 5. Never touch the engine or exhaust system during or after operation. They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.
- 6. A passenger should also observe the above precautions.

Modification

Modifications made to the motorcycle not approved by Yamaha, or the removal of original equipment, may render your motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use.

Loading and accessories

Adding accessories or cargo to your motorcycle can adversely affect stability and handling if the weight distribution of the machine is changed. To avoid the possibility of an accident, extreme caution should be used if adding cargo or accessories to your motorcycle. Use extra care if riding a motorcycle which has added cargo or accessories. Here are some general guidelines to follow if loading cargo or adding accessories to your motorcycle:

Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 348 lbs. (158 kg) XT350/346 lbs (157 kg) XT350C.

When loading within these weight limits, keep the following in mind:

- Cargo and accessory weight should be kept as low and close to the motorcycle as possible.
 Be sure to distribute the weight as evenly as possible on both sides of the machine to minimize imbalance or instability.
- 2. Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the motorcycle before riding. Recheck accessory mounts and cargo restraints frequently.
- 3. Never attach any large or heavy items to the handlebars, front forks, or front fender. These items, including such cargo as sleeping bags, duffle bags, or tents, can create unstable handling or slow steering response.

Accessories

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories which may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. You should use extreme caution when selecting and installing any accessories.

Keep in mind these guidelines for mounting accessories in addition to those provided under "LOADING".

 Never install accessories or carry cargo that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.



- a. Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.
- b. Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds. These accessories may also cause instability when being passed by or passing large vehicles.
- c. Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability. Therefore such accessories are not recommended.
- 2. Caution must be used if adding electrical accessories. If these accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

Gasoline and exhaust gas

- 1. GASOLINE IS HIGHLY FLAMMABLE:
 - a. Always turn off the engine when refueling.
 - b. Take care not to spill any gasoline on the engine or exhaust system when refueling.
 - c. Never refuel while smoking or in the vicinity of an open flame.
- 2. Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation.
- 3. Always turn off the engine before leaving the motorcycle unattended and remove the ignition key. When parking the motorcycle, note the following:

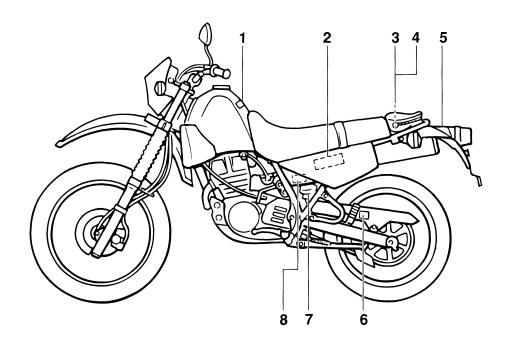
- a. The engine and exhaust system may be hot. Park the motorcycle in a place where pedestrians or children are not likely to touch these hot areas.
- b. Do not park the motorcycle on a slope or soft ground; the motorcycle may fall over.
- c. Do not park the motorcycle near a flammable source, e.g. a kerosene heater, or near an open flame. The motorcycle could catch fire.
- 4. When transporting the motorcycle in another vehicle, be sure it is kept upright and that the fuel cock(s) is turned to "ON" or "RES" (for vacuum type)/"OFF" (for manual type). If it should lean over, gasoline may leak out of the carburetor or fuel tank.
- 5. If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get in your eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash it off with soap and water and change your clothes.



LOCATION OF THE IMPORTANT LABELS

Please read the following labels carefully before operating this motorcycle.

EAU00025





1

A WARNING

• BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.

• ALWAYS WEAR AN APPROVED MOTORCYCLE

HELMET, eye protection, and protective clothing.

2

CAUTION

- Read owner's manual before servicing battery. Electrolyte will damage metal parts or paint.
- If electrolyte spills, wash area with fresh water immediately.

Be sure to connect breather hose after installing battery.

3

A WARNING

Improper loading can cause loss of control. Read owner's manual for proper loading.

5

4

LOAD LIMIT

3 kg {7 lbs}

3TB-24877-A0

≜WARNING **NEVER** sit here.

3MX-24875-A0

6

TIRE INFORMATION

Cold tire normal pressure should be set as follows.

• Up to 90 kg (198 lbs) load FRONT : 125 kPa, {1.25 kgf/cm²}, 18 psi REAR : 150 kPa, {1.50 kgf/cm²}, 22 psi • 90 kg (198 lbs)~maximum load

FRONT: 150 kPa, {1.50 kgf/cm²}, 22 psi **REAR**: 175 kPa, {1.75 kgf/cm²}, 25 psi

YAMAHA

7

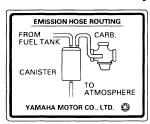
A WARNING

This unit contains high pressure nitrogen gas. Mishandling can cause explosion.

- Read owner's manual for instructions.
- Do not incinerate, puncture or open.

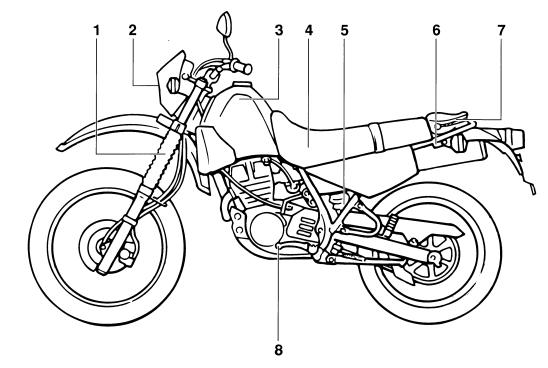
YAMAHA

8 For California only



DESCRIPTION

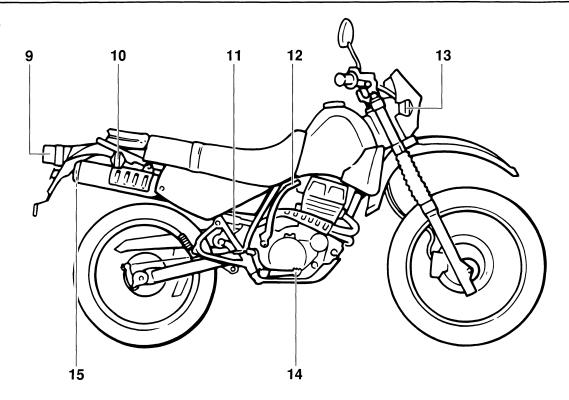
Left view



- 1. Front fork (page 6-29)
- 2. Headlight (page 6-33)
- 3. Fuel tank (page 3-5)
- 4. Seat
- 5. Rear shock absorber damping force adjuster (page 3-11)

- 6. Helmet holder (page 3-9)
- 7. Storage porch (page 3-9)
- 8. Shift pedal (page 3-4, 5-4)

Right view

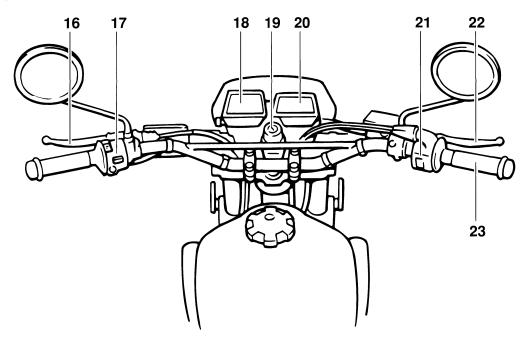


- 9. Tail/brake light
- 10. Rear turn signal light
- 11. Rear shock absorber spring preload adjusting nut (page 3-10)

- 12. Kick starter (page 3-9)
- 13. Front turn signal light
- 14. Rear brake pedal (page 3-5, 6-21)
- 15. Spark arrester (page 6-38)

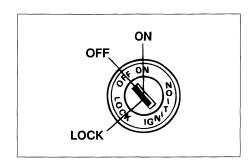
DESCRIPTION

Controls/Instruments



- 16. Clutch lever (page 3-4, 6-19)
- 17. Left handlebar switches (page 3-3)
- 18. Speedometer (page 3-2)
- 19. Main switch (page 3-1)

- 20. Tachometer (page 3-3)
- 21. Right handlebar switches (page 3-4)
- 22. Front brake lever (page 3-5, 6-20)
- 23. Throttle grip (page 6-27)



EAU00029

Main switch/Steering lock

The main switch controls the ignition and lighting systems. Its operation is described below.

EAU00035

ON:

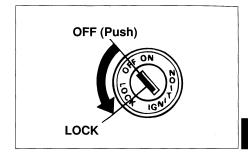
Electrical circuits are switched on and the taillight comes on. The engine can be started. The key cannot be removed in this position. NOTE: _

When the engine is started, the headlight and meter lights come on automatically, and the lights stay on until the main switch is turned to "OFF" even if the engine stalls.

EAU00038

OFF:

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



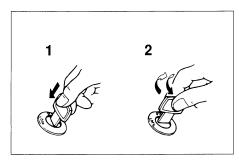
EAU00041

LOCK:

The steering is locked in this position and all electrical circuits are switched off. The key can be removed in this position.

To lock the steering, turn the handlebars all the way to the left or right. While pushing the key into the main switch, turn it from "OFF" to "LOCK" and remove it.

To release the lock, turn the key to "OFF" while pushing.

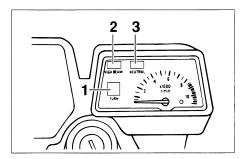


- Push Turn

EW000017

▲WARNING

Never turn the key to "LOCK" when the motorcycle is moving.



- Turn indicator light "TURN"
- High beam indicator light "HIGH BEAM"
- Neutral indicator light "NEUTRAL"

Indicator lights

EAU00059

Turn indicator light "TURN"

This indicator flashes when the turn switch is moved to the left or right.

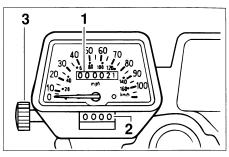
High beam indicator light "HIGH BEAM"

This indicator comes on when the headlight high beam is used.

EAU00062

Neutral indicator light "NEUTRAL"

This indicator comes on when the transmission is in neutral.



- Odometer
- Trip odometer
- Reset knob

Speedometer

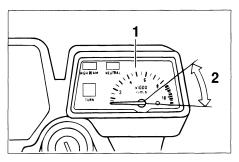
The speedometer shows riding This speedometer equipped with an odometer and trip odometer. The trip odometer can be reset to "0" with the reset knob. Use the trip odometer to estimate how far you can ride on a tank of fuel. This information will enable you to plan fuel stops in the future.

EAU00095

Horn switch "HORN"

INSTRUMENT AND CONTROL FUNCTIONS

Press the switch to sound the horn.



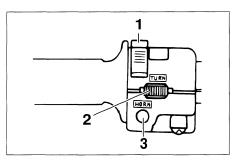
- 1. Tachometer
- 2. Red zone

Tachometer

This model is equipped with a tachometer so the rider can monitor the engine speed and keep it within the ideal power range.

CAUTION:

Do not operate in the red zone. Red zone: 8,500 r/min and above



- 1. Dimmer switch "LIGHTS"
- 2. Turn signal switch "TURN"
- 3. Horn switch "HORN"

EAU00102

Handlebar switches

EAU00118

EAU00122

Dimmer switch "LIGHTS"

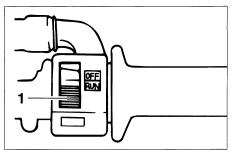
Turn the switch to "HI" for the high beam and to "LO" for the low beam.

EAU0012

Turn signal switch "TURN"

This is a three-position switch. The center position is off.

Turn to " $\mbox{}'\!\!\!\!/$ " to turn on the left flasher, and to " $\mbox{}'\!\!\!\!\!/$ " for the right flasher. Be sure to turn the switch off after completing a turn.

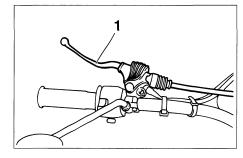


1. Engine stop switch "ENGINE STOP"

EAU00137

Engine stop switch "ENGINE STOP"

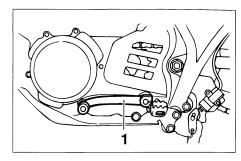
The engine stop switch is a safety device for use in an emergency such as when the motorcycle overturns or if trouble occurs in the throttle system. Turn the switch to "RUN" to start the engine. In case of emergency, turn the switch to "OFF" to stop the engine.



1. Clutch lever

Clutch lever

The clutch lever is located on the left handlebar. Pull the clutch lever to the handlebar to disengage the clutch, and release the lever to engage the clutch. The lever should be pulled rapidly and released slowly for smooth clutch operation.



1. Shift pedal

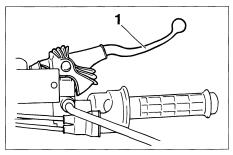
EAU00155

Shift pedal

This motorcycle is equipped with a constant-mesh 6-speed transmission.

EAU00157

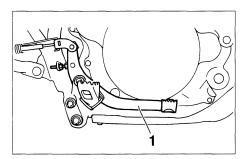
The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting.



1. Front brake lever

Front brake lever

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

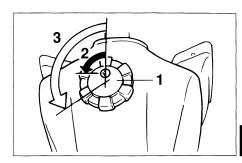


1. Rear brake pedal

EAU00158

Rear brake pedal

The rear brake pedal is on the right side of the motorcycle. Press down on the brake pedal to apply the rear brake.



- 1. Fuel tank cap
- 2. Unlock
- 3. Open

EAU00162

EAU00177

Fuel tank cap

TO OPEN:

Insert the key and turn it 1/4 turn counterclockwise. Turn the cap 1/3 turn counterclockwise and remove it from the tank.

TO CLOSE:

Put the cap in the filler neck and turn it 1/3 turn clockwise. Lock the cap by turning the key 1/4 turn clockwise, and remove the key.

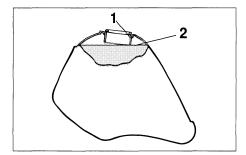
NOTE: ___

The tank cap cannot be reinstalled unless it is unlocked. The key must remain in the cap until the cap is properly installed and locked onto the fuel tank.

EW000023

AWARNING

Be sure the cap is properly installed and locked in place before riding the motorcycle.



- 1. Filler tube
- 2. Fuel level

Fuel

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

EW000130

EAU01183

AWARNING

Do not overfill the fuel tank. Avoid spilling fuel on the hot engine. Do not fill the fuel tank above the bottom of the filler tube or it may overflow when the fuel heats up later and expands.

CAUTION:

EAU00185

Always wipe off spilled fuel immediately with a dry and clean soft cloth. Fuel may deteriorate painted surfaces or plastic parts.

EAU00189

Recommended fuel: UNLEADED FUEL Fuel tank capacity:

Total:

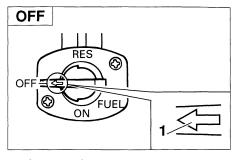
12.0 L (2.6 Imp gal, 3.2 US gal) Reserve:

2.0 L (0.4 lmp gal, 0.5 US gal)

Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number ([R+M]/2) of 86 or higher, or research octane number of 91 or higher. If knocking or pinging occurs, use a different brand of gasoline or premium unleaded fuel. Unleaded fuel will give you longer spark plug life and reduced maintenance cost. If unleaded gasoline is not available, then leaded regular gasoline can be used.

Gasohol

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



1. Arrow mark

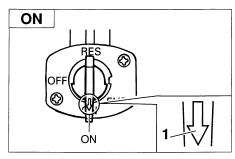
Fuel cock

EAU01121

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

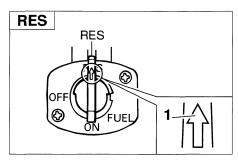
The fuel cock has three positions, which should be set as shown in the illustrations.

OFF: With the fuel cock in this position, fuel will not flow. Always set the fuel cock to this position when the engine is not running.



1. Arrow mark

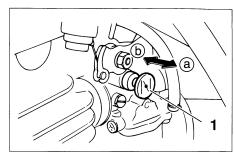
ON: With the fuel cock in this position, fuel flows to the carburetor. Set the fuel cock to this position when starting the engine and while riding.



1. Arrow mark

RES: This indicates reserve. If you run out of fuel while riding, set the fuel cock to this position.

Fill the tank at the first opportunity. Be sure to set the fuel cock back to "ON" after refueling!



1. Starter(choke) "|\"

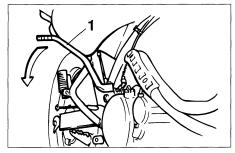
Starter(choke) "|×|"

EAU00210

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture. Move in direction (a) to turn on the starter(choke).

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

EAU00261

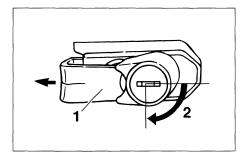


1. Kick starter

EAU00212

Kick starter

Rotate the kick starter away from the engine. Push the starter down lightly with your foot until the gears engage, then kick smoothly and forcefully to start the engine. This model has a primary-coupled kick starter so the engine can be started in any gear if the clutch is disengaged. However, shifting to neutral before starting is recommended.



- 1. Helmet holder
- 2. Unlock

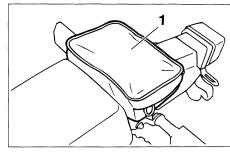
Helmet holder

To open the helmet holder, insert the key in the lock and turn it as shown.

To lock the helmet holder, turn the key to its original position.

AWARNING

Never ride with a helmet in the helmet holder. The helmet may hit objects, causing loss of control and possibly an accident.



1. Storage pouch

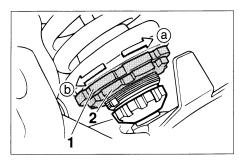
Storage pouch

EAU00280

EW000033

AWARNING

Do not exceed maximum load. Maximum load: 3 kg (7 lbs)



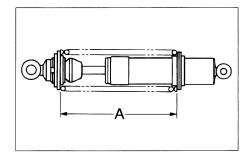
- 1. Adjusting nut
- 2. Locknut

EAU00302

Rear shock absorber adjustment

This shock absorber is equipped with a spring preload and damping adjuster.

- 1. Adjust spring preload as follows.
- a. Loosen the locknut.
- b. Turn adjusting nut in direction
 (a) to increase spring preload and in direction (b) to decrease spring preload.



Measuring distance "A":
Standard length:
225.5 mm (8.9 in)
Minimum length (hard):
213 mm (8.4 in)
Maximum length (soft):
234 mm (9.2 in)

EC000019

CAUTION:

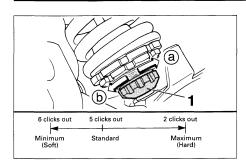
Never attempt to turn the adjusting nut beyond the maximum or minimum setting.

c. Tighten the locknut to the specified torque.

Tightening torque: Locknut: 70 Nm (7.0 m·kg, 50 ft·lb)

CAUTION:

Always tighten the locknut against the spring adjusting nut and tighten the locknut to the specified torque.



- 1. Damping force adjuster
- 2. Adjust damping force as follows.

Turn adjuster in direction (a) to increase damping force and in direction (b) to decrease damping force.

Standard:	5 clicks out*
Minimum (soft):	6 clicks out*
Maximum (hard):	2 clicks out*

^{*:} From the fully turned-in position

CAUTION:

setting.

Never attempt to turn the adjuster beyond the maximum or minimum

AWARNING

EAU00315

This shock absorber contains highly pressurized nitrogen gas. Read and understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for property damage or personal injury that may result from improper handling.

- 1. Do not tamper with or attempt to open the cylinder assembly.
- Do not subject the shock absorber to an open flame or other high heat source. This may cause the unit to explode due to excessive gas pressure.
- Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping performance.
- 4. Take your shock absorber to a Yamaha dealer for any service.

AWARNING

Sidestand

EAU00330

This model is equipped with an ignition circuit cut-off system. The motorcycle must not be ridden when the sidestand is down. The sidestand is located on the left side of the frame. (Refer to page 5-1 for an explanation of this system.)

EW000044

This motorcycle must not be operated with the sidestand in the down position. If the stand is not properly retracted, it could contact the ground and distract the operator, resulting in a possible loss of control. Yamaha has designed into this motorcycle a lockout system to assist the operator in fulfilling the responsibility of retracting the sidestand. Please check carefully the operating instructions listed below and if there is any indication of a malfunction, return the motorcycle to a Yamaha dealer immediately for repair.

EAU0033

Sidestand switch operation check

Check the operation of the sidestand switch against the information below.

TURN THE MAIN SWITCH TO "ON" AND THE ENGINE STOP SWITCH TO "RUN".

TRANSMISSION IS IN NEUTRAL AND SIDESTAND IS DOWN.

KICK THE KICK STARTER.

ENGINE WILL START.

PULL IN CLUTCH LEVER AND PUT THE TRANSMISSION IN GEAR.

ENGINE WILL STALL.

SIDESTAND SWITCH IS OK.

EW000045

AWARNING

If improper operation is noted, consult a Yamaha dealer immediately.

•

PRE-OPERATION CHECKS

Owners are personally responsible for their vehicle's condition. Your motorcycle's vital functions can start to deteriorate quickly and unexpectedly, even if it remains unused (for instance, if it is exposed to the elements). Any damage, fluid leak or loss of tire pressure could have serious consequences. Therefore, it is very important that, in addition to a thorough visual inspection, you check the following points before each ride.

PRE-OPERATION CHECK LIST

EAU00340

ITEM	CHECKS	PAGE
Front brake	Check operation, free play, fluid level and vehicle for fluid leakage. Fill with DOT 4 (or DOT 3) brake fluid if necessary.	6-20, 6-22 ~ 6-24
Rear brake	Check operation, condition and free play. Adjust if necessary.	6-21 ~ 6-23
Clutch	Check operation, condition and free play. Adjust if necessary.	6-19 ~ 6-20
Throttle grip and housing	Check for smooth operation. Lubricate if necessary.	6-27
Engine oil	Check oil level. Fill with oil if necessary.	6-10 ~ 6-13
Drive chain	Check chain slack and condition. Adjust if necessary.	6-25 ~ 6-26
Wheels and tires	Check tire pressure, wear, damage and spoke tightness. Tighten spokes if necessary.	6-16 ~ 6-18
Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened. Tighten if necessary.	_

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Lights, signals and switches	Check for proper operation.	3-3 ~ 3-4, 6-33 ~ 6-34
Battery	Check fluid level. Fill with distilled water if necessary.	6-30 ~ 6-32

N.	1	т	

Pre-operation checks should be made each time the motorcycle is used. Such an inspection can be thoroughly accomplished in a very short time; and the added safety it assures is more than worth the time involved.

▲WARNING

- 1. The engine, exhaust system will be very hot after the engine has been run.

 Be careful not tho touch them or to allow any clothing item to contact them during inspection or repair.
- 2. If any item in the PRE-OPERATION CHECKS is not working properly, have it inspected and repaired before operating the motorcycle.

CAUTION:

AWARNING

EAU00373

- Before riding this motorcycle, become thoroughly familiar with all operating controls and their functions. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- Never start your engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and can cause loss of consciousness and death within a short time. Always operate your motorcycle in an area with adequate ventilation.
- 3. Before starting out, always be sure the sidestand is up. Failure to retract the sidestand completely can result in a serious accident when you try to turn a corner.

- Be careful where you store personal items on the motorcycle. Avoid blocking the air cleaner intake or performance will suffer.
- Be careful not to put anything near the battery and its terminals. Electrical failure and acid corrosion may result.

EAU00376

EAU01427

Starting and warming up a cold engine

NOTE: -

This motorcycle is equipped with an ignition circuit cut-off system. The engine can be started only under the following conditions:

- a. The transmission is in neutral.
- b. The sidestand is up, the transmission is in gear and the clutch is disengaged.

The motorcycle must not be ridden when the sidestand is down.

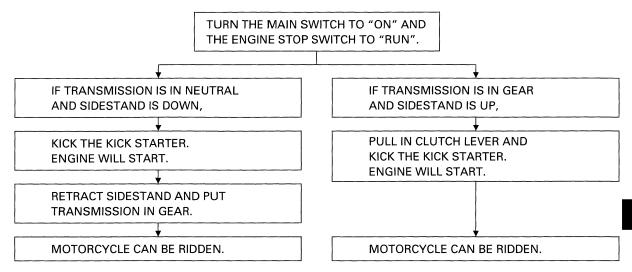
EW000056

AWARNING

Before going through the following steps, check the function of the sidestand switch. (Refer to page 3-12.)

_

OPERATION AND IMPORTANT RIDING POINTS



- 1. Turn the fuel cock to "ON".
- Turn the main switch to "ON" and the engine stop switch to "RUN".
- 3. Shift transmission into neutral.

NOTE:

When the transmission is in neutral, the neutral indicator light should be on. If the light does not come on, ask a Yamaha dealer to inspect it.

- 4. Turn on the starter (choke) and completely close the throttle grip.
- 5. Kick the kick starter to start the engine.
- After starting the engine, turn off the starter (choke). The starter operation periods differ with the ambient temperature, so refer to the following notes.

NOTE: ___

- The engine is warm when it responds normally to the throttle with the starter turned off. To avoid the possibility of excessive exhaust emissions, never leave the starter circuit on longer than necessary. The length of time the starter is needed depends upon the ambient temperature. Warm ambient temperatures (above 10°C/50°F) require about 25 seconds of starter use. Cold ambient temperatures (below 10°C/50°F) require about 35 seconds with the starter turned on, then about 2.5 minutes with the starter in the halfway position.
- For maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine.

EAU01439

Starting a warm engine

Do not use the starter(choke). Instead, start the engine with the throttle grip slightly opened.

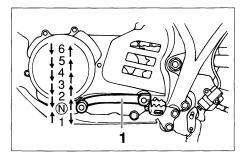
NOTE: _

If the engine does not start after several kicks, open the throttle grip 1/4 to 1/2 and try starting again.

CAUTION:

EC000046

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



N. Neutral 1. Shift pedal

Shifting

EAU00423

The transmission lets you control the amount of power you have available at a given speed for starting, accelerating, climbing hills, etc. The use of the shift pedal is shown in the illustration.

To shift into neutral, depress the shift pedal repeatedly until it reaches the end of its travel, then raise the pedal slightly.

EC000048

1. Do not coast for long periods with the engine off, and do not tow the motorcycle a long distance. Even with gears in neutral, the transmission is only properly lubricated when engine is running. Inadequate Iubrication may damage the transmission.

CAUTION:

2. Always use the clutch when changing gears. The engine, transmission, and driveline are not designed to withstand the shock of forced shifting and can be damaged by shifting without using the clutch.

To start out and accelerate:

1. Pull the clutch lever to disengage the clutch.

- 2. Shift into first gear. The neutral indicator light should go
- 3. Open the throttle gradually, and at the same time, release the clutch lever slowly.
- 4. At the recommended shift point in the table on page 5-5, close the throttle, and at the same time, quickly pull in the clutch lever.
- 5. Shift into second gear. (Be careful not to shift into neutral.)
- 6. Open the throttle part way and gradually release the clutch lever.
- 7. Follow the same procedure when shifting to the next higher gear.

Always shift gears at the recommended shift points.

EAU00427

To decelerate:

- 1. Apply both the front and the rear brakes at the same time to slow the motorcycle.
- When the motorcycle reaches 20 km/h (12.5 mi/h), shift into first gear. Any time the engine is about to stall or runs very roughly, pull in the clutch and use the brakes to stop.
- When the motorcycle is almost completely stopped, shift into neutral. The neutral indicator light should come on.

EAU0043

Recommended shift point

	Acceleration shift point km/h(mi/h)	Deceleration shift point km/h(mi/h)
1st → 2nd	20 (12.5)	20 (12.5)
2nd → 3rd	30 (18.6)	20 (12.5)
3rd → 4th	40 (24.9)	20 (12.5)
4th → 5th	50 (31.0)	20 (12.5)
5th → 6th	60 (37.0)	20 (12.5)

Engine break-in

EAU0043

There is never a more important period in the life of your motorcycle than the period between zero and 1,000 km (600 mi). For this reason we ask that you carefully read the following material. Because the engine is brand new, you must not put an excessive load on it for the first 1,000 km (600 mi). 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 which might result in excessive heating of the engine, must be avoided.

EAU0044

- 1. 0 ~ 500 km (0 ~ 300 mi):

 Avoid operation above 4,000 r/min. Stop the engine and let it cool for 5 to 10 minutes after every hour of operation. Vary the speed of the motorcycle from time to time. Do not operate it at one set throttle position.
- 2. 500 ~ 1,000 km (300 ~ 600 mi): Avoid prolonged operation above 5,000 r/min. Rev the motorcycle freely through the gears, but do not use full throttle at any time.

CAUTION:

After 1,000 km (600 mi) of operation, be sure to replace the engine oil and clean the oil filter element and oil strainer.

3. 1,000 km (600 mi) and beyond: Full throttle can be used.

EC000053

• Never let engine speeds enter the red zone.

CAUTION:

 If any engine trouble should occur during the break-in period, consult a Yamaha dealer immediately. Parking

EAU00457

When parking the motorcycle, stop the engine and remove the ignition key. Turn the fuel cock to "OFF" whenever stopping the engine.

AWARNING

EW000058

The exhaust system is hot. Park the motorcycle in a place where pedestrians or children are not likely to touch the motorcycle. Do not park the motorcycle on a slope or soft ground; the motorcycle may overturn.

EAU00463

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

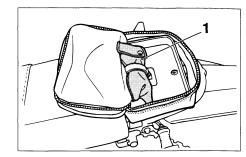
"Maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual using any part which is certified (if applicable)".

EW00006

AWARNING

If you are not familiar with motorcycle service, this work should be done by a Yamaha dealer. PERIODIC MAINTENANCE

PROPER PERIODIC MAINTENANCE YOUR MOTORCYCLE IMPORTANT IN ORDER TO ENJOY LONG, PLEASURABLE SERVICE. **ESPECIALLY IMPORTANT ARE THE** MAINTENANCE SERVICES RELAT-ED TO EMISSIONS CONTROL. THESE CONTROLS NOT ONLY FUNCTION TO ENSURE CLEANER AIR BUT ARE ALSO VITAL TO PROPER ENGINE OPERATION AND MAXIMUM PERFORMANCE. IN THE FOLLOWING TABLES OF MAINTENANCE, THE PERIODIC SERVICES RELATED TO EMIS-SIONS CONTROL ARE GROUPED SEPARATELY. THESE SERVICES REQUIRE **SPECIALIZED** KNOWLEDGE, AND EQUIPMENT. YAMAHA DEALERS ARE TRAINED AND EQUIPPED TO PERFORM THESE PARTICULAR SERVICES.



1. Tool kit

Tool kit

EAU00468

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing some of your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are to assist you in the performance of periodic maintenance. However, some other tools such as a torque wrench are also necessary to perform the maintenance correctly.

NOTF:			

If you do not have necessary tools required during a service operation, take your motorcycle to a Yamaha dealer for service.

W000062

AWARNING

Modifications to this motorcycle not approved by Yamaha may cause loss of performance, excessive emissions, and render it unsafe for use. Consult a Yamaha dealer before attempting any changes.

EAU00471

PERIODIC MAINTENANCE CHART FOR EMISSION CONTROL SYSTEM

Γ				INITIAL		ODO	METER READ	DINGS	
N	Ю.	ITEM	ROUTINE	1,000 km (600 mi) ^{or} 1 month	**1 7,000 km (4,400 mi) or 7 months	**2 13,000 km (8,200 mi) or 13 months		(15,800 mi) or	
1	*	Valve clearance	Check and adjust valve clearance when engine is cold.	0	0	0	0	0	0
2		Spark plug	Check condition. Adjust gap and clean. Replace at 13,000 km (or 13 months) and thereafter every 12,000 km (or 12 months).		0	Replace	0	Replace	0
3	*	Crankcase ventilation system	Check ventilation hose for cracks or damage. Replace if necessary.		0		0		0
4	*	Fuel line	Check fuel hose for cracks or damage.Replace if damage.		0	0	0	0	0
5	*	Exhaust system	Check for leakage. Retighten if necessary. Replace gasket (s) if necessary.		0	0	0	0	0
6		Spark arrester	Clean.		0	0	0	0	0
7	*	Idle speed	Check and adjust engine idle speed.Adjust cable free play.		0	0	0	0	0
8	*	Decompression	Check and adjust decomp-cable free play after velve clearance maintenance.		0	0	0	0	0

			INITIAL	ODOMETER READINGS				
N	D. ITEM	ROUTINE	1,000 km (600 mi) or 1 month		(8,200 mi) or	19,000 km (12,000 mi) or 19 months	(15,800 mi) or	(19,600 mi) or
9	Evaporative * emission control system**	Check control system for damage. Replace if necessary.				0		0

^{*} Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer.

NOTE: _

For farther odometer reading, repeat the above maintenance at the period established;

**1: Every 6,000 km (3,800 mi) and **2: Every 12,000 km (7,600 mi) intervals.

^{**} For California.

EAU00472

GENERAL MAINTENANCE AND LUBRICATION CHART

				INITIAL		ODO	METER READ	DINGS	
NC). ITEM	ROUTINE	TYPE	1,000 km (600 mi) or 1 month	**1 7,000 km (4,400 mi) or 7 months	**2 13,000 km (8,200 mi) or 13 months	19,000 km (12,000 mi) or 19 months	**3 25,000 km (15,800 mi) or 25 months	31,000 km (19,600 mi) or 31 months
1	Engine oil	Warm-up engine before draining.	See page 8-1	0	0	0	0	0	0
2	Oil filter/ strainer	Replace filter element and clean oil strainer. Replace oil strainer if damaged.	_	0		0		0	
3	* Air filter	Wet type filter must be washed and dampened with oil.	Yamaha foam-air- filter oil or SAE 10W30 motor oil		0	0	0	0	0
4	* Brake system	Adjust free play. Check fluid leakage. (Front) (see NOTE page 6-7) Correct if necessary. Replace pads if necessary.(Front) Replace shoes if necessary.(Rear)		0	0	0	0	0	0
5	* Clutch	Adjust free play.	_	0	0	0	0	0	0
6	Drive chain	Check chain condition. Adjust and lubricate chain thoroughly.	SAE 30 ~ 50W motor oil or chain lubricants suitable for "O-ring"chains.	Every 500 km (300 mi)					
7	Control and meter cable	Apply chain lube thoroughly.	Yamaha chain and cable lube or SAE 10W30 motor oil	0	0	0	0	0	0

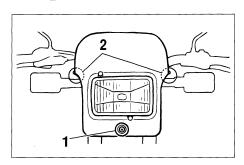
Г					INITIAL		ODO	METER READ	DINGS	
N	IO.	ITEM	ROUTINE	TYPE	1,000 km (600 mi) or 1 month	**1 7,000 km (4,400 mi) or 7 months	**2 13,000 km (8,200 mi) or 13 months		**3 25,000 km (15,800 mi) or 25 months	31,000 km (19,600 mi) or 31 months
8	*	Rear arm pivot shaft and suspension link pivots	Apply until new grease shows.	Lithium soap base grease.		0	0	.0	0	0
9		Brake/Clutch lever pivot shaft	Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		0	0	0	0	0
10		Brake pedal and shift pedal shaft	Lubricate.Apply chain lube lightly.	Yamaha chain and cable lube or SAE 10W30 motor oil.		0	0	0	0	0
11		Sidestand pivot and kick crank boss	 Check operation and lubricate. Apply chain lube lightly. 	Yamaha chain and cable lube or SAE 10W30 motor oil.		0	0	0	0	0
12	*	Front fork	 Check operation and leakage. 	_		0	0	0	0	0
13	*	Steering bearings	Check bearing assembly for looseness. Moderately repack every 24,000 km (15,000 mi)	Medium weight wheel bearing grease.		0	0	0	Repack	0
14	*	Wheel bearings	Check bearing for smooth rotation	_		0	0	0	0	0
15		Battery	 Check specific gravity. Check that the breather pipe is working properly. Correct if necessary. 	_		0	0	0	0	0

		INITIAL	ODOMETER READINGS						
NC	. ITEM	ROUTINE	ТҮРЕ	1,000 km (600 mi) or 1 month	(4,400 mi) or	**2 13,000 km (8,200 mi) or 13 months	(12,000 mi) or	(15,800 mi) or	(19,600 mi) or
16	Sidestand switch	 Check and clean or replace if necessary. 	_	0	0	0	0	0	0

^{*} Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer.

NOTE:

- For farther odometer reading, repeat the above maintenance at the period established;
 - **1: Every 6,000 km (3,800 mi) **2: Every 12,000 km (7,600 mi) and **3: Every 24,000 km (15,200 mi) intervals.
- Brake fluid replacement:
 - 1. When disassembling the master cylinder or caliper cylinder, relpace the brake fluid. Normally check the brake fluid level and add fluid as required.
 - 2. On the inner parts of the master cylinder and caliper cylinder, replace the oil seals every two years.
 - 3. Replace the brake hoses every four years, or if cracked or damaged.



- Screw
 Pull

EAU01145

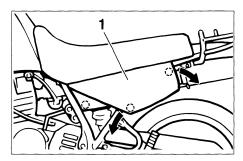
Cowling A

To remove:

Remove the cowling screw and pull outward on the areas shown.

To install:

Place in the original position and install the screw.



1. Panel A

EAU00494

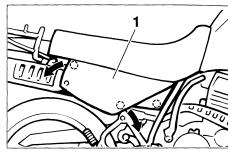
Panel A and B

To remove:

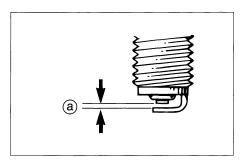
Pull outward on the areas shown.

To install:

Place the panel in its original position.



1. Panel B



a. Spark plug gap

EAU00495

Spark plug inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine. The ideal color on the white insulator around the center electrode is a medium-to-light tan color for a motorcycle that is being ridden normally.

Do not attempt to diagnose any problems yourself. Instead, take the motorcycle to a Yamaha dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Specified spark plug: D8EA / D9EA (NGK) or X24ES-U / X27ES-U (DENSO)

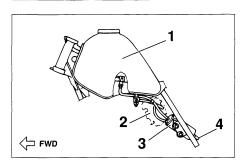
Before installing the spark plug, measure the electrode gap with a wire thickness gauge; adjust the gap to specification as necessary.

Spark plug gap: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in) When installing the plug, always clean the gasket surface and use a new gasket. Wipe off any grime from the threads and tighten the spark plug to the specified torque.

Tightening torque: Spark plug: 17.5 Nm (1.75 m·kg, 12.5 ft·lb)

NOTE: ___

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



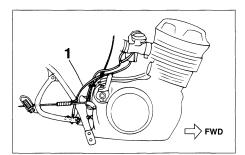
- 1. Fuel tank
- 2. Carburetor
- 3. Canister
- 4. Vent hose

EAU00498

Canister (for California only)

This model is equipped with a canister to prevent the discharging of fuel vapor into the atmosphere. Before using this motorcycle be sure to:

- 1. Check each hose connection.
- 2. Check each hose and canister for cracks or damage. Replace if damaged.
- 3. Make sure the vent hose is not blocked. Clean it if necessary.



1. Overflow pipe

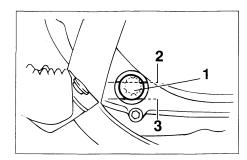
Engine oil

- 1. Oil level inspection
- a. Place the motorcycle on a level place and hold it in an upright position. Warm up the engine for several minutes.

NOTE:

Be sure the motorcycle is positioned straight up when checking the oil level. A slight tilt toward the side can result in false readings.

6

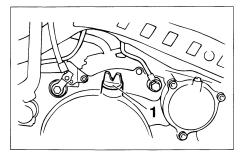


- 1. Level window
- 2. Maximum level mark
- 3. Minimum level mark
 - b. With the engine stopped, check the oil level through the level window located at the lower part of the right side crankcase cover.

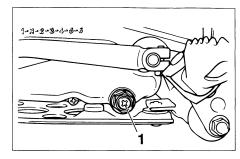


Wait a few minutes until the oil level settles before checking.

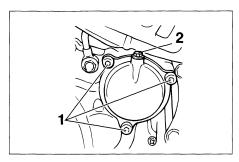
c. The oil level should be between the maximum and minimum marks. If the level is low, fill the engine with sufficient oil to reach the specified level.



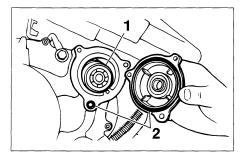
- 1. Engine oil filler cap
- 2. Engine oil replacement and oil filter element cleaning
- a. Warm up the engine for a few minutes.
- b. Stop the engine. Place an oil pan under the engine and remove the oil filler cap.



- 1. Engine oil drain plug
 - c. Remove the drain plug and air bleed screw.



- 1. Filter cover screw (x3)
- 2. Air bleed screw
 - d. Check each gasket. If damaged, replace.
 - e. Remove the filter cover screws and the oil filter cover.



- 1. Oil filter element
- 2. O-ring (×2)

NOTE: __

The oil filter cover is secured by three screws. The lower one should be removed first so that the filter cavity will drain.

- f. Clean the oil filter with solvent. Replace if necessary.
- g. Check the O-ring. If damaged, replace it.
- h. Install the drain plug, filter cover, screws and air bleed screw. Then tighten to the specified torque.

NOTE

Make sure the O-ring is seated properly.

Tightening torque:

Drain plug:

43 Nm (4.3 m·kg, 31 ft·lb)

Filter cover screw:

10 Nm (1.0 m·kg, 7.2 ft·lb)

Air bleed screw:

5 Nm (0.5 m·kg, 3,6 ft·lb)

i. Fill engine with oil. Install the oil filler cap and tighten it.

6

Recommended oil:
See page 8-1
Oil quantity:
Total amount:
1.6 L (1.4 Imp qt, 1.7 US qt)
Periodic oil change:
1.3 L (1.1 Imp qt, 1.4 US qt)
With oil filter replacement:
1.4 L (1.2 Imp qt, 1.5 US qt)

CAUTION:

EC000066

 Do not put in any chemical additives. Engine oil also lubricates the clutch and additives could cause clutch slippage.

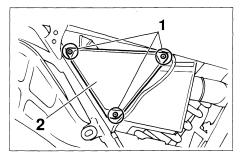
- Be sure no foreign material enters the crankcase.
- j. Start the engine and warm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.
- k. Stop the engine and check the oil level.

CAUTION:

EC00007

After replacing the engine oil, be sure to check the oil pressure as described below.

- 1. Remove the air bleed screw from the oil filter cover.
- Start the engine and keep it idling until oil flows out of the bleed hole. If no oil comes out after one minute, turn off the engine immediately so it will not seize. In such a case go to the nearest Yamaha dealer for repairs.
- 3. After checking, tighten the air bleed screw securely.
- 3. Oil strainer cleaning
 Ask a Yamaha dealer to do this
 service.



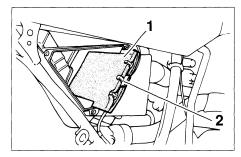
- 1. Air filter case fitting screw (x3)
- 2. Air filter case cover

EAU01438

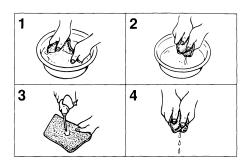
Air filter

The air filter should be cleaned at the specified intervals. It should be cleaned more frequently when riding in unusually wet or dusty areas.

- Remove panel B. (See page 6-8 for removal and installation procedures.)
- Remove the air filter case fitting screws and the filter case cover.
- 3. Remove the air filter from the case.



- 1. Air filter element
- 2. Guide
 - 4. Remove the air filter element from its guide and clean it with solvent. After cleaning, remove the remaining solvent by squeezing the element.



 Apply recommended oil to the entire surface of the element and squeeze out the excess oil. It should be wet but not dripping.

Recommended oil:

Yamaha foam air filter oil or
other quality air filter oil

- 6. Insert the air filter guide into the air filter and install it in the case.
- 7. Install the air filter case cover and panel.

CAUTION:

EC000082

Carburetor adjustment

EAU00627

- Make sure the air filter is properly seated in the air filter case.
- The engine should never be run without the air filter installed. Excessive piston and/or cylinder wear may result.

The carburetor is a vital part of the engine and its emission control system. Adjusting should be left to a Yamaha dealer with the professional knowledge, specialized data and equipment to do so properly.

EAU00637

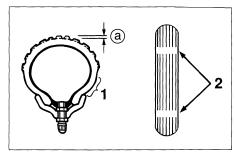
Valve clearance adjustment

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

Decompression cable adjustment

The decompression cable stretches with use, resulting in improper decompression function. To prevent this, the decompression cable must be adjusted regularly. This adjustment, however, should be left to a Yamaha dealer.

EAU00638



- a. Tread depth
- 1. Side wall
- 2. Wear indicator

EAU00645

Tires

To ensure maximum performance, long service, and safe operation, note the following:

1. Tire air pressure
Always check and adjust the tire pressure before operating the motorcycle.

AWARNING

AWARNING

EW000082

Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature. Tire inflation pressure must be adjusted according to total weight of cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model), and vehicle speed.

Maximum load*	158 kg (348 lbs) (XT350) 157 kg (346 lbs) (XT350C)				
Cold tire pressure:	Front	Rear			
Up to 90 kg (198 lb) load*	125 kPa (1.25 kgf/cm², 18 psi)	150 kPa (1.50 kgf/cm², 22 psi)			
90 kg (198 lb) load ~ Maximum load*	150 kPa (1.50 kgf/cm², 22 psi)	175 kPa (1.75 kgf/cm², 25 psi)			

^{*} Load is the total weight of cargo, rider, passenger and accessories.

EW000083

Proper loading of your motorcycle is important for several characteristics of your motorcycle, such as handling, braking, performance and safety. Do not carry loosely packed items that can shift. Securely pack your heaviest items close to the center of the motorcycle, and distribute the weight evenly from side to side. Properly adjust the suspension for your load, and check the condition and pressure of your tires. NEVER OVERLOAD YOUR MOTORCYCLE. Make sure the total weight of the cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model) does not exceed the maximum load of the motorcycle. Operation of an overloaded motorcycle could cause tire damage, an accident, or even

2. Tire inspection

Always check the tires before operating the motorcycle. If a tire tread shows crosswise lines (minimum tread depth), if the tire has a nail or glass fragments in it, or if the side wall is cracked, contact a Yamaha dealer immediately and have the tire replaced.

FRONT:

Manufacturer	Size	Type
BRIDGESTONE	3.00-21 51P	TRAIL WING-25

REAR:

Manufacturer	Size	Type
BRIDGESTONE	110/80-18 58P	TRAIL WING-26

Minimum tire tread	
depth:	1.0 mm (0.04 in)
(front and rear)	

injury.

EAU00685

EAU00680

AWARNING

- It is dangerous to ride with a worn-out tire. When a tire tread begins to show lines, have a Yamaha dealer replace the tire immediately. Brakes, tires, and related wheel parts replacement should also be left to a Yamaha dealer.
- 2. Patching a punctured tube is not recommended. If it is absolutely necessary to do so, use great care and replace the tube as soon as possible with a good quality replacement.

Wheels

To ensure maximum performance, long service, and safe operation, note the following:

- 1. Always inspect the wheels before a ride. Check for cracks, bends or warpage of the wheel. Be sure the spokes are tight and undamaged. If any abnormal condition exists in a wheel, consult a Yamaha dealer. Do not attempt even small repairs to the wheel. If a wheel is deformed or cracked, it must be replaced.
- Tires and wheels should be balanced whenever either one is changed or replaced. Failure to have a wheel balanced can result in poor performance, adverse handling characteristics, and shortened tire life.

 Ride at moderate speeds after changing a tire since the tire surface must first be broken in for it to develop its optimal characteristics.

EAU0069

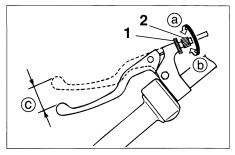
Accessories or replacement parts

AWARNING

EW000098

EV

This motorcycle is not designed to pull a trailer or to be attached to a accessories sidecar. The replacement parts you choose for motorcycle should vour designed specifically for it, and they must be securely mounted to maintain the inherent stability of original design. Genuine Yamaha Parts and Accessories are designed and tested to be compatible with your motorcycle. Please consider Genuine Yamaha Parts and Accessories before making an accessory purchase. Use of non-Yamaha-approved parts or accessories may cause loss of handling stability and riding safety. Since Yamaha cannot control the quality of parts or accessories manufactured by other companies, Yamaha cannot be held liable for any consequences caused by the use of items which have not been approved by Yamaha.



- 1. Locknut
- 2. Adjusting bolt
- c. Free play

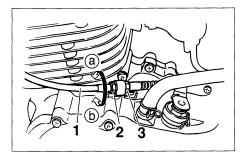
EAU00694

Clutch lever free play adjustment

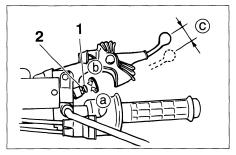
The clutch lever free play should be adjusted to $10 \sim 15$ mm (0.39 ~ 0.59 in).

- 1. Loosen the locknut at the clutch lever.
- Turn the adjusting bolt at the clutch lever in direction (a) to increase free play or in direction (b) to decrease free play.
- 3. Tighten the locknut at the clutch lever.

If the specified free play cannot be obtained, proceed with the following steps.



- 1. Clutch cable
- 2. Adjusting nut
- 3. Locknut
- 4. Loosen the locknut at the clutch lever.
- 5. Turn the adjusting bolt at the clutch lever in direction (a) to loosen the cable.
- 6. Loosen the locknut at the crankcase side.
- 7. Turn the adjusting nut at the crankcase in direction (a) to increase free play or in direction (b) to decrease free play.
- 8. Tighten the locknut at the crankcase and the clutch lever.



- 1. Adjusting bolt
- 2. Locknut
- c. Free play

EAU00696

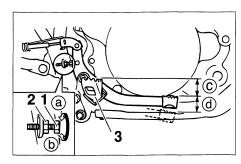
Front brake lever free play adjustment

The free play at the front brake lever should be $5 \sim 8$ mm (0.20 \sim 0.31 in).

- 1. Loosen the locknut.
- 2. Turn the adjusting bolt in direction (a) to increase free play or in direction (b) to decrease free play.
- 3. After adjusting, tighten the locknut.

AWARNING

- Check the brake lever free play. Be sure the brake is working properly.
- A soft or spongy feeling in the brake lever can indicate the presence of air in the brake system. This air must be removed by bleeding the brake system before the motorcycle is operated. Air in the system will cause greatly diminished braking capability and can result in loss of control and an accident. Have a Yamaha dealer inspect and bleed the system if necessary.



- 1. Brake pedal height adjusting bolt
- 2. Locknut
- 3. Footrest
- c. Pedal height
- d. Free play

EAU00707

Rear brake pedal height and free play adjustment

EW/00010

AWARNING

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

1. Pedal height

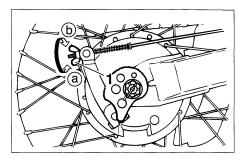
The brake pedal should be positioned so that its top end is approximately 15 mm (0.6 in) below the top of the footrest.

- a. Loosen the locknut.
- b. Turn the adjusting bolt in direction (a) to raise pedal height or in direction (b) to lower pedal height.
- c. Tighten the locknut.

EW000105

AWARNING

After adjusting the pedal height adjust brake pedal free play.



1. Brake pedal free play adjusting nut

2. Free play

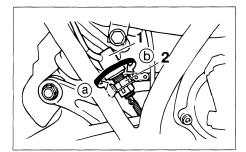
The rear brake pedal free play should be adjusted to $20 \sim 30$ mm (0.8 ~ 1.2 in) at the brake pedal end. Turn the adjusting nut on the brake rod in direction (a) to increase free play or in direction (b) to decrease free play.

6

AWARNING

EW000106

- Brake pedal free play should be checked whenever the chain is adjusted or the rear wheel is removed and then reinstalled.
- Check the operation of the brake light after adjusting the rear brake.
- If it is impossible to make proper adjustment, consult a Yamaha dealer.



- 1. Brake light switch
- 2. Adjusting nut

FRONT

a. Thickness

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00713

EAU00720

Brake light switch adjustment

The rear brake light switch is activated by the brake pedal and is properly adjusted when the brake light comes on just before braking takes effect. To adjust the rear brake light switch, hold the switch body so it does not rotate while turning the adjusting nut.

Turn the adjusting nut in direction (a) to make the brake light come on earlier.

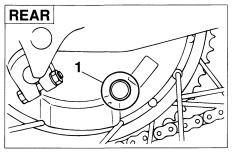
Turn the adjusting nut in direction **(b)** to make the brake light come on later.

Checking the front brake pads and rear brake shoes

AU01436

FRONT

Check the brake pads for damage and wear. If the thickness is less than 0.8 mm (0.031 in), have a Yamaha dealer replace the pads.



Remove the cap and inspect the

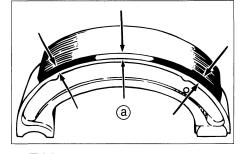
brake shoe. If the thickness is less

than 2 mm (0.08 in), have a Yamaha dealer replace the shoes.

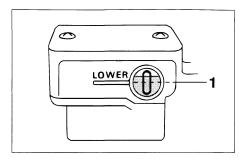
1. Cap

REAR

EAU01431



a. Thickness



1. Minimum level mark

EAU00732

Inspecting the brake fluid level

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective.

Before riding, check that the brake fluid is above the minimum level and fill when necessary.

Observe these precautions:

 When checking the fluid level, make sure the top of the master cylinder is level by turning the handlebars.

6-23

 Use only the designated quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance.

Recommended brake fluid: DOT 4

NOTE: If DOT 4 is not available, DOT 3 can

be used.

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
- 4. Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.

- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- 6. Have a Yamaha dealer check the cause if the brake fluid level goes down.

EAU00742

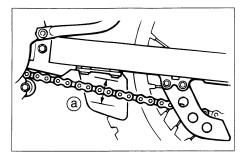
Brake fluid replacement

The brake fluid should be replaced only by trained Yamaha service personnel.

Have the Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking:

- a. oil seals (every two years)
- b. brake hoses (every four years)

3



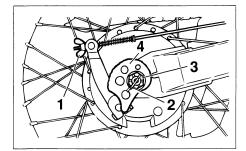
a. Chain slack

Drive chain slack check

NOTE: _

Spin the wheel several times and find the tightest position of the chain. Check and/or adjust the chain slack while it's in this tightest position.

To check the chain slack the motor-cycle must be held straight up with both wheels on the ground and without rider. Check the slack at the position shown in the illustration. Normal slack is approximately $30 \sim 40$ mm (1.2 ~ 1.6 in). If the slack exceeds 40 mm (1.6 in), adjust.



- 1. Rear brake pedal free play adjusting nut
- 2. Cotter pin

EAU00744

- 3. Axle nut
- Chain adjusting plate

EAU01302

Drive chain slack adjustment

- 1. Loosen the rear brake pedal free play adjusting nut.
- 2. Remove the cotter pin from the axle nut.
- 3. Loosen the axle nut.
- Turn both left and right chain adjusting plates the same amount. Make sure that they are in the same position for proper wheel alignment.

CAUTION:

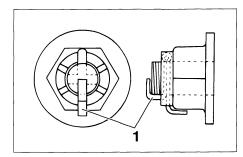
Too little chain slack will overload the engine and other vital parts. Keep the slack within the specified limits.

After adjusting, be sure to tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

110 Nm (11 m·kg, 80 ft·lb)



- 1. Cotter pin
- 6. Insert a new cotter pin into the axle nut and bend the end of the cotter pin as shown in the illustration. If the notch in the nut and cotter pin hole do not match, tighten the nut slightly to align them.

▲WARNING

Always use a new cotter pin on the axle nut.

7. Adjust the free play in the brake pedal.

Check the operation of the brake light after adjusting the rear brake.

AWARNING

EW000103

Drive chain lubrication

The chain consists of many parts which work with each other. If the chain is not maintained properly, it will wear out quickly. Therefore, the chain must be serviced regularly. This service is especially necessary when riding in dusty areas. This motorcycle is equipped with a sealed type chain. Steam cleaning, high-pressure washes, and solvents can damage chain so do not use these for cleaning it. Use only kerosene to clean the drive chain. Wipe it dry, and thoroughly lubricate it with SAE 30 ~ 50W motor oil. Do not use any other lubricants on the drive chain. They may contain solvents that could damage the sealed chain.

CAUTION:

Be sure to oil the chain after washing the motorcycle or riding in the rain.

EAU00771

Cable inspection and lubrication

AWARNING

EW000111

Damage to the outer housing of cables may allow internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.

Lubricate the inner cable and the cable end. If it does not operate smoothly, ask a Yamaha dealer to replace them.

Recommended lubricant:
Yamaha Chain and Cable
Lube or SAE 10W30 motor oil

EAU00773

Throttle cable and grip lubrication

The throttle twist grip assembly should be greased at the time that the cable is lubricated, since the grip must be removed to get at the end of the throttle cable. After removing the screws, hold the end of the cable up in the air and put in several drops of lubricant. With the throttle grip disassembled, coat the metal surface of the grip assembly with a suitable all-purpose grease.

EAU00775

Brake and shift pedal lubrication

Lubricate the pivoting parts.

Recommended lubricant: Yamaha Chain and Cable Lube or SAE 10W30 motor oil EAU00777

Brake and clutch lever lubrication

Lubricate the pivoting parts.

Recommended lubricant: Yamaha Chain and Cable Lube or SAE 10W30 motor oil

Sidestand Iubrication

Lubricate the sidestand pivoting and mating parts. Check to see that the sidestand moves up and down smoothly.

Recommended lubricant: Yamaha Chain and Cable Lube or SAE 10W30 motor oil

AWARNING

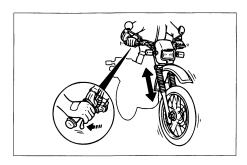
If the sidestand does not move smoothly, consult a Yamaha dealer.

EAU00784

Rear suspension lubrication

Lubricate the pivoting parts.

Recommended lubricant: Lithium soap base grease



Front fork inspection

EAU00793

EW000115

AWARNING

Securely support the motorcycle so there is no danger of it falling over.

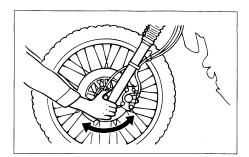
Visual check
 Check for scratches or damage on the inner tube and excessive oil leakage from the front fork.

- Operation check Place the motorcycle on a level place.
- a. Hold the motorcycle in an upright position and apply the front brake.
- b. Push down hard on the handlebars several times and check if the fork rebounds smoothly.

EC000098

CAUTION:

If any damage or unsmooth movement is found with the front fork, consult a Yamaha dealer.



Steering inspection

EAU00794

Periodically inspect the condition of the steering. Worn out or loose steering bearings may be dangerous. Place a stand under the engine to raise the front wheel off the ground. Hold the lower end of the front forks and try to move them forward and backward. If any free play can be felt, ask a Yamaha dealer to inspect and adjust the steering. Inspection is easier if the front wheel is removed.

EW000115

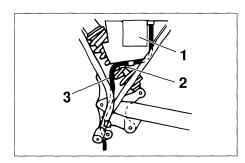
AWARNING

Securely support the motorcycle so there is no danger of it falling over.

Wheel bearings

AU01144

If there is play in the front or rear wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer inspect the wheel bearings.



- 1. Battery
- 2. Guide
- 3. Battery breather hose

FALI01071

Battery

Check the level of the battery electrolyte and make sure that the terminals are tight.

Fill with distilled water if the electrolyte level is low.

CAUTION:

EC000099

When inspecting the battery, be sure the breather hose is routed correctly. If the breather hose is positioned in such a way as to cause battery electrolyte or gas to exit onto the frame, structural and cosmetic damage to the motorcycle can occur.

6

AWARNING

EW000116

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing.

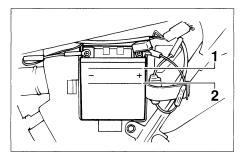
Antidote:

EXTERNAL: Flush with water.

INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call a physician immediately.

EYES: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes etc., away. Ventilate when charging or using in an enclosed space. Always shield your eyes when working near batteries.

KEEP OUT OF REACH OF CHIL-DREN.



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

Replenishing the battery fluid

A poorly maintained battery will corrode and discharge quickly. The battery fluid should be checked at least once a month. The level should be between the minimum level and maximum level marks. Use only distilled water if refilling is necessary.

CAUTION:

EC000100

Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

EW000117

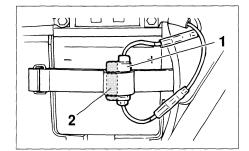
AWARNING

Take care not to spill battery fluid on the chain. Battery fluid may weaken the chain causing shorter chain life and possibly result in an accident

EAU00804

Battery storage

- When the motorcycle will not be used for a month or longer, remove the battery, fully charge it and store it in a cool, dry place. Completely recharge the battery before reinstallation.
- If the battery will be stored for longer than two months, check the specific gravity of the fluid at least once a month and fully recharge the battery when it is too low.
- Always make sure the connections are correct when putting the battery back in the motorcycle. Make sure the breather hose is properly connected and is not damaged or obstructed.



- 1. Fuse
- 2. Spare fuse

Fuse replacement

If the fuse is blown, turn off the main switch and the switch of the circuit in question. Install a new fuse of specified amperage. Turn on the switches and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer.

Do not use fuses of higher amperage rating than those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possibly a fire.

Specified fuse: 10A

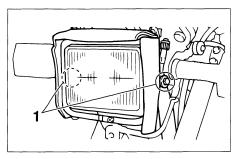
6

EAU01158

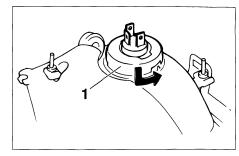
Headlight bulb replacement

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

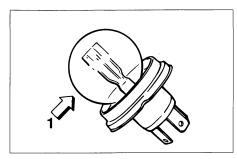
 Remove cowling A. (See page 6-8 for removal and installation procedures.)



- 1. Bolt (×2)
- 2. Remove the headlight unit by removing the bolts.



- 1. Bulb holder
- 3. Remove the headlight connector and the bulb holder cover.
- 4. Turn the bulb holder counterclockwise to remove it and then remove the defective bulb.



1. Don't touch

EW000119

▲WARNING

Keep flammable products and your hands away from a bulb while it is on, as it is hot. Do not touch a bulb until it cools down.

- 5. Put a new bulb into position and secure it in place with the bulb holder.
- 6. Install the bulb holder cover, connector and headlight unit.
- 7. Install the cowling.
- If the headlight beam adjustment is necessary, ask a Yamaha dealer to make that adjustment.

EAU0086

Supporting the motorcycle

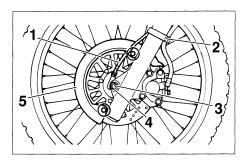
Since the Yamaha XT350 has no centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright.

Front wheel service:

To stabilize the rear of the motorcycle, either use a motorcycle stand or place a motorcycle jack under the frame in front of the rear wheel to prevent it from moving from side to side. Then use a motorcycle stand to elevate the front wheel off of the ground. Rear wheel service:

Use a motorcycle stand or motorcycle jack to elevate the motorcycle so the rear wheel is off the ground. Alternatively, two jacks can be placed under the frame or swingarm.

Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability.



- 1. Speedometer cable
- 2. Speedometer cable holder
- 3. Axle nut
- 4. Cotter pin
- 5. Disc cover

Front wheel removal

EAU00905

AWARNING

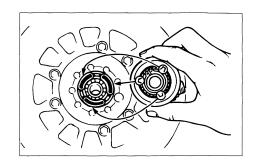
EW000122

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so there is no danger of it falling over.
- 1. Remove the speedometer cable holder.

- 2. Remove the speedometer cable from the front wheel side.
- 3. Remove the disc cover.
- 4. Remove the cotter pin and wheel axle nut.
- 5. Elevate the front wheel by placing a suitable stand under the engine.
- Remove the wheel axle and the front wheel. Make sure the motorcycle is properly supported.

N	O.	

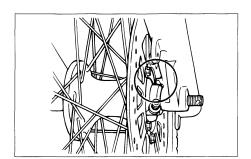
Do not depress the brake lever when the disc and caliper are separated.



EAU01420

Front wheel installation

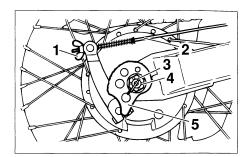
1. Install the speedometer gear unit housing into the wheel hub. Make sure the projections are meshed into the slots.



- 5. Install the speedometer cable.
- 6. Install a new cotter pin.

AWARNING

Always use a new cotter pin.



- 1. Brake pedal free play adjusting nut
- 2. Brake rod
- 3. Cotter pin
- 4. Axle nut

EW000124

5. Chain adjusting plate

EAU01304

Rear wheel removal

EW000122

AWARNING

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so there is no danger of it falling over.
- 1. Remove the brake pedal free play adjusting nut and brake rod from the brake cam lever.

 Lift up the wheel between the front fork legs. Make sure that there is enough gap between the brake pads before inserting the brake disc and that the slot in the speedometer gear unit housing fits over the stopper on the front fork outer tube.

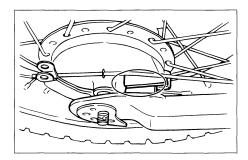
- Install the wheel axle and axle nut. Then let the motorcycle down.
- 4. Tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

110 Nm (11 m·kg, 80 ft·lb)

- 2. Remove the axle nut cotter pin and loosen the axle nut.
- Elevate the rear wheel by placing a suitable stand under the engine.
- 4. Remove the axle nut.
- 5. Push the wheel forward and remove the drive chain.
- 6. Pull out the axle, and remove the rear wheel assembly by pulling it backwards.



EAU01308

Rear wheel installation

- Install the wheel assembly and insert the axle from the lefthand side. Be sure that the chain adjusting plates are installed with the punched side outward and the slot in the brake shoe plate fits over the stopper on the swingarm.
- 2. Install and adjust the drive chain. (See page 6-25 for details about adjusting the drive chain slack.)

- 3. Install the axle nut and let the motorcycle down.
- 4. Tighten the axle nut to the specified torque and install a new axle nut cotter pin.

Tightening torque:

Axle nut:

110 Nm (11.0 m·kg, 80 ft·lb)

EW000110

▲WARNING

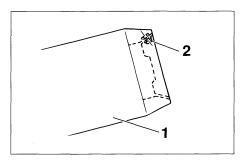
Always use a new cotter pin on the axle nut.

- Insert the brake rod into the brake cam lever and install the brake pedal free play adjusting nut.
- 6. Adjust the rear brake pedal free play. (See page 6-21.)

EW000103

AWARNING

Check the operation of the brake light after adjusting the rear brake.

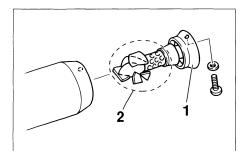


Muffler
 Screw

Spark arrester cleaning

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

1. Remove the screw.



1. Tailpipe

EAU01549

- 2. Spark arrester
- 2. Remove the tailpipe by pulling it out of the muffler.
- 3. Tap the tailpipe lightly, then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe.
- 4. Insert the tailpipe into the muffler and align the screw holes.
- 5. Install the screw and tighten it.

EWA0000

AWARNING

- Always let the exhaust system cool prior to touching exhaust components.
- Do not start the engine when cleaning the exhaust system.

Troubleshooting

EAU01008

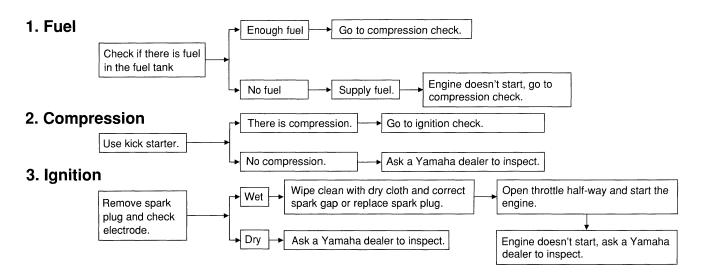
Although Yamaha motorcycles receive a rigid inspection before shipment from the factory, trouble may occur during operation.

Any problem in the fuel, compression, or ignition systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks.

If your motorcycle requires any repair, bring it to a Yamaha dealer. The skilled technicians at Yamaha dealership have the tools, experience, and know-how to properly service your motorcycle. Use only genuine Yamaha parts on your motorcycle. Imitation parts may look like Yamaha parts, but often thev are inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.

Troubleshooting chart EW000125

Never check the fuel system while smoking or in the vicinity of an open flame.



7

A. CLEANING

EAU01327

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

CAUTION:

ECA000

- Improper cleaning can damage the cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.

- 1. Before cleaning the motorcycle:
- a. Block off the end of the exhaust pipe to prevent water entry; a plastic bag and strong rubber band may be used.
- b. Make sure the spark plug and all filler caps are properly installed.
- 2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets, or wheel axles.
- 3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

CAUTION:

e pressure may

Excessive hose pressure may cause water seepage and deterioration of wheel bearings, front fork, brakes, transmission seals and electrical parts.

Many expensive repair bills have resulted from improper high pressure detergent applications such as those available in coin-operated car washers.

- After riding on salted roads, wash the motorcycle with cold water immediately. Do not use warm water as it increases the chemical reaction of the salt.
- 5. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.

CLEANING AND STORAGE

- 6. Rinse the motorcycle off immediately with clean water and dry all surfaces with a chamois, clean towel, or soft absorbent cloth.
- 7. Dry the chain and lubricate it to prevent rust.
- 8. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
- 9. Automotive-type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine and let it idle for several minutes.

B. STORAGE

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

- 1. Fill the fuel tank with fuel and add fuel stabilizer (if available).
- 2. Remove the spark plug, pour about one tablespoon engine oil in the spark plug hole and reinstall the spark plug. Turn the engine over several times (ground the spark plug lead) to coat the cylinder wall with oil.
- 3. Clean the chain and lubricate it (refer to "Drive chain lubrication").
- 4. Lubricate all control cables.
- 5. Block up the frame to raise both wheels off the ground.

EAU01504 6. Tie a plastic bag over the

> exhaust pipe outlet to prevent moisture from entering. 7. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film

of oil. Do not apply oil to any

rubber parts or the seat cover. 8. Remove the battery and fully charge it. Store it in a cool, dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C (30°F) or more than 30°C (90°F)). See page 6-32 for battery storage

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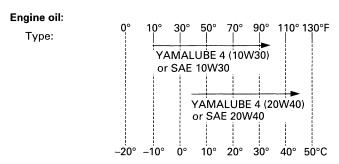
procedures.

Make any necessary repairs before storing the motorcycle.

8

Specifications

Model	XT350L/XT350LC
Dimensions:	
Overall length	2,240 mm (88.2 in)
Overall width	865 mm (34.1 in)
Overall height	1,210 mm (47.6 in)
Seat height	855 mm (33.7 in)
Wheelbase	1,420 mm (55.9 in)
Ground clearance	275 mm (10.8 in)
Minimum turning radius	2,100 mm (82.7 in)
Basic weight (with oil and full fuel tank):	130 kg (287 lb) XT350L 131 kg (289 lb) XT350LC
Engine:	
Engine type	Air-cooled 4-stroke, DOHC
Cylinder arrangement	Forward inclined single cylinder
Displacement	346 cm³
Bore × Stroke	86.0 × 59.6 mm (3.39 × 2.35 in)
Compression ratio	9:1
Starting system	Kick starter
Lubrication system	Wet sump



Recommended engine oil classification:

API Service SE, SF, SG type or higher

CAUTION:

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

Quantity:

Periodic oil change 1.3 L (1.14 Imp qt, 1.37 US qt)
With oil filter replacement 1.4 L (1.23 Imp qt, 1.48 US qt)
Total amount 1.6 L (1.41 Imp qt, 1.69 US qt)

SPECIFICATIONS

Operation

Air filter: Gear ratio 2.466 Wet type element 1st 2nd Fuel: 1.812 Unleaded fuel 3rd 1.363 Type Fuel tank capacity 12 L (2.6 Imp gal, 3.2 US gal) 4th 1.080 2 L (0.4 Imp gal, 0.5 US gal) 5th 0.888 Fuel reserve amount 6th 0.758 Carburetor: Type x quantity Y24PV × 1 Chassis: TEIKEI Frame type Diamond Manufacturer 27.17° Caster angle Spark plug: Type / Manufacturer D8EA, D9EA / NGK or Trail 107 mm (4.21 in) X24ES-U, X27ES-U / DENSO Tire: 0.6 ~ 0.7 mm (0.024 ~ 0.028 in) With tube Gap Type Clutch type: Wet, multiple-disc Size: Front 3.00-21 51P Transmission: 110/80-18 58P Primary reduction system Spur gear Rear Manufacturer / model: Primary reduction ratio 3.130 Chain drive Front Bridgestone / TRAIL WING-25 Secondary reduction system 2.894 Rear Bridgestone / TRAIL WING-26 Secondary reduction ratio 158 kg (348 lb) XT350L Number of sprocket teeth: Maximum load* Rear / Frout 55 / 19 157 kg (346 lb) XT350LC Transmission type Constant mesh 6-speed

Left foot operation

SPECIFICATIONS

Air pressure (cold tire):

Up to 90 kg (198 lb) load*:

Front

125 kPa; 1.25 kgf/cm2; 18 psi

Rear

150 kPa; 1.50 kgf/cm2; 22 psi

90 kg (198 lb) load ~

maximum load*:

Front

150 kPa; 1.50 kgf/cm2; 22 psi

Rear

175 kPa; 1.75 kgf/cm²; 25 psi

*Load is total weight of cargo, rider, passenger and accessories.

Wheels:

Type:

Front

Spoke

Rear

Spoke

Size:

Front

1.60 × 21

Rear

2.15 × 18

Brakes:

Front:

Type

Single disc brake

Operation

Right hand operation

Fluid

DOT 4 or DOT 3

Rear:

Type

Drum brake

Operation

Right foot operation

Suspension:

Front:

Type

Telescopic fork

Rear:

Type

Swingarm (new monocross)

Coil spring / gas-oil damper

Shock absorbers:

Front Rear Coil spring / oil damper

Wheel travel:

Front

255 mm (10.04 in)

Rear

220 mm (8.66 in)

Electrical system:

Ignition system:

C.D.I.

Charging system:

Type

C.D.I. magneto

Standard output

14V, 2A @ 3,000 rpm

Battery:

Type

GM3-3B, FB3L-B

Voltage, capacity

12V, 3 AH

SPECIFICATIONS

Headlight type Bulb type

Bulb voltage, wattage \times quantity:

 $\begin{tabular}{ll} Headlight & 12V, 45W / 40W \times 1 \\ Tail / brake light & 12V, 8W / 27W \times 1 \\ Turn signal light & 12V, 27W \times 4 \\ Meter light & 12V, 3.4W \times 2 \\ Neutral indicator light & 12V, 3.4W \times 1 \\ High beam indicator light & 12V, 3.4W \times 1 \\ Turn indicator light & 12V, 3.4W \times 1 \\ \end{tabular}$

Fuse:

Main fuse 10A

Vehicle identification

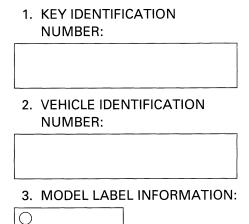
The vehicle identification number is stamped into the steering head pipe.

Record this number in the space provided.

The vehicle identification number motorcycle with the authority in your state.

Identification numbers record

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



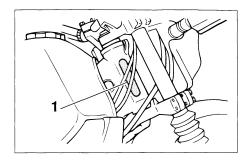
1. Key identification number

EAU01042

Key identification number

The key identification number is stamped on the key.

Record this number in the space provided and use it for reference when obtaining a new key.



1. Vehicle identification number

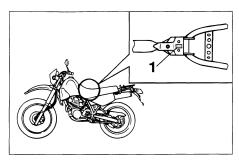
EAU01043

NOTE: -

number

is used to identify your motorcycle and may be used to register your licensing

CONSUMER INFORMATION



1. Model label

Model label

EAU01049

The model label is affixed to the location shown in the figure. Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.

REPORTING SAFETY DEFECTS

EAU01051

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying YAMAHA MOTOR CORP. U.S.A.. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or YAMAHA MOTOR CORP. U.S.A..

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

EAU01053

MOTORCYCLE 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

EAU01059

MAINTENANCE RECORD

Copies of work orders and/or receipts for parts you purchase and install will be required to document that maintenance has been completed in accordance with the emission 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 SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1,000 km (600 mi) or 1 mo.				
7,000 km (4,400 mi) or 7 mos.				
13,000 km (8,200 mi) or 13 mos.				
19,000 km (12,000 mi) or 19 mos.				
25,000 km (15,800 mi) or 25 mos.				

CONSUMER INFORMATION

MAINTENANCE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
31,000 km (19,600 mi) or 31 mos.				
37,000 km (23,400 mi) or 37 mos.				
43,000 km (27,200 mi) or 43 mos.				
49,000 km (31,000 mi) or 49 mos.				
55,000 km (34,800 mi) or 55 mos.				
61,000 km (38,600 mi) or 61 mos.				

EAU01061

YAMAHA MOTOR CORPORATION, U.S.A. STREET AND ENDURO MOTORCYCLE LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants each new model Yamaha motorcycle 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 motorcycles originally equipped with headlight, stoplight, and turn signals shall be one (1) year from the date of purchase, with no mileage limitation.

MODELS EXCLUDED FROM WARRANTY include those used for non-Yamaha-authorized renting, leasing, or other commercial purposes, and TZ models.

DURING THE PERIOD OF WARRANTY any authorized Yamaha motorcycle 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

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance.

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

- Operate and maintain the motorcycle as specified in the appropriate Owner's Manual, and
- Give notice to an authorized Yamaha motorcycle 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, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha motorcycle 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.

EMISSIONS CONTROL SYSTEM WARRANTY

Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each Yamaha motorcycle covered by this warranty with a displacement of 50cc or greater, 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 periods listed immediately below. Failure 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.

ENGINE

 DISPLACEMENT
 PERIOD

 50cc to 169cc
 12,000 km (7,465 miles)

or five years, whichever occurs first

170cc to 279cc 18,000 km (11,185 miles) or five years, whichever occurs first

280cc or over 30,000 km (18,641 miles) or five years, whichever occurs first

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

CONSUMER INFORMATION

WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
- The customer's responsibility includes all costs of normal maintenance services, nonwarranty 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?
- These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high-rpm, 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. 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 Yamaha Motorcycle dealer.
- Q. Will the warranty be void or cancelled if I do not operate or maintain my new motorcycle exactly as specified in the Owner's Manual?
- A. No. The warranty on a new motorcycle cannot be "voided" or "cancelled." However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty.
- O. What responsibility does my dealer have under this warranty
- A. Each Yamaha Motorcycle dealer is expected to:

 - 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 Motorcycle 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 Motorcycle dealer for the policy to remain effective.

CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha Motorcycle 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 motorcycle, please advise us of your new address by sending a postcard listing your motorcycle 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.

EAU01063

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. 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.

9

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







YAMAHA EXTENDED SERVICE

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