



**YAMAHA**

**Motorcycle**

**OWNER'S MANUAL**

***TTR225S***  
***TTR225SC***

LIT-11626-17-39

5FG-F8199-E5

 **WARNING**

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

YAMAHA

LIT-CALIF-65-01



AFFIX DEALER

LABEL HERE

EAU00008

**TTR225S / TTR225SC  
OWNER'S MANUAL**

**© 2003 Yamaha Motor da Amazônia Ltda.  
1st edition, June 2003**

**All rights reserved. Any reprinting or  
unauthorized use without the written  
permission of Yamaha Motor da Amazônia  
Ltda. is expressly prohibited.  
Printed in Brazil.**

# INTRODUCTION

Congratulations on your purchase of the YAMAHA TTR225S / TTR225SC. 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.

## IMPORTANT MANUAL INFORMATION

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



The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

### **WARNING:**

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

### **CAUTION:**

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

### **NOTE:**

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

** WARNING:**

---

**PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MACHINE. 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.**

---

** WARNING:**

---

**THIS MACHINE IS DESIGNED AND MANUFACTURED FOR OFF-ROAD USE ONLY. IT IS ILLEGAL TO OPERATE THIS MACHINE ON ANY PUBLIC STREET, ROAD OR HIGHWAY. SUCH USE IS PROHIBITED BY LAW. THIS MACHINE COMPLIES WITH ALMOST ALL STATE OFF-HIGHWAY NOISE LEVEL AND SPARK ARRESTER LAWS AND REGULATIONS. PLEASE CHECK YOUR LOCAL RIDING LAWS AND REGULATIONS BEFORE OPERATING THIS MACHINE.**

---

 **SAFETY INFORMATION**

**TWO-WHEELED MACHINES 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 MACHINE OPERATION.**
- 2. OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MANUAL.**
- 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 machine is designed for off-road use only. It is illegal for this machine to be operated on any public street, road, or highway. Off-road use on public lands may be illegal. Please check local regulations before riding.**
- 3. This machine is designed to carry the operator only. No passengers.**
- 4. Many accidents involve inexperienced operators.**
  - a. Know your skills and limits. Staying within your limits may help you to avoid an accident.**
  - b. Only lend your machine to experienced operators.**
- 5. Many machine accidents have been caused by machine 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). Never travel faster than warranted by conditions.**
- 6. Ride cautiously in unfamiliar areas. You may encounter hidden obstacles which could cause an accident.**



7. The operator's posture is important for proper control. The operator should keep both hands on the handlebars and both feet on the operator footrests during operation to maintain control of the machine.
8. Never ride under the influence of alcohol or drugs.

### **PROTECTIVE APPAREL**

The majority of fatalities from machine 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.

### **MODIFICATION**

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

## **ACCESSORIES AND LOADING**

**Adding accessories or cargo to your machine 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 machine.**

**Use extra care if riding a machine which has added cargo or accessories. Genuine Yamaha accessories have been specifically designed for use on this machine. 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".**

- 1. Never install accessories or carry cargo that would impair the performance of your machine. 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 machine due to aerodynamic effects. Wind may attempt to lift the machine, or the machine 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 machine'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 machine unattended and remove the ignition key. When parking the machine, note the following:**
  - a. **The engine and exhaust system may be hot. Park the machine in a place where pedestrians or children are not likely to touch these hot areas.**
  - b. **Do not park the machine on a slope or soft ground; the machine may fall over.**
  - c. **Do not park the machine near a flammable source, e. g. a kerosene heater, or near an open flame. The machine could catch fire.**
4. **When transporting the machine in another vehicle, be sure it is kept upright and that the fuel cock 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.**

# CONTENTS

<b>LOCATION OF THE IMPORTANT LABELS .....</b>	<b>1-1</b>	<b>PRE-OPERATION CHECKS .....</b>	<b>3-1</b>
<b>DESCRIPTION .....</b>	<b>2-1</b>	Brakes .....	3-3
<b>MACHINE IDENTIFICATION .....</b>	<b>2-3</b>	Brake fluid leakage .....	3-4
Vehicle identification number .....	2-3	Clutch .....	3-4
Model label .....	2-3	Throttle grip .....	3-4
<b>CONTROL FUNCTIONS .....</b>	<b>2-4</b>	Engine oil .....	3-4
Main switch .....	2-4	Chain .....	3-5
Clutch lever .....	2-5	Tires .....	3-5
Shift pedal .....	2-6	Wheels .....	3-7
Front brake lever .....	2-6	Accessories or replacement parts .....	3-7
Rear brake pedal .....	2-6	Fitting/Fasteners .....	3-8
Fuel tank cap .....	2-6	Switches .....	3-8
Fuel cock .....	2-7	Fuel .....	3-8
Starter knob (choke) .....	2-7	<b>OPERATION AND IMPORTANT RIDING POINTS ..</b>	<b>4-1</b>
Steering lock .....	2-8	Starting the engine .....	4-2
Seat removal .....	2-9	Starting a cold engine .....	4-4
Side cover removal .....	2-10	Starting a warm engine .....	4-5
Rear shock absorber .....	2-11	Shifting .....	4-5
Clutch switch operation check .....	2-12	Engine Break-in .....	4-6
		Parking .....	4-7

## **PERIODIC MAINTENANCE AND MINOR REPAIRS .. 5-1**

Tool kit ..... 5-2

### **PERIODIC MAINTENANCE/LUBRICATION .. 5-3**

Torque specifications ..... 5-5

Engine oil ..... 5-6

Air filter ..... 5-11

Carburetor adjustment ..... 5-12

Idle speed adjustment ..... 5-13

Throttle cable adjustment ..... 5-14

Valve clearance adjustment ..... 5-14

Spark plug inspection ..... 5-15

Front brake adjustment ..... 5-16

Rear brake adjustment ..... 5-17

Checking the front brake pads and rear brake shoes ..... 5-19

Inspecting the brake fluid level ..... 5-20

Brake fluid replacement ..... 5-22

Clutch adjustment ..... 5-22

Drive chain slack check ..... 5-23

Drive chain slack adjustment ..... 5-24

Drive chain lubrication ..... 5-25

Cable inspection and lubrication ..... 5-26

Throttle cable and grip lubrication ..... 5-26

Brake and shift pedals ..... 5-26

Brake and clutch levers ..... 5-26

Sidestand ..... 5-27

Rear suspension ..... 5-27

Front fork inspection ..... 5-28

Rear shock absorber ..... 5-29

Rear shock absorber adjustment ..... 5-29

Steering inspection ..... 5-31

Wheel bearings ..... 5-31

Battery ..... 5-32

Replenishing the battery fluid ..... 5-33

Fuse replacement ..... 5-35

Front wheel removal ..... 5-36

Front wheel installation ..... 5-36

Rear wheel removal ..... 5-37

Rear wheel installation ..... 5-38

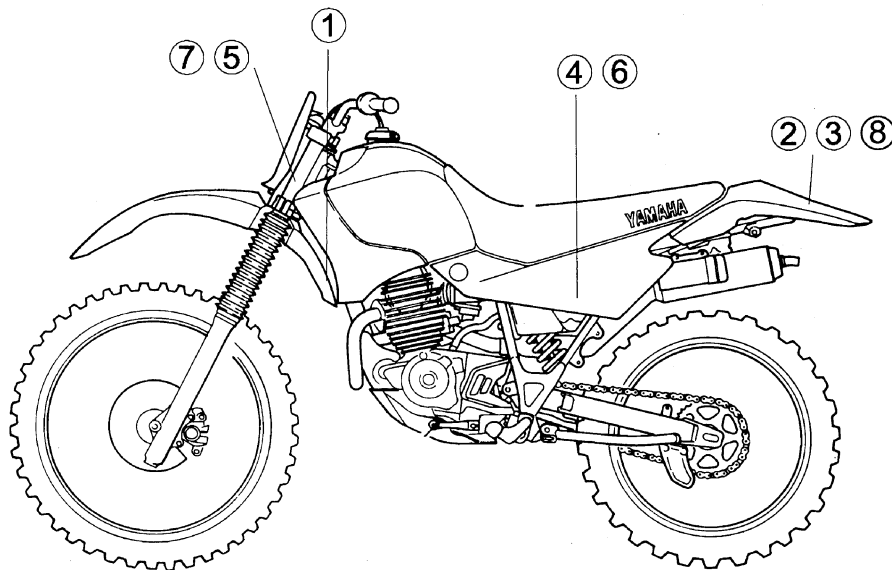
Troubleshooting ..... 5-39

Troubleshooting chart ..... 5-40

<b>CLEANING AND STORAGE .....</b>	<b>6-1</b>
A. CLEANING .....	6-1
B. STORAGE .....	6-2
<b>SPECIFICATIONS .....</b>	<b>7-1</b>
<b>MOTORCYCLE NOISE REGULATION .....</b>	<b>8-1</b>
Maintenance record .....	8-2
<b>OFF-ROAD MACHINE LIMITED WARRANTY .....</b>	<b>9-1</b>
<b>WARRANTY QUESTIONS AND ANSWERS .....</b>	<b>9-2</b>
<b>CUSTOMER SERVICE .....</b>	<b>9-2</b>
<b>CHANGE OF ADDRESS .....</b>	<b>9-2</b>
<b>YAMAHA EXTENDED SERVICE .....</b>	<b>9-3</b>

## LOCATION OF THE IMPORTANT LABELS

Please read the following labels carefully before operating this machine.



①

## TIRE INFORMATION

Cold tire normal pressure should be set as follows.

**FRONT:** 100kPa, (1.00kgf/cm<sup>2</sup>), 15psi  
**REAR:** 100kPa, (1.00kgf/cm<sup>2</sup>), 15psi

YAMAHA

3RV-21668-00

②



## WARNING

Riding as a passenger can cause the vehicle to go out of control.

Loss of control can cause a collision or rollover, which can result in severe injury or death.

**NEVER** ride as a passenger.

YAMAHA

3XJ-2151H-00

③



## WARNING

- BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.
- NEVER CARRY A PASSENGER. You increase your risk of losing control if you carry a passenger.
- NEVER OPERATE THIS VEHICLE ON PUBLIC ROADS. You can collide with another vehicle if you operate this vehicle on a public road.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.
- EXPERIENCED RIDER ONLY.

YAMAHA

4ES-2118K-00

④

## 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.

YAMAHA

3JL-28177-00

⑤

○ 5FGG-010

● A

5FG-F118E-G0

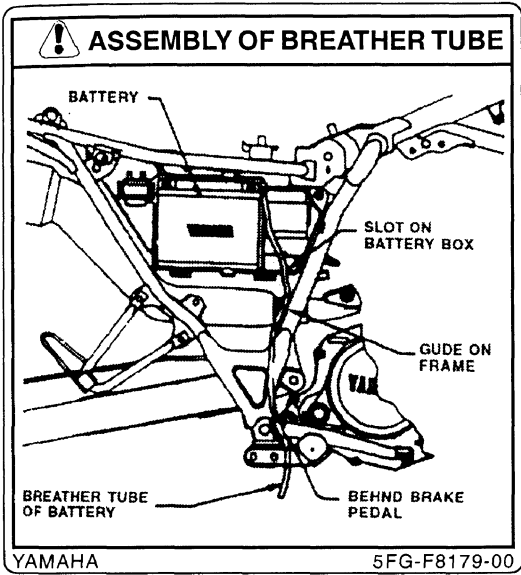
○ 5FGH-010

● A

5FG-F118E-H0



6



7

MOTORCYCLE NOISE EMISSION CONTROL INFORMATION - YAMAHA MOTOR DO BRASIL LTDA YAMAHA  
 THIS MOTORCYCLE MEETS 1986 AND LATER EPA NOISE EMISSION REQUIREMENTS OF THE FEDERAL TEST PROCEDURE.  
 MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARD ARE PROHIBITED BY  
 FEDERAL LAW. SEE OWNER'S MANUAL LIMIT/CLOSING: 82dB(A) / 7293r/min MODEL CODE: YAM5FG0223 5FG-2179X-00

**ONLY FOR CALIFORNIA**

8

VEHICLE EMISSION CONTROL INFORMATION - YAMAHA MOTOR DO BRASIL LTDA.

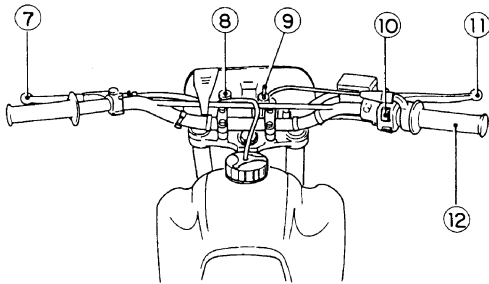
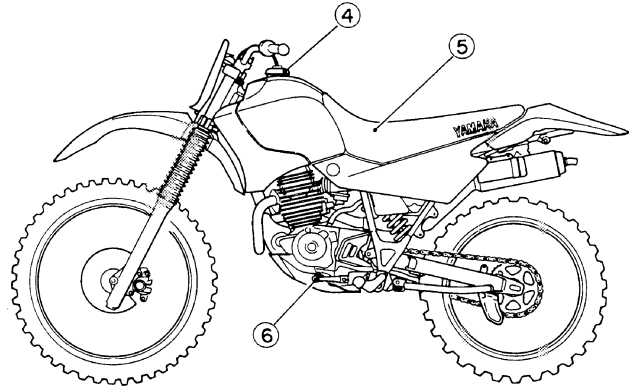
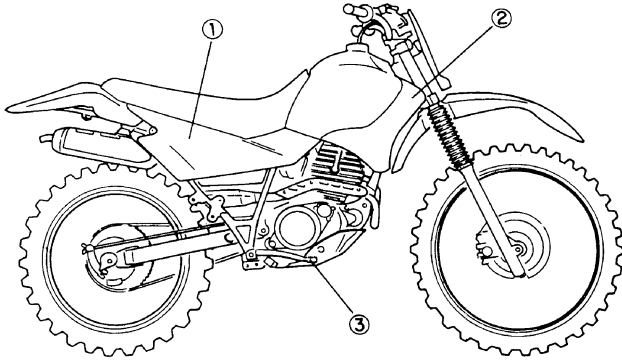
EM ENGINE FAMILY: 4YBXX.223GCA

TUNE - UP SPECIFICATIONS AND ADJUSTMENTS (REFER TO YOUR OWNER'S MANUAL) YAMAHA

DISPLACEMENT: 223 cm <sup>3</sup>	VALVE LASH (mm) IN: 0.07	EX: 0.17
IGNITION TIMING & IDLE MIXTURE NO OTHER ADJUSTMENTS NEEDED		
IDLE SPEED 1400 r/min IN NEUTRAL	ADJUST THROTTLE STOP SCREW AT NORMAL OPERATING TEMPERATURE.	
SPARKPLUG&GAP	NGK DR8EA	0,6 - 0,7 mm
FUEL: ALL GASOLINE 91 ROM. MIN	ENGINE OIL SAE 20W/40 OR 10W/30	TYPE SE

THIS VEHICLE CONFORMS TO CALIFORNIA REGULATIONS APPLICABLE TO 1997 & LATER NEW OFF-ROAD MOTORCYCLES AND ALL-TERRAIN VEHICLES. 5FG - 2179T-50

# DESCRIPTION



- 01. Side cover
- 02. Air scoop
- 03. Rear brake pedal
- 04. Fuel tank cap
- 05. Seat
- 06. Shift pedal
- 07. Clutch lever
- 08. Starter knob
- 09. Main switch
- 10. Handlebar switch
- 11. Front brake lever
- 12. Throttle grip

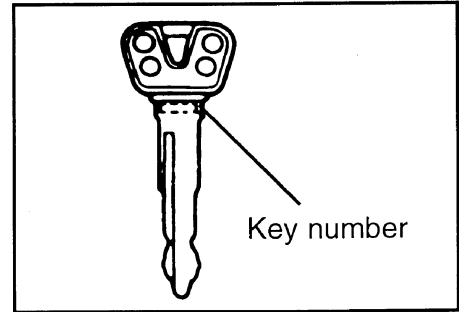
## IDENTIFICATION NUMBERS RECORD

## 1. KEY IDENTIFICATION NUMBER:

## 2. FRAME SERIAL NUMBER:

## 3. ENGINE SERIAL 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.



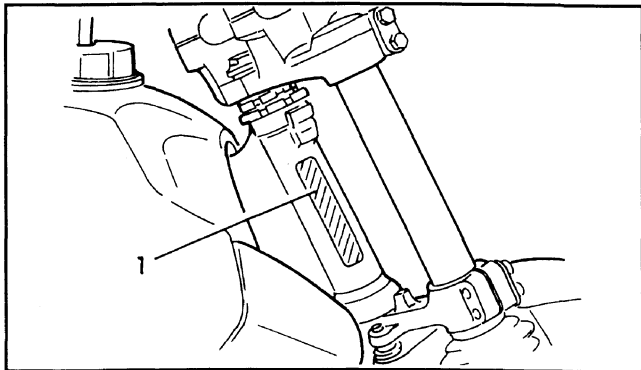
Record the frame serial number and engine serial number in the spaces provided for assistance when ordering spare parts from a Yamaha dealer for reference in case the vehicle is stolen.

## MACHINE IDENTIFICATION

EAU01043

### Vehicle identification number

The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.



1. Vehicle identification number

VEHICLE IDENTIFICATION NUMBER:

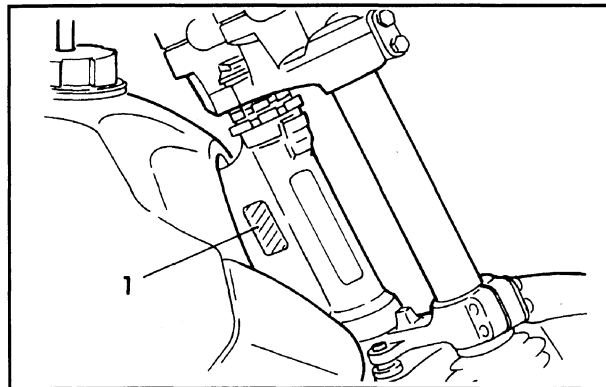
Note: \_\_\_\_\_

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your state.

EAU01049

### Model label

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



1. Model label

MODEL LABEL INFORMATION:

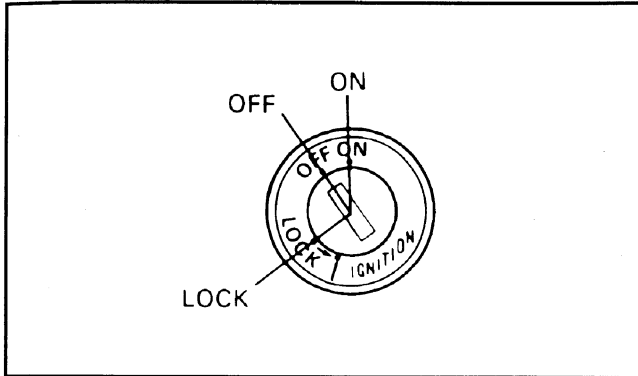
EAU00027

## CONTROL FUNCTIONS

EAU00028

### Main switch

The main switch controls the ignition and the electrical system. It's operation is described below.



EAU00030

### ON:

Electrical circuits are switched on. Engine can be started. The key cannot be removed.

EAU00038

### OFF:

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

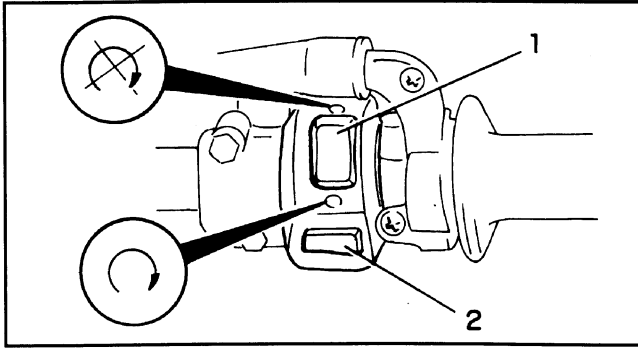
EAU00043

### LOCK:

The steering is locked and all electrical circuits are switched off. The key can be removed. Refer to page (3-8) "Steering lock" for instructions.

### NOTE:

Always turn the main switch to "OFF" or "LOCK" and remove the key when the motorcycle is unattended.



1. "ENGINE STOP" switch, shuts the engine off

2. Starter switch

EAU00138

### "ENGINE STOP" switch

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 "↻" to start the engine, and turn the switch to "⊗" to stop the engine.

EAU00141

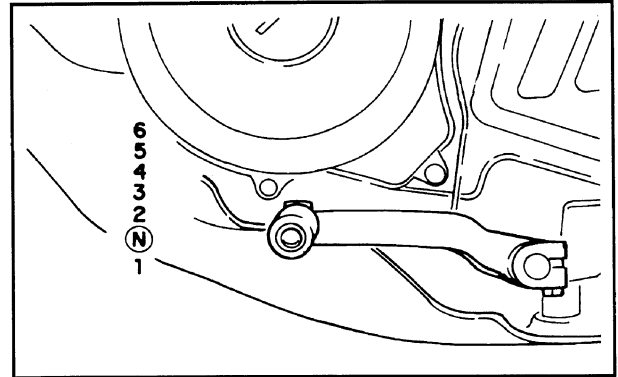
### Starter switch

The starter motor cranks the engine when pushing the starter switch.

EC000005

### CAUTION:

See starting instructions prior to starting the engine.



N - NEUTRAL

1. Shift pedal

EAU00152

### Clutch lever

The clutch lever is located on the left handlebar, and the starting circuit cut off switch is incorporated in the clutch lever holder. 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.

EAU00157

### **Shift pedal**

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

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

EAU00158

### **Front brake lever**

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

EAU00162

### **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.

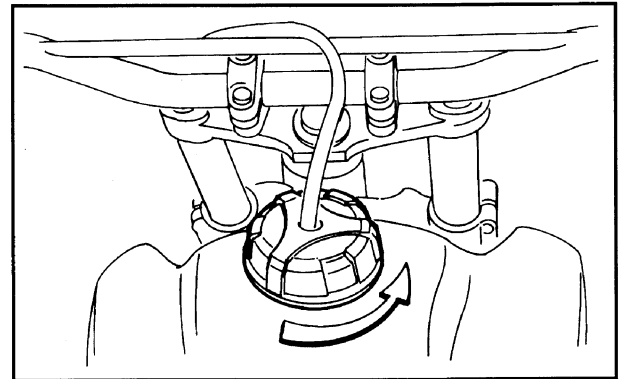
### **Fuel tank cap**

**TO OPEN:**

Rotate the cap counterclockwise to remove it.

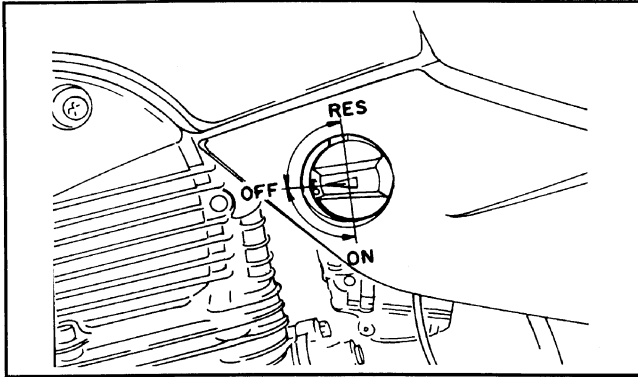
**TO CLOSE:**

Reverse the procedure above.



## Fuel cock

The fuel cock supplies fuel from the tank to the carburetor while filtering it also. The fuel cock has three positions:



**OFF:** With the lever in this position, fuel will not flow. **ALWAYS RETURN THE LEVER TO THIS POSITION WHEN THE ENGINE IS NOT RUNNING.**

**ON:** With the lever in this position, fuel will flow to the carburetor. Normal riding is done with the lever in this position.

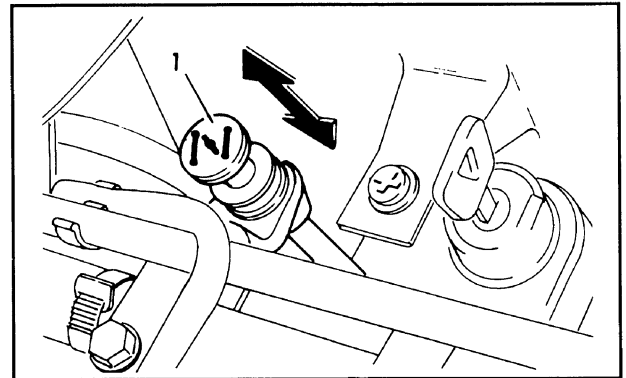
**RES:** This indicates reserve. If you run out of fuel while riding, move the lever to this position. **FILL THE TANK AT THE FIRST OPPORTUNITY. BE SURE TO SET THE LEVER TO "ON" AFTER REFUELLING.**

EAU00210

## Starter knob (choke)

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

Pull the starter knob up to open the circuit for starting. When the engine has warmed up, push the knob down to close the circuit.



1. Starter knob



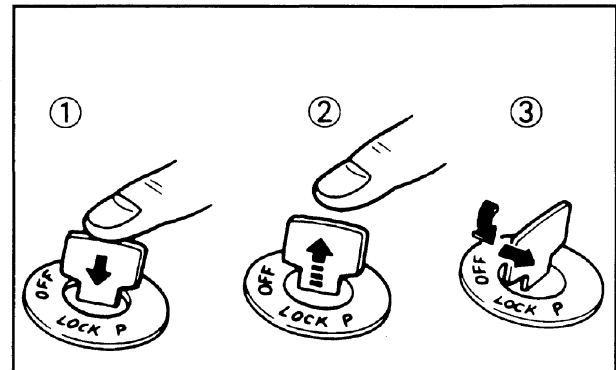
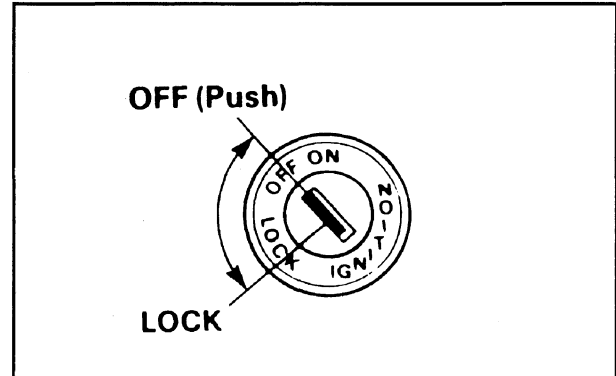
## Steering lock

The steering is locked when the main switch is turned to "LOCK". To lock the steering, turn the handlebars all the way to the left. With the key at "OFF" position, push it into the main switch and release it, turn it counterclockwise to "LOCK", and remove the key. To release the lock, turn the key to "OFF".

EW000016

### **WARNING:**

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



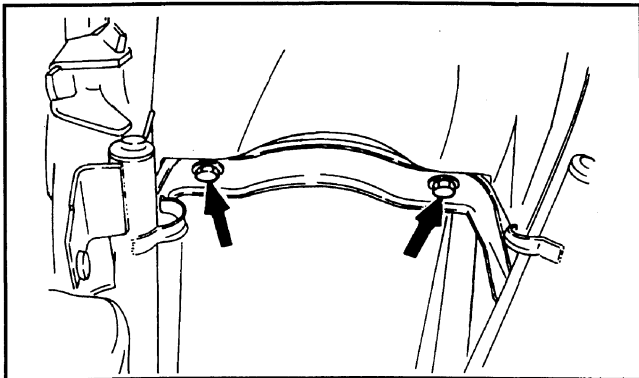
1. Push

2. Release

3. Turn

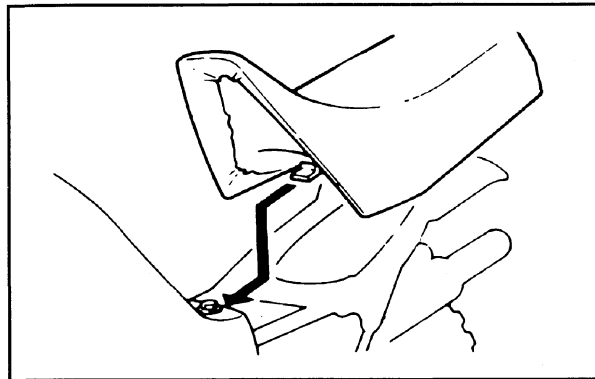
## Seat removal

To remove the seat, remove the bolts.



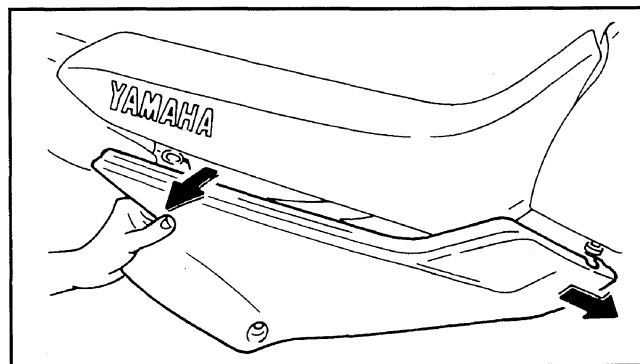
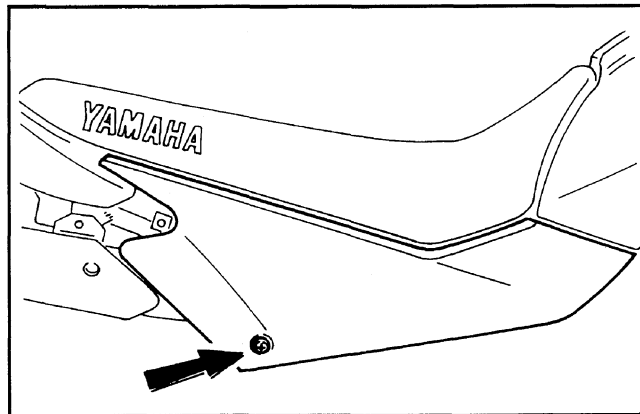
To reinstall the seat, insert the lobe on the front of the seat into the receptacle on the frame, then tighten the bolts.

**NOTE:** \_\_\_\_\_  
Make sure the seat is securely fitted.  
\_\_\_\_\_



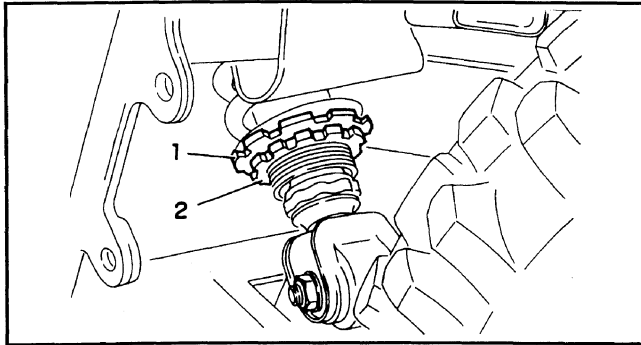
## Side cover removal

1. Remove the screw.
2. Pull the rear portion of the side cover, releasing it from the frame.
3. Remove the side cover pulling it forward.
4. To reinstall it, reverse the removal procedures.



## Rear shock absorber

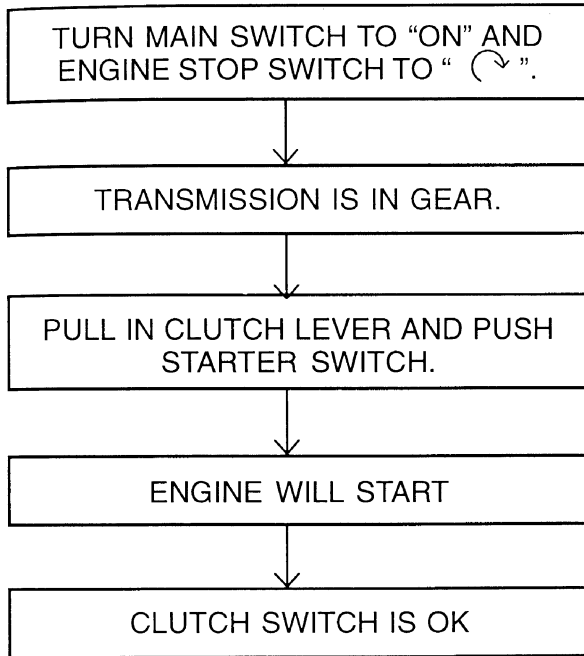
The spring preload can be adjusted to suit the motorcycle's load (ex: optional accessories, etc.) and riding conditions. Refer to page 5-29 for proper adjustment procedures.



1. Spring preload adjuster
2. Lock nut

## Clutch switch operation check

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



## **⚠ WARNING:**

**If improper operation is noted, consult a Yamaha dealer or other qualified mechanic immediately.**

## PRE-OPERATION CHECKS

Before using this motorcycle, check the following points:

ITEM	ROUTINE	PAGE
Front brake	Check operation, free play, fluid level and fluid leakage. Top-up with DOT #4 (or DOT #3) brake fluid if necessary.	3-3 ~ 3-4
Rear brake	Check operation, condition and free play. Adjust if necessary.	5-16 ~ 5-22
Clutch	Check operation, condition and free play. Adjust if necessary.	3-4, 5-22 ~ 5-23
Throttle grip/housing	Check for smooth operation. Lubricate / Adjust if necessary.	3-4, 5-14, 5-26
Engine oil	Check oil level / add oil as necessary.	3-4, 5-6 ~ 5-10
Drive chain	Check chain slack and condition. Adjust if necessary.	3-5, 5-23 ~ 5-25
Wheels/Tires	Check tire pressure, wear, damage and spoke tightness.	3-5 ~ 3-7
Brake and clutch lever pivots	Check for smooth operation. Lubricate if necessary.	5-26

ITEM	ROUTINE	PAGE
Sidestand Pivot	Check for smooth operation. Lubricate if necessary.	5-27
Fittings/Fasteners	Check all chassi fittings and fasteners. Tighten/Adjust, if necessary.	3-8, 5-5
Fuel tank	Check fuel level/top up as required.	3-8 ~ 3-9
Battery	Check electrolyte level. Replenish with "distilled water" if necessary.	5-32 ~ 5-34

**NOTE:**

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. If any maintenance service or adjustment is needed, consult the chart above to refer to the pages in which the service or adjustment is described.

**⚠ WARNING:**

1. The engine, exhaust pipe, and muffler will be very hot after the engine has been run. Be careful not to touch them or to allow any clothing item to contact them during inspection or repair.
2. If any item in the PRE-OPERATION CHECK is not working properly, have it inspected and repaired before operating the motorcycle.

## Brakes

(See page 5-16 for details)

1. Brake lever and brake pedal  
Check for correct free play in the front brake lever and rear brake pedal and adjust if necessary. Make sure the brakes are working properly by checking at low speed shortly after starting out.

EW000049

### **WARNING:** \_\_\_\_\_

**A soft, spongy feeling in the brake lever indicates a failure in the brake system. Do not operate the motorcycle until the failure in the brake system is corrected. Ask a Yamaha dealer or other qualified mechanic for immediate repairs. A soft, spongy feeling could indicate a hazardous condition in the brake system.**

---

2. Brake fluid  
Check the brake fluid level. Add fluid if necessary.

RECOMMENDED BRAKE FLUID: DOT #4

**NOTE:** \_\_\_\_\_  
If DOT #4 is not available, #3 can be used.

---

3. Check the disc pads.  
Refer to page 5-19
4. Check the brake shoes.  
Refer to page 5-19

**NOTE:** \_\_\_\_\_  
When a brake service is necessary, consult a Yamaha dealer or other qualified mechanic.

---



EAU00358

## Brake fluid leakage

Apply the brake for several seconds. Check to see if any brake fluid leaks out from the pipe joints or the master cylinder.

EC000031

### **CAUTION:**

Brake fluid may deteriorate painted surfaces or plastic parts. Never spill any fluid. If spilled, clean it up immediately.

EW000050

### **WARNING:**

**If brake fluid leakage is found, ask a Yamaha dealer or other qualified mechanic for immediate repairs. Such leakage could indicate a hazardous condition.**

EAU00361

## Clutch

( See page 5-22 for details)

Check the free play in the clutch lever, and make sure the lever operates properly. If the free play is incorrect, adjust it.

EAU00363

## Throttle grip

(See page 5-26 for details)

Turn the throttle grip to see if it operates properly, and check the free play.

Make sure the grip returns by spring force when released. Ask a Yamaha dealer or other qualified mechanic to make any necessary adjustments.

EAU00342

## Engine oil

(See page 5-6 for details)

Make sure the engine oil is at the specified level. Add oil as necessary.

### OIL QUANTITY:

Total amount:

1.3 L (1.1 Imp qt, 1.4 US qt)

Periodic oil change:

1.0 L (0.9 Imp qt, 1.1 US qt)

With oil filter replacement:

1.1 L (1.0 Imp qt, 1.2 US qt)

### Chain

(See page 5-23 for details)

Check the general conditions of the chain and the chain slack before every ride. Lubricate and adjust the chain as necessary.

### 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 machine.

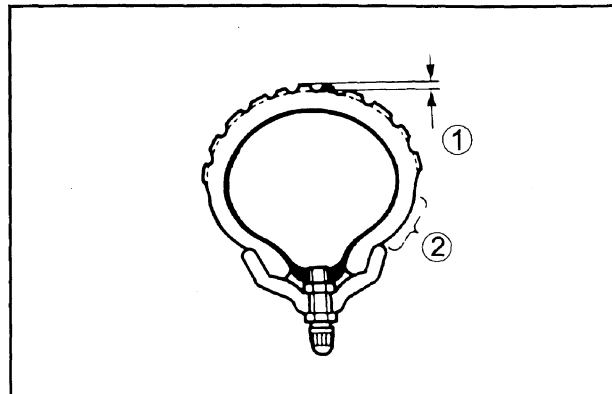
### WARNING:

**Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature. .**

	FRONT	REAR
OFF-ROAD RIDING	100kpa 1,0 kgf/cm <sup>2</sup> , 15 psi	100kpa 1,0 kgf/cm <sup>2</sup> , 15 psi

#### 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 or other qualified mechanic and have the tire replaced.



- 1. Tread depth
- 2. Side wall

EW000093

FRONT	Size	Type
	80/100-21	MT 21

REAR	Size	Type
	100/100-18	MT 21

Minimum tire tread depth (from and rear)	4.5 mm (0.181 in)
--	-------------------

 **WARNING:** \_\_\_\_\_

- 1. It is dangerous to ride with a worn-out tire. When the tire tread begin to show signs of wear, replace the tire immediately. Brakes, tires and related wheel parts should 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 or other qualified mechanic. Do not attempt even small repairs to the wheel. If a wheel is deformed or cracked, it must be replaced.
2. 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.
3. After installing a tire, ride conservatively to allow the tire to seat itself on the rim properly. Failure to allow proper seating may cause tire failure, resulting in damage to the motorcycle and injury to the rider.

## ACCESSORIES OR REPLACEMENT PARTS

### **WARNING:**

---

**This motorcycle is not designed to pull a trailer or to be attached to a sidecar. The Accessories or replacement parts you choose for your motorcycle should be designed specifically for it, and they must be securely mounted to maintain inherent stability of the 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-approved parts or accessories may cause loss of handling stability and riding safety. Since Yamaha cannot control the quality of parts and 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.**

---

EAU00367

### Fitting/Fasteners

Always check the tightness of chassis fittings and fasteners before a ride. Use the chart on page 5-5 to find the correct torque.

EAU00369

### Switches

Check the operation of the starter switch, main switch, "Engine Stop" switch.

EAU01183

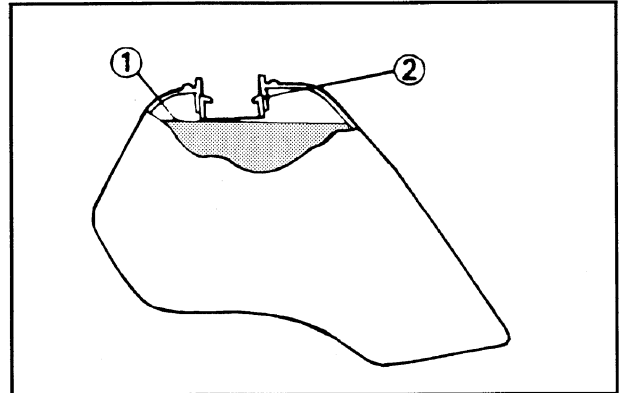
### Fuel

Make sure there is sufficient fuel in the tank.

EW000130

### **⚠ WARNING:**

**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 as shown in the illustration or it may overflow when the fuel heats up later and expands.**



1. Fuel level

2. Filler tube

EAU00185

**CAUTION:**

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:

2.6 US gal (2.2 Imp gal, 10.0 L)

Reserve:

0.5 Us gal (0.4 Imp gal, 1.8 L)

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.

## OPERATION AND IMPORTANT RIDING POINTS

### **WARNING:**

---

Before riding this motorcycle, become thoroughly familiar with all operating controls and their functions. Consult a Yamaha dealer or other qualified mechanic regarding any control or function that you do not thoroughly understand.

1. This model is designed for off-road use only. In most instances, it is illegal to ride this model (either day or night) on any public street or highway.
  2. 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 machine in an area with adequate ventilation.
- 

### **WARNING:**

---

1. 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 proper ventilation.
- EW000052
2. 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.
-

## Starting the engine

**NOTE:** \_\_\_\_\_

This motorcycle is equipped with a starting and an ignition circuit cut-off switch.

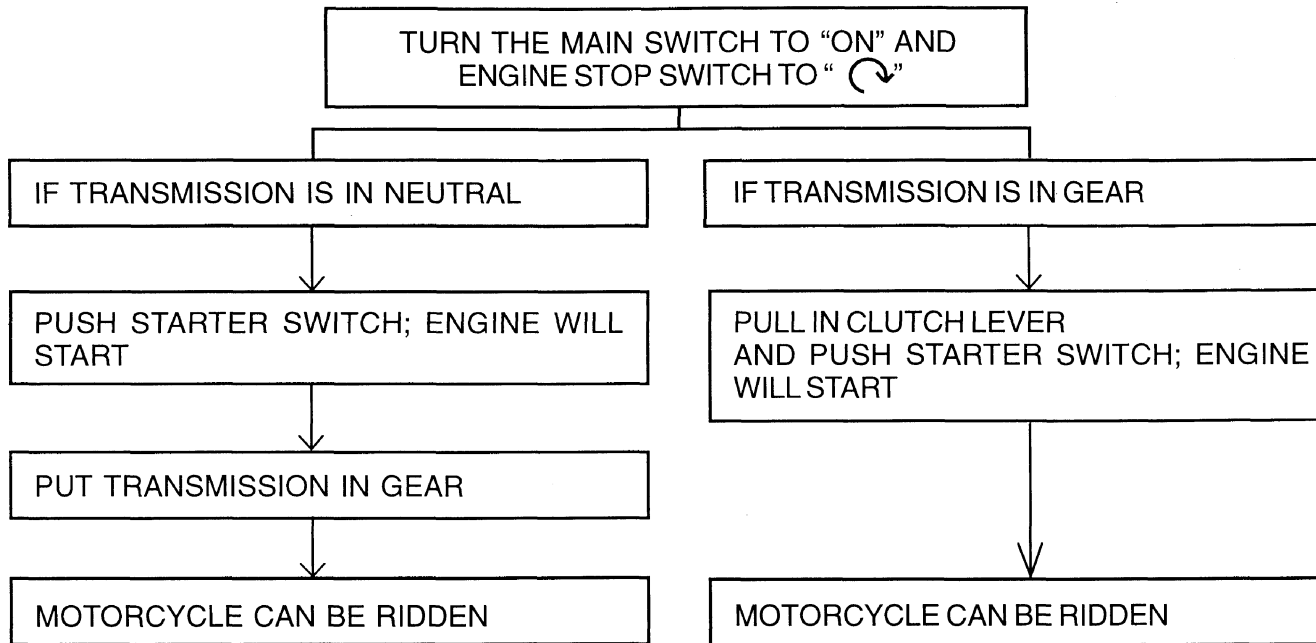
1. The engine can be started only under the following conditions:
    - a. The transmission is in neutral.
    - b. The transmission is in gear and the clutch is disengaged.
  2. The motorcycle must not be ridden when the sidestand is down.
-



**⚠ WARNING:** \_\_\_\_\_

**Before going through the following steps, check the function of the clutch switch (See page 2-12)**

---



## Starting a cold engine

1. Turn the fuel cock to "ON".
2. Turn the main switch to "ON" and the engine stop switch to "↻"(RUN).
3. Shift transmission into neutral.
4. Fully open the starter (CHOKE) and completely close the throttle grip.
5. Start the engine by pushing the starter switch.

**NOTE:** \_\_\_\_\_

If the engine fails to start, release the starter switch, wait a few seconds, then try again. Each attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt.

---

6. After starting the engine, turn back the starter to an intermediate position.

**NOTE:** \_\_\_\_\_

To obtain maximum engine life and service, do not ever thoroughly accelerate it while the engine is cold.

---

7. After warming up the engine, turn back the starter (CHOKE) completely.

**NOTE:** \_\_\_\_\_

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

---

EAU01258

## Starting a warm engine

The starter (CHOKE) is not required when the engine is warm.

EC000046

### **CAUTION:** \_\_\_\_\_

**See the “Break-in section” prior to operating the motorcycle for the first time.**

---

EAU00423

## Shifting

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 shift pedal is shown in the illustration (page 2-5). To shift into NEUTRAL, depress the shift pedal repeatedly until it reaches the end of its travel (you will feel a stop when you are in first gear), then raise the pedal slightly.

EC000048

### **CAUTION:** \_\_\_\_\_

- 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 the engine is running. Inadequate lubrication may damage the transmission.**
  - 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.**
-

## Engine Break-in

There is never a more important period in the life of your motorcycle than the period between zero and 20 hours. For this reason we ask that you carefully read the following material. Because the engine is brand new, you must not put an excessive load on it for the first several hours of running. During the first 20 hours the various parts in the engine wear and polish themselves to the correct operating clearances.

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

Each full throttle acceleration sequence should be followed with a substantial rest period for the engine by cruising at lower rpm so the engine can rid itself of the temporary build up of heat.

1. 0 ~ 10 hours:  
Avoid continuous operation above half throttle. Allow a cooling off period of 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. 10 ~ 20 hours:  
Avoid prolonged operation above 3/4 throttle. Allow the machine to rev freely through the gears, but do not use full throttle at any time.
3. After break-in:  
Avoid prolonged full throttle operation. Vary speeds occasionally.

EC000049

**CAUTION:**

---

**If any engine trouble should occur during the break-in period, consult a Yamaha dealer or other qualified mechanic immediately.**

---

EAU00457

**Parking**

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

EW000058

** WARNING:**

---

**The muffler and exhaust pipe are 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 fall over.**

---

EAU00462

## PERIODIC MAINTENANCE AND MINOR REPAIRS

EAU00465

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 maintenance and lubrication schedule chart should be considered strictly as a guide to general maintenance and lubrication intervals. YOU MUST TAKE INTO CONSIDERATION THAT WEATHER, TERRAIN, GEOGRAPHICAL LOCATIONS, AND A VARIETY OF INDIVIDUAL USES ALL TEND TO DEMAND THAT EACH OWNER ALTER THIS TIME SCHEDULE TO SHORTER INTERVALS TO MATCH THE ENVIRONMENT.

The most important points of motorcycle inspection, adjustment, and lubrication are explained in the following pages.

EW000060

### **WARNING:**

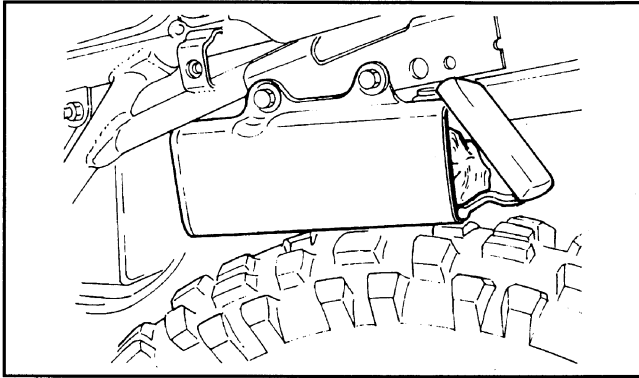
---

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

---

## Tool kit

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.



1. Tool kit

## NOTE: \_\_\_\_\_

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

---

EW000062

## **⚠ WARNING: \_\_\_\_\_**

**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.**

---

## PERIODIC MAINTENANCE/LUBRICATION

ITEM	REMARKS	BREAK-IN 1 month	EVERY	
			6 months	12 months
Valve(s)*	Check clearance. Adjust if necessary	0	0	0
Spark plug	Check condition. Clean or replace if necessary.	0	0	0
Air filter	Clean. Replace if necessary.	every ride		
Carburetor*	Check idle speed / starter operation. Adjust if necessary.	0	0	0
Fuel line	Check fuel hose for cracks or damage. Replace if necessary.		0	0
Engine oil	Replace (Warm engine before draining).	0	0	0
Engine oil filter / Oil strainer*	Clean.	0		0
Brakes*	Check operation/fluid leakage/See NOTE 1 (Page 5-4) Correct if necessary..		0	0
Clutch*	Check operation. Adjust if necessary.		0	0
Rear arm pivot*	Check rear arm assembly for looseness. Tighten if necessary. Moderately repack.***	0	0	0
Wheels*	Check balance, damage, runout and spoke tightness. Replace if necessary.		0	0
Wheel bearings*	Check bearing assemblies for looseness/damage. Replace if damaged.		0	0



ITEM	REMARKS	BREAK-IN 1 month	EVERY	
			6 months	12 months
Steering bearings*	Check bearing assemblies for looseness. Correct if necessary. Moderately repack every 24 months**	Check		Check
Front forks*	Check operation / oil leakage. Repair if necessary.		0	0
Rear shock absorber*	Check operation / oil leakage. Repair if necessary.		0	0
Drive chain	Check chain slack / alignment. Adjust if necessary. Clean and lube.	Every ride (more often in wet or dusty areas)		
Fittings / Fasteners*	Check all chassis fitting and fasteners. Correct if necessary.	0	0	0
Nuts and bolts	Check all nuts and bolts. Retighten if necessary.	0	0	0
Sidestand*	Check operation. Repair if necessary.	0	0	0

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

\*\* Medium weight wheel bearing grease.

\*\*\* Molybdenum disulfide grease.

EAU01450

**NOTE:**

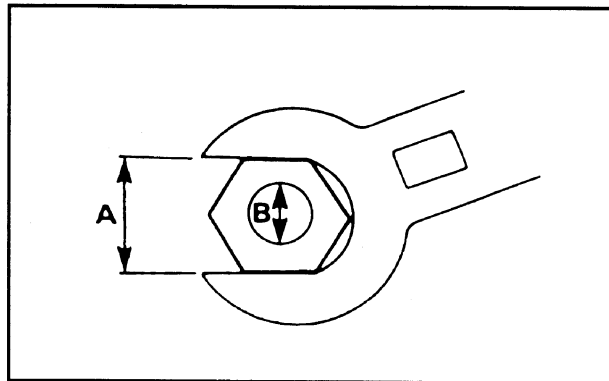
**Brake fluid replacement:**

1. When disassembling the master cylinder or caliper cylinder, replace 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.

## Torque specifications

Use a torque wrench to tighten these items. It is recommended that these items be checked occasionally, specially before a long trip. Always check the tightness of these items whenever they are loosened for any reason.

A (Nut)	B (Bolt)	General torque specifications		
		N.m	Kg.m	lb.ft
10 mm	6mm	6	0.6	4.3
12 mm	8 mm	15	1.5	11
14 mm	10 mm	30	3.0	22
17 mm	12 mm	55	5.5	40
19 mm	14 mm	85	8.5	61
22 mm	16 mm	130	13.0	94



Item	Torque		
	N.m	Kg.m	lb.ft
Spark plug	18	1.8	13
Engine oil drain plug	43	4.3	31
Oil filter cover screw	7	0.7	5.1
Oil check bolt	7	0.7	5.1
Oil filter drain bolt	10	1.0	7.2
Front wheel axle nut	85	8.5	62
Rear wheel axle nut	85	8.5	62

## Engine oil

### 1. Oil level measurement

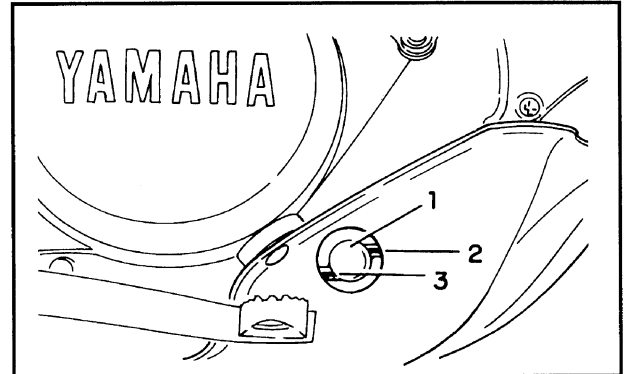
- a. Place the motorcycle on a level place and hold it in an upright position. Warm up the engine for several minutes.

**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.

---

- b. With the engine stopped, check the oil level through the level window located at the lower part of the right side crankcase cover.



1. Level window
2. Maximum mark
3. Minimum mark

**NOTE:** \_\_\_\_\_

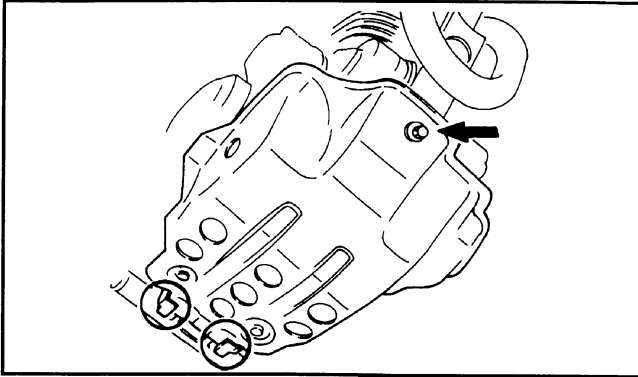
Wait a few minutes until the oil level settles before checking.

---

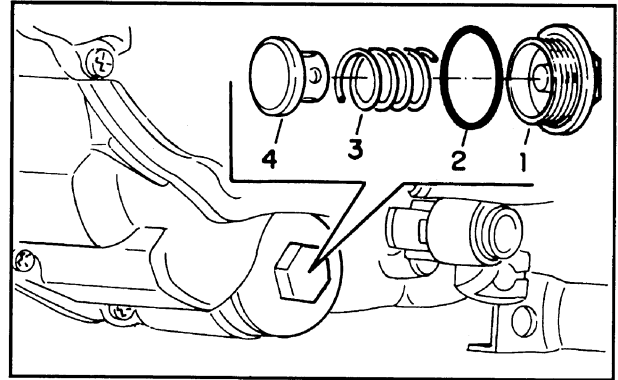
- c. The oil level should be between the maximum and minimum marks. If the level is low, add oil to raise it to the indicated level.

## 2. Engine oil and filter replacement

a. Remove the engine guard.



- b. Warm up the engine for a few minutes.
- c. Stop the engine. Place an oil pan under the engine and remove the oil filler cap.
- d. Remove the drain plug.



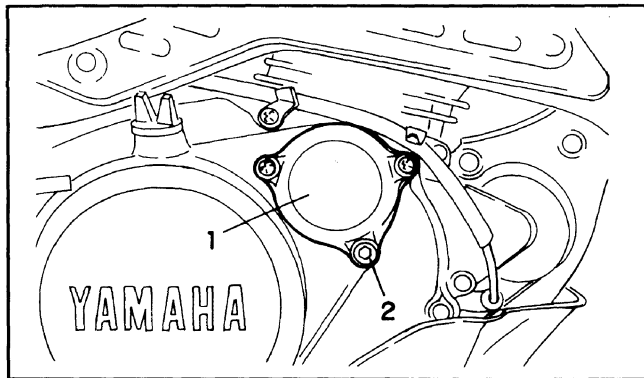
- 1. Drain plug
- 2. O-ring
- 3. Compression spring
- 4. Oil strainer

EC000070

**CAUTION:**

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

- e. Remove the oil filter cover screws and the oil filter cover.

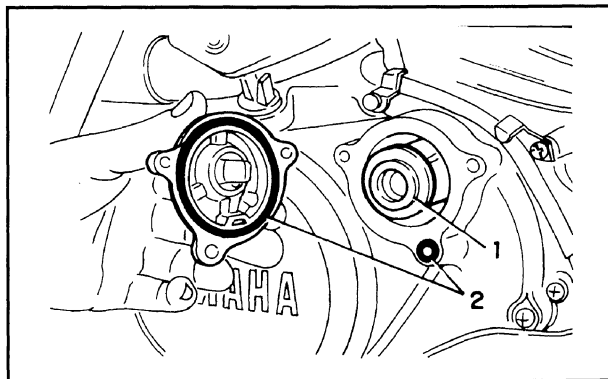


1. Oil filter cover  
2. Oil filter drain bolt

**NOTE:** \_\_\_\_\_

The oil filter cover is secured by two screws and a drain bolt. Remove the drain bolt to drain the filter cavity.

- f. Clean the filter element and strainer with solvent. Replace if necessary.  
g. Check the O-rings. If damaged, replace them.



1. Oil filter  
2. O-ring (x2)

- h. Install the drain plug and oil filter cover, and filter cover screws and the drain bolt. Tighten the oil filter cover screws to the specified torque.

**NOTE:** \_\_\_\_\_

Make sure the O-ring is seated properly.

EC000071

**CAUTION:** \_\_\_\_\_

Before reinstalling the old drain plug, do not forget to install the O-ring, compression spring, and oil strainer in position.

Tightening torque:

Drain plug:

43 N.m (4.3 kgm, 31 lbft)

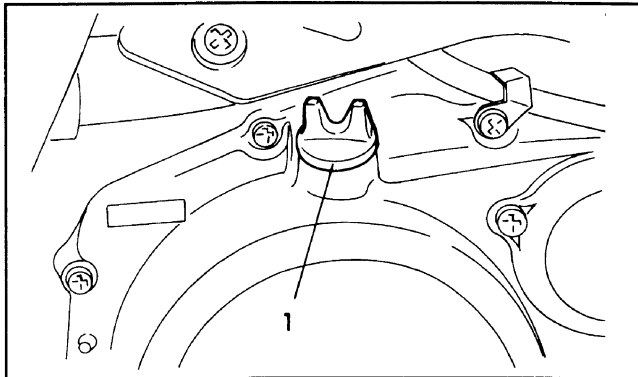
Filter cover screw:

7 N.m (0.7 Kgm, 5.1 lbft)

Drain bolt (filter cover):

10 N.m (1.0 Kgm, 7.2 lbft)

- i. Fill engine with oil. Install the oil filter cap and tighten.



Recommended oil:

30°F 40°F 50°F 60°F

0°C 5°C 10°C 15°C

Yamalube 4 (20W40) or  
SAE 20W40 type SE motor oil  
Yamalube 4 (10W30) or  
SAE 10W30 type motor oil

Oil quantity:

Total amount:

1.3L (1.1 Imp qt, 1.4 US qt)

Periodic oil change:

1.0L (0.9 Imp qt, 1.1 US qt)

With oil filter replacement:

1.1L (1.0 Imp qt, 1.2 US qt)

**NOTE:** \_\_\_\_\_

Recommended engine oil classification; API Service "SE", "SF" type or equivalent (e.g. "SF-SE", "SF-SE-CC", "SF-SE-SD" etc.)

**CAUTION:** \_\_\_\_\_

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

**CAUTION:** \_\_\_\_\_

**Be sure no foreign material enters the crankcase.**

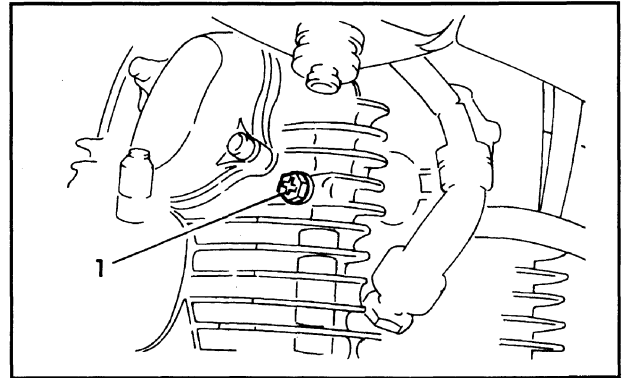
- j. Start the engine and warm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately, and check for the cause.
- k. Stop the engine and check the oil level.

**CAUTION:** \_\_\_\_\_

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

1. Remove the check bolt ① in the cylinder head.
2. 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 or other qualified mechanic for repairs.

**3. After checking, tighten the check bolt to the specified torque.**



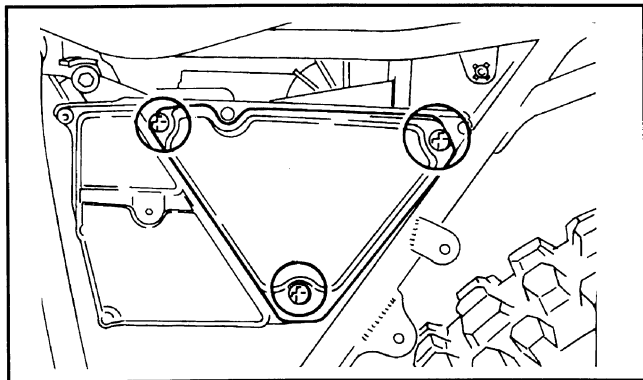
1. Check bolt

Check bolt torque:  
7 N.m (0.7 Kg.m, 5.1 lb.ft)

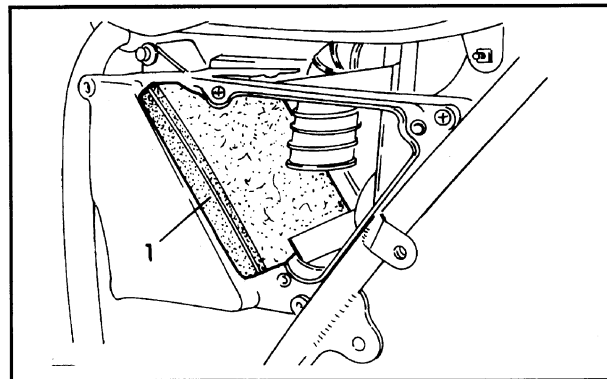
## Air filter

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

1. Remove the left side cover.
2. Remove the air filter case cover by removing the bolts.



3. Pull out the air filter and separate it from the air filter guide. Then clean it with solvent. After cleaning, remove the remaining solvent by squeezing the air filter.



1. Air filter

4. Apply recommended oil to the entire surface of the filter and squeeze out the excess oil. The air filter should be wet but not dripping.

Recommended oil:

“Yamaha foam air filter oil or other quality air filter oil”.



5. Insert the air filter guide into the air filter and install the air filter.

EC000082

**CAUTION:** \_\_\_\_\_

**Make sure the element is properly seated in the air filter case.**

---

EC000082

**CAUTION:** \_\_\_\_\_

**The engine should never be run without the air filter element installed; excessive piston and/or cylinder wear may result.**

---

EAU00627

### **Carburetor adjustment**

The carburetor is a vital part of the engine. Adjusting should be left to a Yamaha dealer who has the professional knowledge, specialized data, and equipment to do so properly. However, the following may be serviced by the owner as part of routine maintenance.

EAU00633

**NOTE:** \_\_\_\_\_

A diagnostic tachometer must be used for this procedure.

---

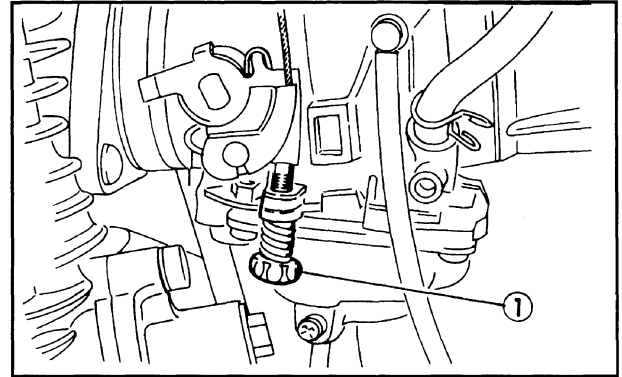
**CAUTION:** \_\_\_\_\_

**The carburetor was set at Yamaha factory after many tests. If the settings are changed, poor engine performance and damage may result.**

---

## Idle speed adjustment

1. Attach the tachometer. Start the engine and warm it up for a few minutes (normally, 1 or 2 minutes) at approximately 1,000 to 2,000 r/min. Occasionally rev the engine to 4,000 to 5,000 r/min. The engine is warm when it quickly responds to the throttle.
2. Set the idle to the specified engine speed by adjusting the throttle stop screw; turn the screw in to increase engine speed and out to decrease engine speed.



1. Throttle stop screw

Standard idle speed:  
1,400 r/min

**NOTE:** \_\_\_\_\_  
If the specified idle speed cannot be obtained by performing the above adjustment, consult a Yamaha dealer.

EAU00635

## Throttle cable adjustment

EAU00634

### NOTE:

**Before checking the throttle cable free play, the engine idling speed should be adjusted.**

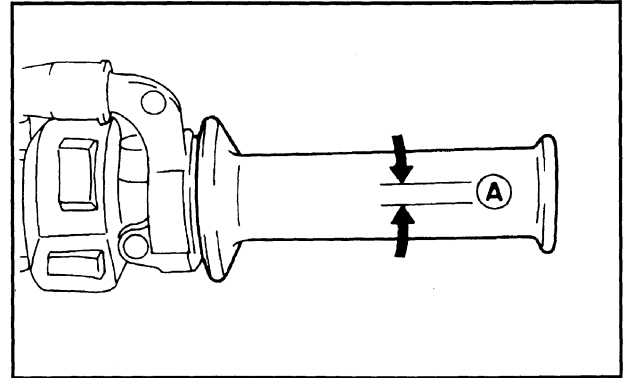
EAU00635

The throttle cable should have an specified free play in the turning direction at the grip flange. If the free play is incorrect, ask a Yamaha dealer to make adjustment.

EAU00634

Free play:

3 ~ 5 mm (0.12 ~ 0.20 in)



a. 3 ~ 5 mm (0.12 ~ 0.20 in)

EAU00637

## Valve clearance adjustment

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

## Spark plug inspection

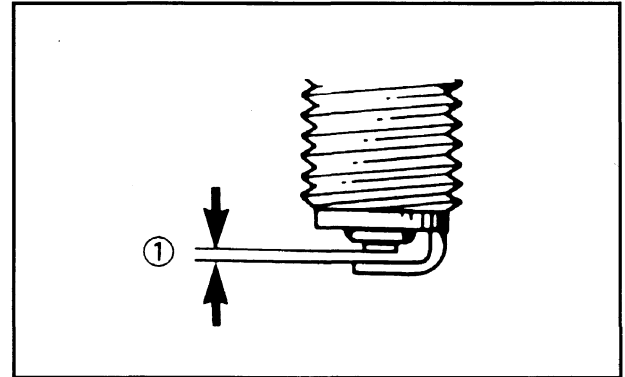
The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

The ideal color on the white porcelain 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.

Standard spark plug:  
DR8EA / DR8ES-L (NGK)

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

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



1. Spark plug gap

When installing the plug, always clean the gasket surface and use a new gasket. Wipe off any grime from the threads, and torque the spark plug properly.

Spark plug torque:  
18 N.m (1.8 Kg.m, 13 lb.ft)

**NOTE:** \_\_\_\_\_

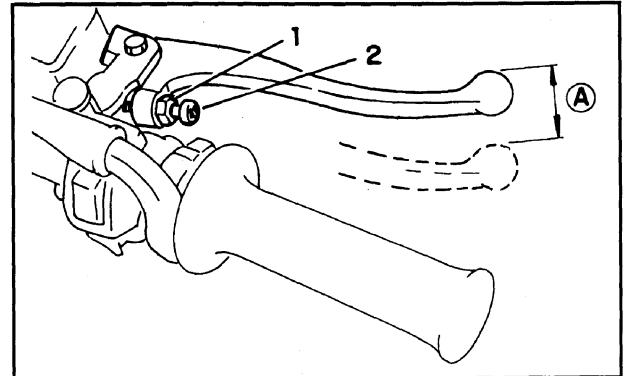
If a torque wrench is not available when you are installing a spark plug, a good estimate of the correct torque is 1/4 to 1/2 turn past finger tight. Have the spark plug torqued to the correct value as soon as possible with a torque wrench.

EAU00696

**Front brake adjustment**

The free play at the end of the front brake lever should be 2 ~ 5 mm (0.08 ~0.20 in).

1. Loosen the lock nut.
2. Turn the adjuster so that the brake lever movement at the lever end is 2 ~ 5 mm (0.08 ~ 0.20 in) before the adjuster contacts the master cylinder piston.
3. After adjusting, tighten the lock nut.



1. Lock nut
  2. Adjuster
- a. Free play: 2 ~5 mm (0.08 ~ 0.20 in)

EW000099



**Check the brake lever free play. Be sure the brake is working properly.**

**⚠ WARNING:**

A soft or sponging 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.

EAU00707

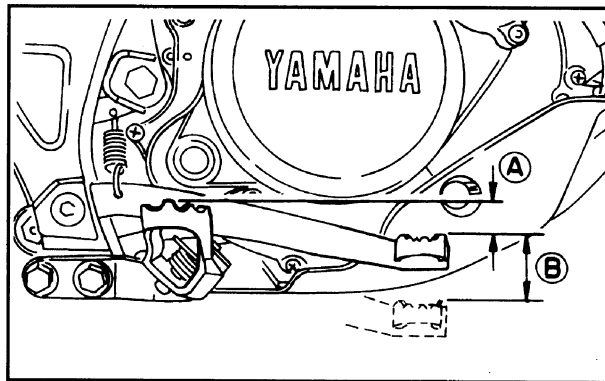
**Rear brake adjustment**

EW000104

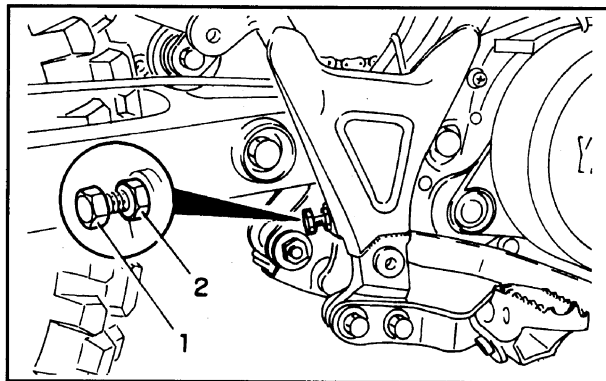
**⚠ WARNING:**

For brake pedal adjustment, be sure to proceed as follows (it is advisable to have a Yamaha dealer make this adjustment.)

1. Pedal height.
  - a. Loosen the lock nut.
  - b. By turning the adjuster clockwise or counterclockwise adjust the brake pedal position so that its top end is approximately 15 mm (0.6 in) below the top of the rubber cover footrest.
  - c. Tighten the lock nut.

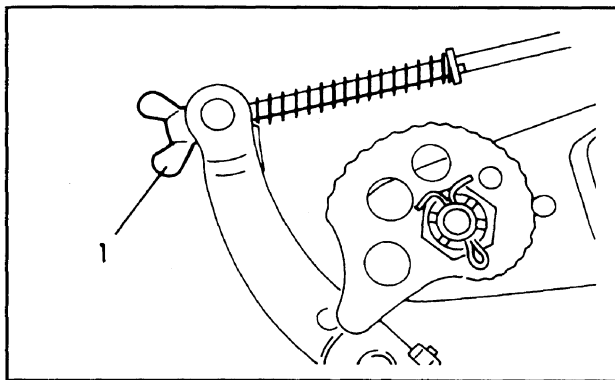


- a. Pedal height: 15 mm (0.6 in)
- b. Free play: 20 ~ 30 mm (0.8 ~ 1.2 in)



1. Adjuster

2. Lock nut



1. Adjuster

EW000105

**⚠ WARNING:**

**After adjusting the pedal height adjust brake pedal free play.**

2. Free play

The rear brake pedal free play should be adjusted to 20 ~ 30 mm (0.8 ~ 1.2 in) at the brake pedal end. Turn the adjuster on the brake rod clockwise to reduce play or counterclockwise to increase play.

EW000106

**⚠ WARNING:**

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

EAU00715

## Checking the front brake pads and rear brake shoes

A wear indicator is provided on each brake. This indicator allows checking of brake pad/shoe wear without disassembling the brake.

EAU00723

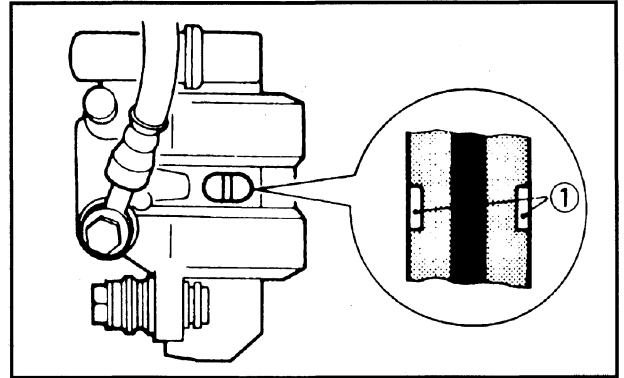
### FRONT BRAKE

Apply the brake and inspect the wear indicator. If the wear indicator is almost in contact with the disc plate, ask a Yamaha dealer to replace the pads.

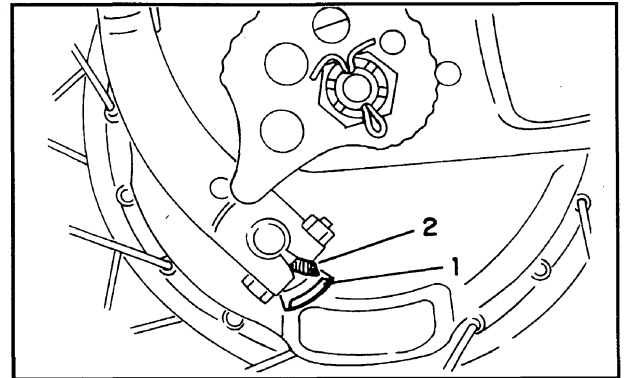
EAU00727

### REAR BRAKE

Apply the brake and inspect the wear indicator. If the indicator reaches the wear limit line, ask a Yamaha dealer to replace the shoes.



1. Wear limit 0.8 mm (0.03 in)



1. Wear limit  
2. Wear indicator



## 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 lower level and replenish when necessary. Observe these precautions:

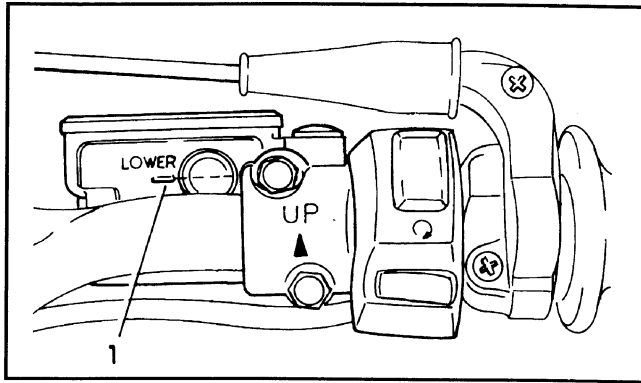
1. When checking the fluid level, make sure the top of the master cylinder is level by turning the handlebars.
2. Use only the designated quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance.

Recommended brake fluid:  
DOT #4

**NOTE:** \_\_\_\_\_

If DOT #4 is not available, #3 can be used.

---



1. Lower level

3. Refill with the same type of brake fluid. Mixing fluids may result in a harmful 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.
5. 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.

## Brake fluid replacement

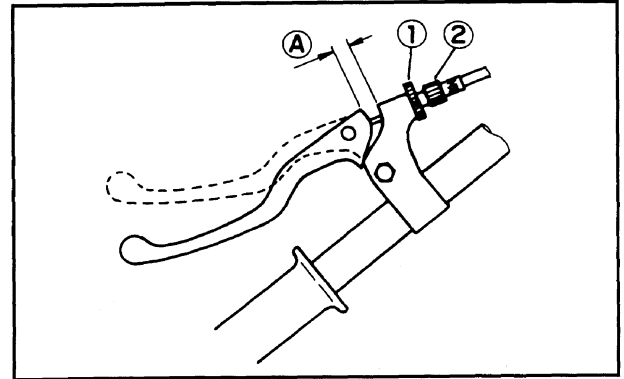
1. Complete fluid replacement should be done only by trained service personnel.
2. Have a Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking.
  - a. Replace all rubber seals every two years.
  - b. Replace all hoses every four years.

## Clutch adjustment

The clutch lever free play should be adjusted to 10 ~ 15 mm (0.4 ~ 0.6 in) at the clutch lever end. If the free play is incorrect, adjust as follows.

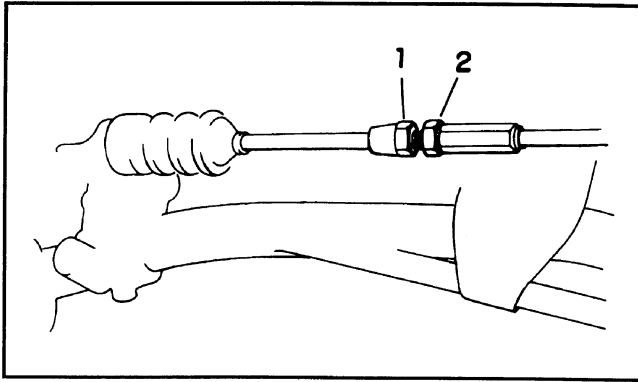
Free play:  
10 ~ 15 mm (0.4 ~ 0.6 in)

1. Loosen the lock nut at the handlebar.
2. Turn the adjuster in or out until proper lever free play is obtained.
3. Tighten the lock nut.



1. Lock nut      2. Adjuster      a. 10 ~ 15 mm (0.4 ~ 0.6 in)

4. If the free play is still incorrect, make an adjustment at the crankcase side.



1. Lock nut
2. Adjuster

**NOTE:** \_\_\_\_\_

If proper adjustment cannot be obtained or the clutch does not work correctly, ask a Yamaha dealer to inspect the internal clutch mechanism.

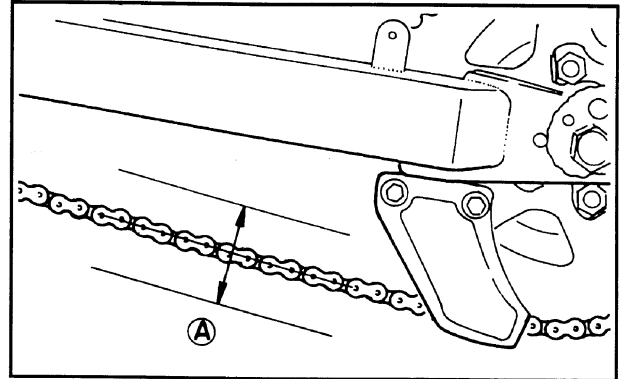
EAU00744

**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 is in this tightest position.

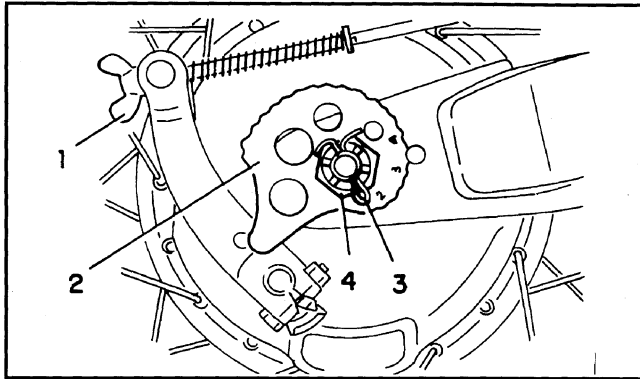
To check the chain slack the motorcycle must be held straight up with both wheels on the ground and without rider. Check the slack at the position shown in the illustration. Normal slack is approximately 35 ~ 45 mm (1.4 ~ 1.8 in). If the slack exceeds 45 mm (1.8 in), adjust.



a. 35 ~ 45 mm (1.4 ~ 1.8 in)

## Drive chain slack adjustment

1. Loosen the rear brake adjuster.
2. Remove the cotter pin from the axle nut.
3. Loosen the axle nut.
4. Turn both left and right chain pullers the same amount. Make sure that they are in the same position for proper wheel alignment.
5. After adjusting, be sure to tighten the axle nut.



1. Adjuster  
2. Chain puller

3. Cotter pin  
4. Axle nut

### CAUTION:

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

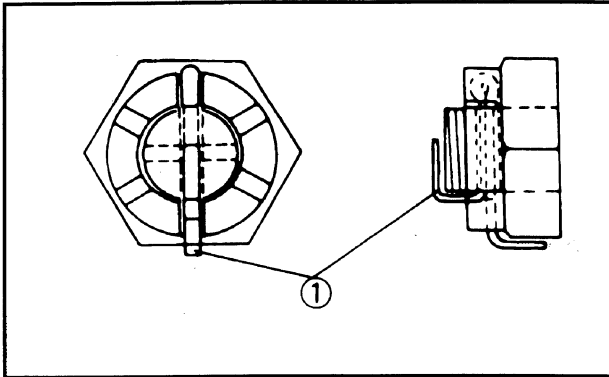
Axle nut torque:  
85 N.m (8.5 Kg.m, 62 lb.ft)

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.

## 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.

1. Use Yamaha Chain and Cable Lube or any brands of spray-type chain lubricant. First, remove all dirt and mud from the chain with a brush or cloth, then spray lubricant between both rows of side plates and on all center rollers. The chain should be lubricated every 500 km (300 mi).
2. To clean the chain, remove it from the machine, dip it in solvent, and clean out as much dirt as possible. Take the chain out of the solvent and dry it. Immediately lubricate the chain to prevent it from rusting.



1. Cotter pin

EW000110

### **⚠ WARNING:**

**Always use a new cotter pin on the axle nut.**

7. Adjust the free play in the brake pedal.

EAU01541

## Cable inspection and lubrication

EW000111

### **WARNING:**

**Damage to the outer housing of cables may allow internal rusting and cause interfere 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 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 pedals

Lubricate the pivoting parts.

#### RECOMMENDED LUBRICANT:

Yamaha Chain and Cable Lube or SAE  
10W30 motor oil

EAU00777

## Brake and clutch levers

Lubricate the pivoting parts.

#### RECOMMENDED LUBRICANT:

Yamaha Chain and Cable Lube or SAE  
10W30 motor oil

EAU01542

## Sidestand

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

### RECOMMENDED LUBRICANT:

Yamaha Chain and Cable Lube or SAE  
10W30 motor oil

EW000113

### **WARNING:**

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

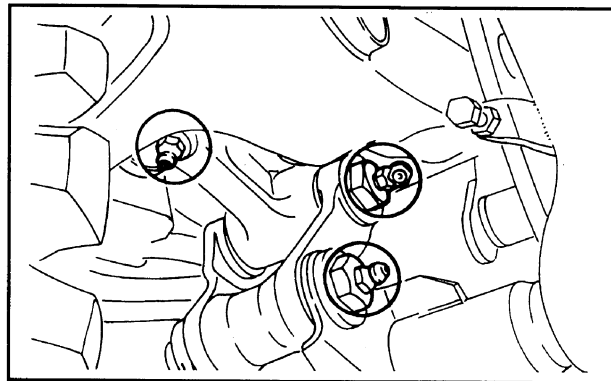
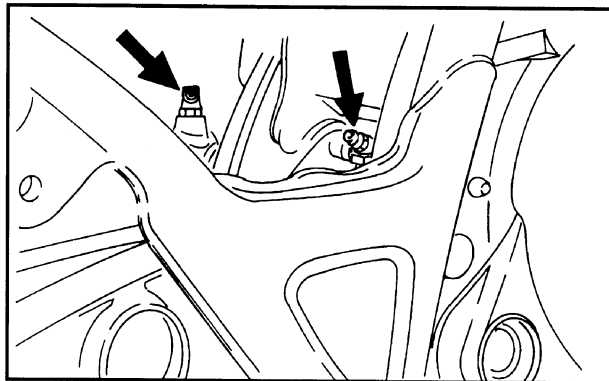
EAU00790

## Rear suspension

Lubricate the pivoting parts.

### RECOMMENDED LUBRICANT:

Molybdenum disulfide grease





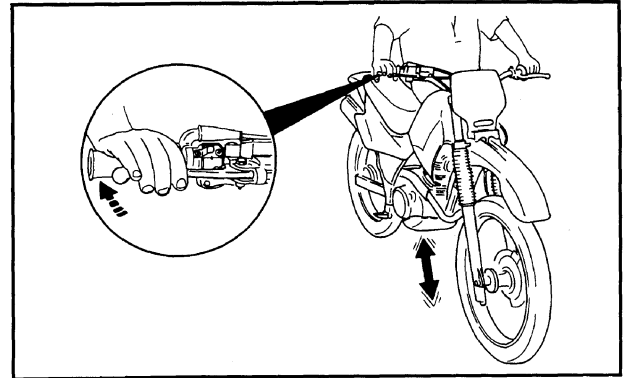
## Front fork inspection

EW000115

### **WARNING:**

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

1. Visual check  
Check for scratches or damage on the inner tube and excessive oil leakage from the front fork.
2. 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 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.**

## Rear shock absorber

EAU00315

### **⚠ WARNING:**

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.

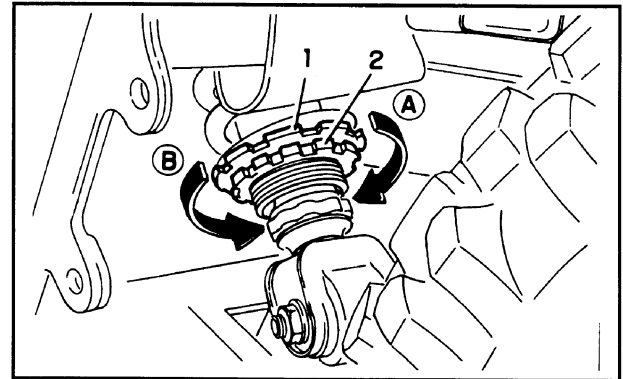
1. Do not tamper with or attempt to open the cylinder assembly.
2. Do not subject the shock absorber to an open flame or other high heat source. This may cause the unit to explode due to excessive gas pressure.
3. Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping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

EAU00293

## Rear shock absorber adjustment

This shock absorber is equipped with a spring preload adjuster. The spring preload can be adjusted to suit rider's preferences; cargo weight and road conditions. Adjust the spring preload as follows.

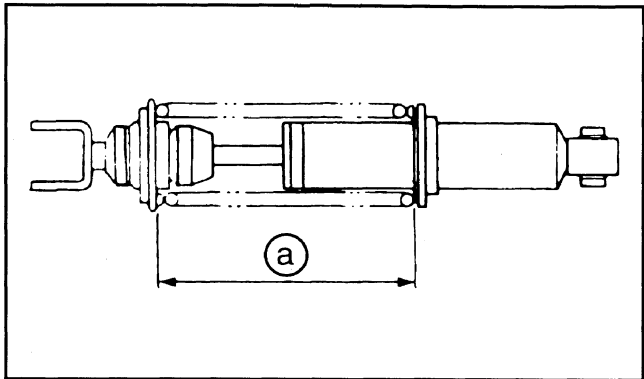
1. Loosen the lock nut.
2. Adjust the spring by turning the spring preload adjuster with a special wrench.



1. Spring preload adjuster  
A. Increase  
B. Decrease

2. Lock nut

3. Turn adjuster in direction (A) to increase spring preload and in direction (B) to decrease spring preload. The length of the spring (installed) changes 1 mm (0.04 in) per turn of the adjuster.



Measurement (a)

Standard length (installed):  
174 mm (6.9 in)

Minimum length (installed):  
169.5 mm (6.7 in)

Maximum length (installed):  
181 mm (7.1 in)

EC000015

**CAUTION:**

**Never attempt to turn the adjuster beyond the maximum or minimum setting.**

Tightening torque:

54 N.m (5.4 Kg.m, 39 lb.ft)

EC000018

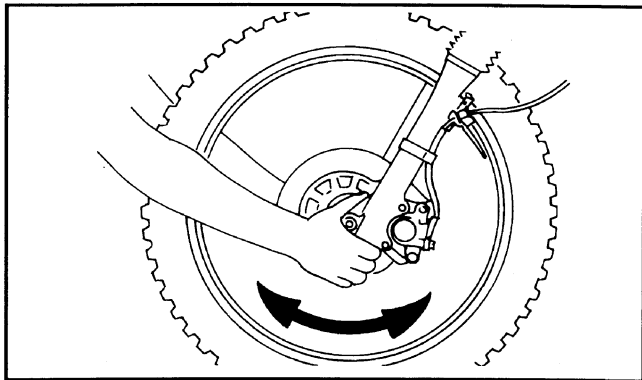
**CAUTION:**

**Always tighten the lock nut against the spring adjuster and torque the lock nut to the specified torque.**

EAU00794

## Steering inspection

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

## **⚠ WARNING:**

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

EAU01144

## Wheel bearings

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. The wheel bearings should be inspected according to the Maintenance Schedule.

EAU01071

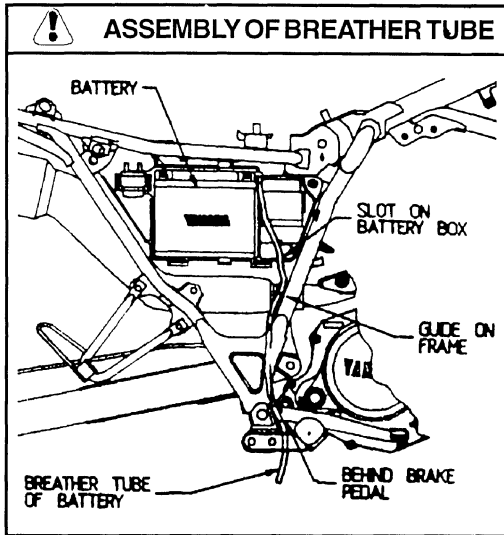
## Battery

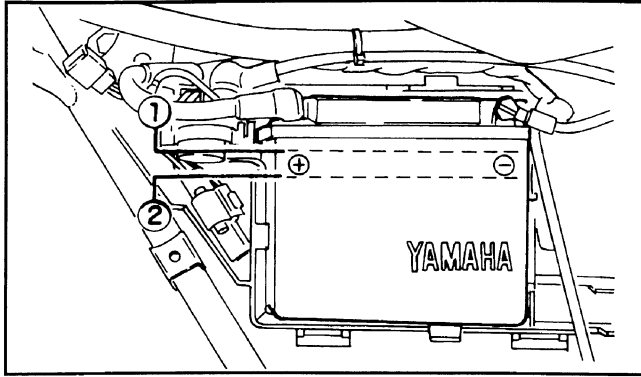
Check the level of the battery electrolyte and make sure that the terminals are tight. Add distilled water if the electrolyte level is low.

EC000099

### CAUTION:

When inspecting the battery, make sure that the battery breather pipe routing is correct. If the breather pipe touches painted parts, or if its end is in such a position that may cause gas or electrolyte leakage, it may cause structural or esthetic damages to the motorcycle.





1. Maximum level "UPPER LEVEL"
2. Minimum level "LOWER LEVEL"

## Replenishing the battery fluid

A poorly maintained battery will corrode and discharge quickly. The battery fluid should be checked at least once a month.

1. The level should be between the minimum and maximum marks. Use only "distilled water" if refilling is necessary.

EC000100

### **CAUTION:**

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

**⚠ WARNING:**

**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.**

---

2. When the motorcycle is not used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.
3. If the battery needs to be stored for a longer period than the period mentioned above, check the specific gravity at least once a month, and recharge it when the specific gravity is below normal.
4. Always make sure the connections are correct when reinstalling the battery. The red (positive) lead is for the + terminal and the black (negative) lead is for the - terminal. Always connect the red (positive) lead first, then connect the black (negative) lead. Make sure that the battery breather pipe is correctly routed, free of obstructions, and in good condition.

**⚠ WARNING:**

**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 it in an enclosed space. Always shield your eyes when working near batteries.**

**KEEP OUT OF REACH OF CHILDREN.**

---

EAU00804

## Fuse replacement

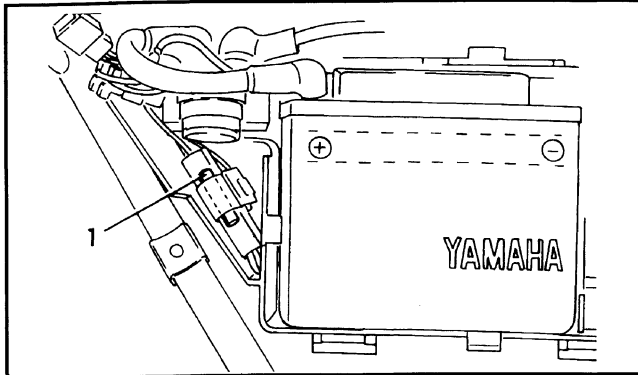
If a fuse is blown, turn off the ignition switch and the switch of the circuit in question. Install a new fuse of proper amperage. Turn on the switches and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer.

EC000103

**⚠ WARNING:**

**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.**

FUSE CAPACITY:15A



1. Spare fuse



EAU00880

## Front wheel removal

EW000121

EW000115

### **WARNING:** \_\_\_\_\_

It is advisable to have a Yamaha dealer service the wheel.

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

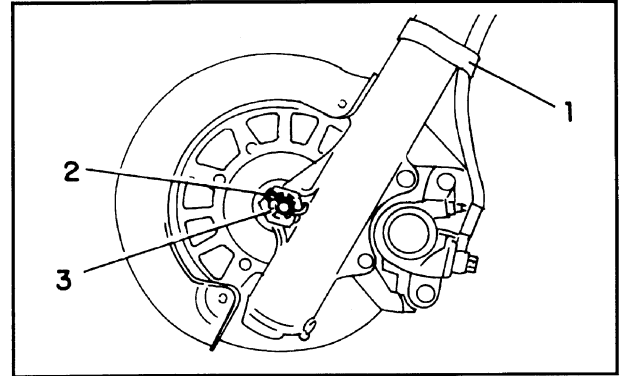
---

1. Place a stand under the engine to raise the front wheel off the ground.
2. Remove the disc cover and holder.
3. Remove the cotter pin and axle nut. Make sure the motorcycle is securely supported.

### **NOTE:** \_\_\_\_\_

Do not depress the brake lever when the disc is off the caliper as the brake pads will be forced shut.

---



1. Holder  
3. Cotter pin

2. Axle nut

EAU00910

## Front wheel installation

When installing the front wheel, reverse the removal procedures. Pay attention to the following points:

1. Make sure the axle nut is properly torqued, and a new cotter pin is installed.

EW000124

**⚠ WARNING:**

**Always use a new cotter pin to the axle nut.**

Axle nut torque:  
85 N.m (8.5 Kg.m, 62 lb.ft)

EAU01505

**Rear wheel removal**

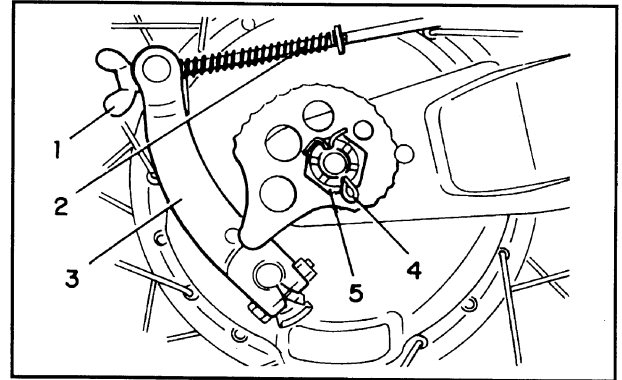
EW000122

**⚠ WARNING:**

**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 adjuster.
2. Remove the brake rod from the brake cam lever.
3. Remove the axle nut cotter pin, and loosen the axle nut.



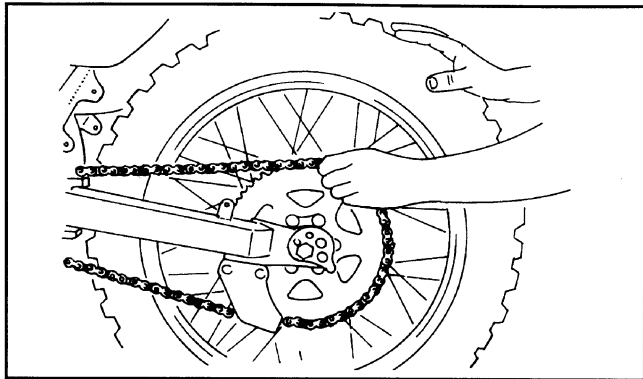
1. Adjuster
2. Brake rod
3. Brake cam lever
4. Cotter pin
5. Axle nut

4. Elevate the rear wheel by placing a stand under the engine.
5. Remove the axle nut.

6. Push the wheel forward and remove the drive chain.

**NOTE:** \_\_\_\_\_

There is no need of disassembling the drive chain to remove or reinstall the rear wheel.



7. Pull out the axle and remove the wheel assembly by pulling backward.

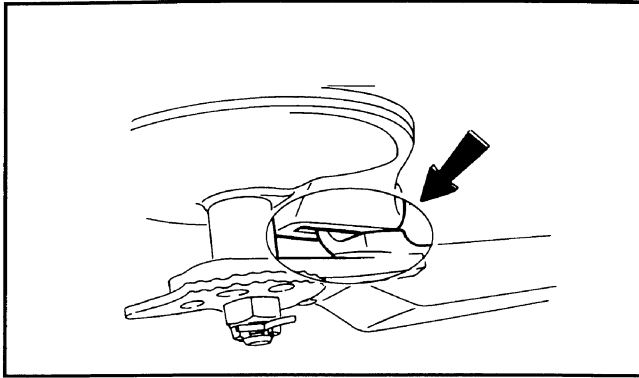
EAU00999

## Rear wheel installation

When installing the rear wheel, reverse the removal procedures. Pay attention to the following points:

1. Be sure the slot in the brake shoe plate is fit over the stopper on the rear arm.
2. Make sure the rear wheel axle is inserted from the left-hand side and that the chain pullers are installed with the punched side outward.
3. Adjust the drive chain.
4. Make sure the axle nut is properly torqued, and a new cotter pin is installed.

## Troubleshooting



EW000110

**⚠ WARNING:**

**Always use a new cotter pin on the axle nut.**

Axle nut torque:  
85 N.m (8.5 Kg.m, 62 lb.ft)

5. Adjust the rear brake. (See page 5-17)

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 a 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 they are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.

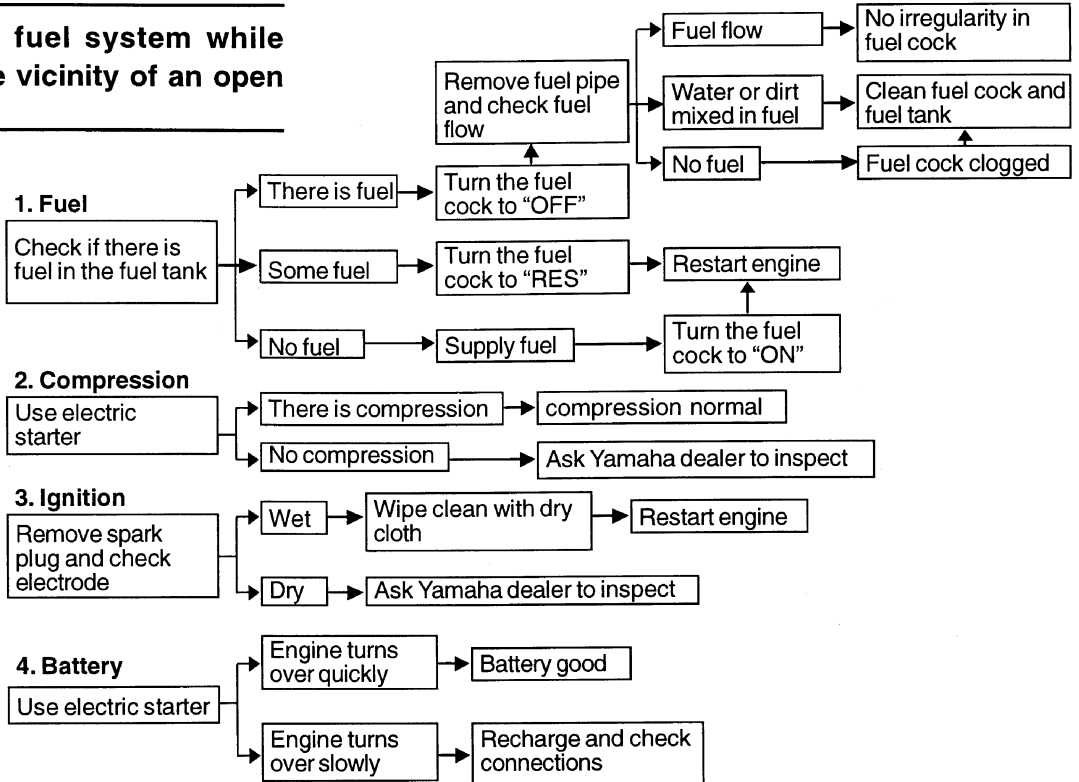
# Troubleshooting chart

EW000125



**WARNING:**

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



## CLEANING AND STORAGE

### A. CLEANING

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.

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:**

**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.**

---

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.
5. Rinse the motorcycle off immediately with clean water and dry all surfaces with a chamois, clean towel, or soft absorbent cloth.
6. Dry the chain and lubricate it to prevent rust.
7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.
8. Automotive-type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleaner-waxes. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine and let it idle for several minutes.

## B. STORAGE

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

1. Drain the fuel tank, fuel lines, and carburetor float bowl(s).
2. Remove the spark plug(s), pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug hole(s) and reinstall the spark plug(s).  
Kick the engine over several times (with the ignition off) to coat the cylinder walls with oil.
3. Remove the drive chain. Clean it thoroughly with solvent and lubricate it.  
Reinstall the chain or store it in a plastic bag (tied to frame for safe-keeping).
4. Lubricate all control cables.
5. Block up the frame to raise both wheels off the ground.
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 charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C (30°F) or more than 30°C (90°F)).

**NOTE:** \_\_\_\_\_

Make any necessary repairs before storing the machine.

---

## SPECIFICATIONS

MODEL	TTR225
Dimension:  Overall length Overall width Overall height Seat height Wheel base Minimum ground clearance	2,070 mm (81,49 in) 820 mm (32,28 in) 1,160 mm (45,66 in) 855 mm (33,66 in) 1,350 mm (53,14 in) 285 mm (11,22 in)
Basic weight: With oil and without fuel	118 Kg (260,19 lb)
Minimum turning radius:	1,900 mm (74,80 in)
Engine:  Type Cylinder arrangement Displacement Bore x Stroke Compression rate Starting system Lubrication system	Air cooled, 4-stroke gasoline, SOHC Single cylinder, Forward inclined 223 cm <sup>3</sup> 70 x 58 mm (2,75 x 2,28 in) 9.5 : 1 Electric starter Wet sump



MODEL	TTR225
<p>Engine oil: Type</p> <p>Capacity: Periodic oil change With oil filter replacement Total amount</p>	<p>Yamalube 4 (10W30) or SAE 10W30 type SE motor oil</p> <p>1.0 L (0.9 Imp qt, 1.1 US qt) 1.1 L (1.0 Imp qt, 1.2 US qt) 1.3 L (1.1 Imp qt, 1.4 US qt)</p>
<p>Air filter:</p>	<p>Wet type element</p>
<p>Fuel: Type Tank capacity Reserve amount</p>	<p>Regular unleaded gasoline 10 L (2.2 Imp gal, 2.6 US gal) 1.8 L (0.4 Imp gal, 0.5 US gal)</p>
<p>Carburetor: Type/manufacturer</p>	<p>BST34 / MIKUNI</p>
<p>Spark plug: Type/manufacturer Gap</p>	<p>DR8EA / NGK 0.6 ~ 0.7 mm</p>
<p>Clutch type:</p>	<p>Wet, multi-disc</p>

MODEL	TTR225
<p>Transmission:</p> <p>Primary reduction system</p> <p>Primary reduction rate</p> <p>Secondary reduction system</p> <p>Secondary reduction rate</p> <p>Transmission type</p> <p>Operation</p> <p>Gear ratio     1st</p> <p>                  2nd</p> <p>                  3rd</p> <p>                  4th</p> <p>                  5th</p> <p>                  6th</p>	<p>Spur gear</p> <p>73 / 22 (3.318)</p> <p>Chain drive</p> <p>58 / 15 (3.867)</p> <p>Constant mesh 6-speed</p> <p>Left foot operation</p> <p>34 / 11 (3.090)</p> <p>30 / 15 (2.000)</p> <p>30 / 21 (1.428)</p> <p>27 / 24 (1.125)</p> <p>25 / 27 (0.925)</p> <p>23 / 29 (0.793)</p>
<p>Chassis:</p> <p>Frame type</p> <p>Caster angle</p> <p>Trail</p>	<p>Diamond</p> <p>26.5°</p> <p>102 mm (4,01 in)</p>
<p>Tire:</p> <p>Type</p> <p>Size:</p> <p>Front</p> <p>Rear</p>	<p>With tube</p> <p>80/100-21 MT 21</p> <p>100/100-18 MT 21</p>

MODEL	TTR225
Brakes: Front brake type Operation Rear brake type Operation	Single, Disc brake Right hand operation Drum brake Right foot operation
Suspension: Front Rear	Telescopic fork Swingarm (New monocross suspension)
Shock absorber: Front Rear	Coil spring, Oil damper Gas, Coil spring, Oil damper
Wheel travel: Front Rear	225 mm (8,85 in) 190 mm (7,48 in)
Electrical: Ignition system Generator system Battery type / capacity	CDI AC Magneto generator HS7B-B / 12V 7 Ah

## 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

MOTORCYCLE NOISE EMISSION LIMIT/CLOSING  
82dBA at 7293r/min.

**MAINTENANCE RECORD**

Make sure whoever performs the maintenance completes this record.

MAINTENANCE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
1 month				
7 months				
13 months				
19 months				
25 months				

MAINTENANCE INTERVAL	DATE OF SERVICE	MILEAGE	SERVICING DEALER NAME AND ADDRESS	REMARKS
31 months				
37 months				
43 months				
49 months				
55 months				
61 months				

# YAMAHA MOTOR CORPORATION, U.S.A.

## OFF-ROAD MOTORCYCLE LIMITED WARRANTY

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

**THE PERIOD OF WARRANTY** for Yamaha off-road motorcycles shall be ninety (90) days from the date of purchase, with no mileage limitations.

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

**DURING THE PERIOD OF WARRANTY** any authorized Yamaha motorcycle dealer will, free of charge, repair or replace, at Yamaha's option, 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 Corporation U.S.A.

**GENERAL EXCLUSIONS** from the warranty shall include any failures caused by:

- a. Competition or racing use (except TY models used for sanctioned trials).
- b. Installation of parts or accessories that are not qualitatively equivalent to genuine

- c. Yamaha parts.
- d. Abnormal strain, neglect, or abuse.
- e. Lack of proper maintenance.
- f. Accident or collision damage.
- g. Modification to original parts.

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

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

1. Operate and maintain the motorcycle as specified in the appropriate Owner's Manual, and
2. 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 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.

**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 LIMIT MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.**

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

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

## WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
- A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark plugs, and brake shoes.
- Q. What are some examples of "abnormal" strain, neglect or abuse?
- A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil; sustained high-rpm, full-throttle use; 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; and so on. If you have any specific questions on operation or maintenance, please contact your dealer for advice.
- Q. Does the warranty cover incidental costs as towing or transportation due to a failure?
- A. No. The warranty is limited to repair of the machine itself.
- Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
- A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha 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 "canceled". 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.
- Q. What responsibility does my dealer have under this warranty ?
- A. Each Yamaha motorcycle dealer is expected to:
1. Completely set up every new machine before sale.
  2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
- In addition, 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 identification 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, addresses, model, frame serial number, dates, and receipts.

## CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-dated 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, frame serial number, dealer number (or dealer's name) as it is shown on your warranty identification, your name and new mailing address. Mail to:

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

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



## YAMAHA EXTENDED SERVICE (Y.E.S.)

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

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, 36 months or, on certain models, even 48 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 factory-backed 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 you Yamaha much more valuable!.

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.

We urge 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.

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

1-(866)-YES-EXTD (1-866-937-3983)



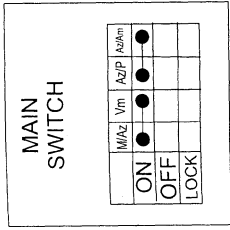
YAMAHA



EXTENDED



SERVICE



COLOR CODE	
AC	SKY BLUE
AM	YELLOW
AZ	BLUE
B	WHITE
L	ORANGE
M	BROWN
P	BLACK
Vd	GREEN
VM	RED

