# YAMAHA

## **OWNER'S MANUAL**



4HA-28199-24

## INTRODUCTION

YZF750RH/YZF750SPH OWNER'S MANUAL ©1995 by Yamaha Motor Co., Ltd. 1st Edition, December 1995 All rights reserved. Any reprinting or unauthorized use without the written permission of Yamaha Motor Co., Ltd. is expressly prohibited. Printed in Japan Congratulations on your purchase of the Yamaha YZF750R/SP. 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. Particularly important information is distinguished in this manual by the following notations:

## ⚠

The Safety Alert Symbol means ATTEN-TION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

## **A**WARNING

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

## CAUTION:

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

### NOTE:

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

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

This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.

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

Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.

## **WARNING**

PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE.

## CONTENTS

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SAFETY INFORMATION (YZF750R)1-1
SAFETY INFORMATION (YZF750SP)1-8
LOCATION OF THE IMPORTANT LABELS2-1
DESCRIPTION
MOTORCYCLE IDENTIFICATION
CONTROL FUNCTIONS

Handlebar switches5-10
Clutch lever 5-13
Shift pedal 5-13
Front brake lever5-14
Rear brake pedal5-14
Fuel tank cap5-15
Starter "CHOKE"5-16
Steering lock 5-16
Passenger and rider seats
(For YZF750R)5-18
Seat cover removal (For YZF750R)5-20
Seat (For YZF750SP)5-21
Helmet holder (For YZF750R)5-22
Storage compartment
(For YZF750R)5-22
Lower cowling removal
Side cowling removal
Front fork and rear shock absorber5-25
EXUP
(Exhaust Ultimate Power valve)5-26
Sidestand5-27
Sidestand/
clutch switch operation check 5-28

PRE-OPERATION CHECKS6-1	PERI
Brakes6-4	MIN
Brake/Clutch fluid leakage6-5	То
Throttle grip6-5	Pe
Engine oil6-6	То
Coolant6-6	En
Chain6-7	Co
Tires (For YZF750R)6-8	Ra
Tires (For YZF750SP)6-12	Air
Tubeless tires and cast wheels6-16	Ca
Fittings/Fasteners6-17	Idle
Lights and signals6-18	Th
Switches6-18	Va
Fuel6-19	Sp
	-

OPERATION AND	
IMPORTANT RIDING POINTS	7-1
Starting and warming up	
a cold engine	7-2
Starting a warm engine	7-5
Shifting	7-6
Engine break-in	7-6
Parking	7-8

PERIODIC MAINTENANCE AND	
MINOR REPAIR	8-1
Tool kit	
Periodic maintenance / lubrication.	8-4
Torque specifications	8-7
Engine oil	
Cooling system	8-13
Radiator fan	
Air filter	8-17
Carburetor adjustment	8-19
Idle speed adjustment	8-20
Throttle cable adjustment	8-21
Valve clearance adjustment	8-21
Spark plug inspection	8-22
Front brake lever position	
adjustment	8-23
Rear brake pedal height	
adjustment	
Brake light switch adjustment	8-24
Checking the front and	
rear brake pads	.8-25
Inspecting the brake fluid level	.8-26
Brake fluid replacement	.8-27

Clutch lever position adjustment 8-28
Clutch lever free play adjustment8-28
Drive chain slack check
Drive chain slack adjustment 8-30
Drive chain lubrication 8-31
Cable inspection and lubrication 8-31
Throttle cable and grip lubrication 8-32
Brake and shift pedal lubrication 8-32
Brake and clutch lever lubrication 8-33
Sidestand lubrication 8-33
Rear suspension lubrication
Front fork inspection 8-34
Front fork adjustment 8-36
Rear shock absorber
Rear shock absorber adjustment
(For YZF750R) 8-40
Rear shock absorber adjustment
(For YZF750SP) 8-43
Steering inspection
Wheel bearings 8-45
Battery 8-46

Fuse replacement	8-48
Headlight bulb replacement	
Front wheel removal	8-50
Front wheel installation	8-52
Rear wheel removal	8-54
Rear wheel installation	8-56
Troubleshooting	8-56
Troubleshooting chart	8-57
	0.1

CLEANING AND STORAGE	9-1
A Cleaning	9-2
B. Storage	9-4

SPECIFICATIONS	 	10-1
SPECIFICATIONS	 •••••	10-

HOW TO USE THE CONVERSION	
TABLE	11-1

NOISE REGULATION	
(FOR Australia)	12-1

WIRING DIAGRAM

For YZF750R

## A SAFETY INFORMATION

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

EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING.

HE OR SHE SHOULD:

- 1. OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL AS-PECTS OF MOTORCYCLE 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 motorcycle is designed to carry the operator and a passenger.

3. The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident.

#### Therefore:

- a. Wear a brightly colored jacket.
- b. Use extra caution when you approach and pass through intersections, since intersections are the most likely places for motorcycle accidents.
- c. Ride where other motorists can see you. Avoid riding in another motorist's "blind spot".
- 4. Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
  - a. Make sure you are qualified. Also, only lend your motorcycle to experienced operators.
  - b. Know your skills and limits. Staying within your limits may help you to avoid an accident.
  - c. We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with your motorcycle and all of its controls.
- 5. Many motorcycle accidents have been caused by motorcycle operator errors. A typical error made by the operator is veering wide on a turn due to EXCESSIVE SPEED or undercornering (insufficient lean angle for the speed).

- a. Always obey the speed limits and never travel faster than warranted by road and traffic conditions.
- b. Always signal before turning or changing lanes. Make sure other motorists see you.
- 6. The operator's and passenger's posture are important for proper control.
  - a. The operator should keep both hands on the handlebars and both feet on the operator footrests during operation to maintain control of the motorcycle.
  - b. The passenger should always hold on to the operator, or the seat strap or grab bar if the motorcycle is so equipped, with both hands and keep both feet on the passenger footrests.
  - c. Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.
- 7. Never ride under the influence of alcohol or drugs.
- 8. This motorcycle is designed for on-road use only. It is not suitable for off-road use.

## **PROTECTIVE APPAREL**

The majority of fatalities from motorcycle accidents are the result of head injuries. The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries.

- 1. Always wear an approved helmet.
- 2. Wear a face shield or goggles. Wind on your unprotected eyes could contribute to an impairment of vision which could delay seeing a hazard.

- 3. The use of heavy boots, jacket, trousers, gloves, etc. is effective in preventing or reducing abrasions or lacerations.
- 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
- Never touch the engine of exhaust system protective clothing that covers your legs, very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.
- 6. A passenger should also observe the above precautions.

## MODIFICATION

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

## LOADING AND ACCESSORIES

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

## LOADING

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 169 kg.

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

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

## ACCESSORIES

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories which may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. You should use extreme caution when selecting and installing any accessories. Keep in mind these guidelines for mounting accessories in addition to those provided under "LOADING".

- 1. Never install accessories or carry cargo that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.
  - a. Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.
  - b. Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds. These accessories may also cause instability when being passed by or passing large vehicles.
  - c. Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability. Therefore such accessories are not recommended.
- 2. Caution must be used if adding electrical accessories. If these accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

## GASOLINE AND EXHAUST GAS

- **1. GASOLINE IS HIGHLY FLAMMABLE:** 
  - a. Always turn off the engine when refueling.
  - b. Take care not to spill any gasoline on the engine or exhaust pipe(s)/muffler(s) when refueling.
  - c. Never refuel while smoking or in the vicinity of an open flame.
- 2. Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation.
- 3. Always turn off the engine before leaving the motorcycle unattended and remove the ignition key. When parking the motorcycle, note the following:
  - a. The engine and exhaust pipe(s)/muffler(s) may be hot. Park the motorcycle in a place where pedestrians or children are not likely to touch these hot areas.
  - b. Do not park the motorcycle on a slope or soft ground; the motorcycle may fall over.
  - c. Do not park the motorcycle near a flammable source, e.g. a kerosene heater, or near an open flame. The motorcycle could catch fire.
- 4. When transporting the motorcycle in another vehicle, be sure it is kept upright. 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 eye(s), 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.

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## SAFE RIDING

- 1. Always make pre-operation checks. Careful checks may help prevent an accident.
- 2. This motorcycle is designed to carry the operator only. No passengers.

3. The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident.

Therefore:

- a. Wear a brightly colored jacket.
- b. Use extra caution when you approach and pass through intersections, since intersections are the most likely places for motorcycle accidents.
- c. Ride where other motorists can see you. Avoid riding in another motorist's "blind spot".
- 4. Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
  - a. Make sure you are qualified. Also, only lend your motorcycle to experienced operators.
  - b. Know your skills and limits. Staying within your limits may help you to avoid an accident.
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- 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 motorcycle not approved by Yamaha, or the removal of original equipment, may render your motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use.

## LOADING AND ACCESSORIES

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## LOADING

The total weight of the operator, accessories and cargo must not exceed the maximum load limit of 97 kg.

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

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

## ACCESSORIES

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories which may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. You should use extreme caution when selecting and installing any accessories. Keep in mind these guidelines for mounting accessories in addition to those provided under "LOADING".

- 1. Never install accessories or carry cargo that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.
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  - c. Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability. Therefore such accessories are not recommended.
- 2. Caution must be used if adding electrical accessories. If these accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

## GASOLINE AND EXHAUST GAS

- 1. GASOLINE IS HIGHLY FLAMMABLE:
  - a. Always turn off the engine when refueling.
  - b. Take care not to spill any gasoline on the engine or exhaust pipe(s)/muffler(s) when refueling.
  - c. Never refuel while smoking or in the vicinity of an open flame.
- 2. Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation.
- 3. Always turn off the engine before leaving the motorcycle unattended and remove the ignition key. When parking the motorcycle, note the following:
  - a. The engine and exhaust pipe(s)/muffler(s) may be hot. Park the motorcycle in a place where pedestrians or children are not likely to touch these hot areas.
  - b. Do not park the motorcycle on a slope or soft ground; the motorcycle may fall over.
  - c. Do not park the motorcycle near a flammable source, e.g. a kerosene heater, or near an open flame. The motorcycle could catch fire.
- 4. When transporting the motorcycle in another vehicle, be sure it is kept upright and that the fuel cock(s) is turned to "ON" or "RES" (for vacuum type)/"OFF" (for manual type). If it should lean over, gasoline may leak out of the carburetor or fuel tank.
- 5. If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get in your eye(s), see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash it off with soap and water and change your clothes.

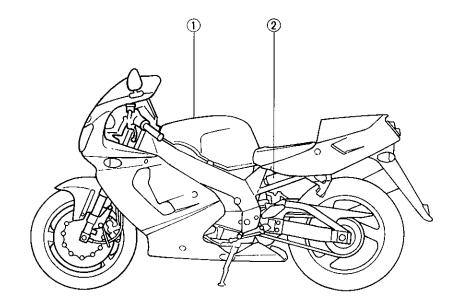
## LOCATION OF THE IMPORTANT LABELS

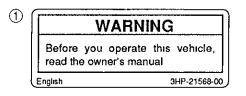
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## Please read the following labels carefully before operating this motorcycle





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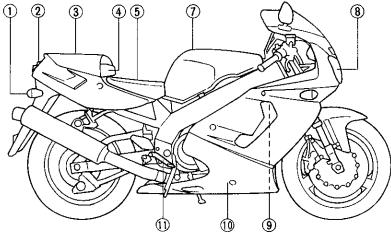


## DESCRIPTION

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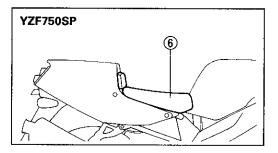
YZF750R



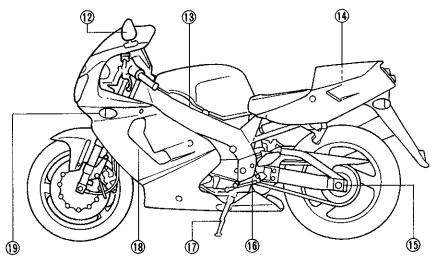
- 1 Rear flasher light
- 2 Tail/brake light
- 3. Passenger seat cover
- 4 Passenger seat
- 5 Rider seat
- 6 Seat
- 7. Fuel tank
- 8. Dual headlight
- 9. Radiator
- 10. Lower cowling
- 11. Brake pedal

(Page 5-20) For YZF750R (Page 5-18). For YZF750R (Page 5-18): For YZF750R (Page 5-21) For YZF750SP (Page 5-15)

(Page 8-13) (Page 5-23) (Page 5-14)

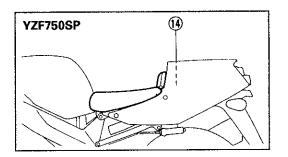


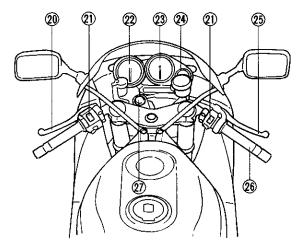
**YZF750R** 



- 12. Rear view mirror
- 13. Starter lever "CHOKE"
- 14. Tool kit
- 15. Chain puller
- 16. Shift pedal
- 17. Sidestand
- 18. Side cowling
- 19. Front flasher light

- (Page 5-16) (Page 8-3)
- (Page 5-13)
- (Page 5-27)
- (Page 5-24)





20. Clutch lever	(Page 5-13)
21. Handlebar switches	(Page 5-10)
22. Speedometer	(Page 5-8)
23. Tachometer	(Page 5-8)
24. Engine temperature gauge	(Page 5-10)
25 Brake lever	(Page 5-14)
26. Throttle grip	(Page 8-21)
27. Main switch	(Page 5-2)

## MOTORCYCLE IDENTIFICATION

#### Identification numbers record

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

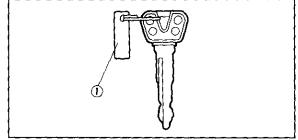
1. KEY IDENTIFICATION NUMBER:

## 2. VEHICLE IDENTIFICATION NUMBER:

### 3. MODEL LABEL INFORMATION:

0	
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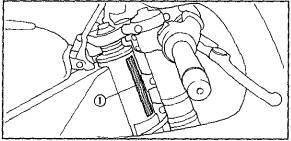
#### Key identification number



1 Key identification number

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

### Vehicle identification number



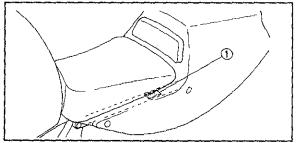
1 Vehicle identification number

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

#### 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.

### Model label



1 Model label

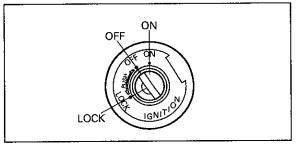
The model label is affixed to the frame. Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.

## CONTROL FUNCTIONS

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- -

### Main switch



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

#### ON:

Electrical circuits are switched on, and the headlight, meter light, taillight and license light come on. The engine can be started. The key cannot be removed in this position.

#### OFF:

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

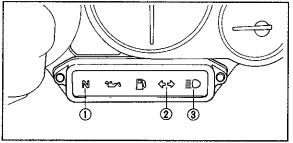
#### LOCK:

The steering is locked in this position, and all electrical circuits are switched off. The key can be removed in this position. Refer to "Steering lock" (page 5-16) for operation instructions.

#### NOTE:--

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

### **Indicator lights**

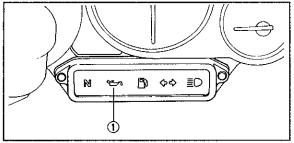


- 1 Neutral indicator light " N "
- 2 Turn indicator light " < > "
- 3 High beam indicator light " D "

Neutral indicator light "  ${\bf N}$  " This indicator comes on when the transmission is in neutral.

Turn indicator light " <> " This indicator flashes when the turn switch is moved to the left or right.

High beam indicator light " ₽ " This indicator comes on when the headlight high beam is used.



1 Oil level indicator light " 🗁 "

Oil level indicator light " 🖘 "

This indicator comes on when the oil level is low. This light circuit can be checked by the following procedure.

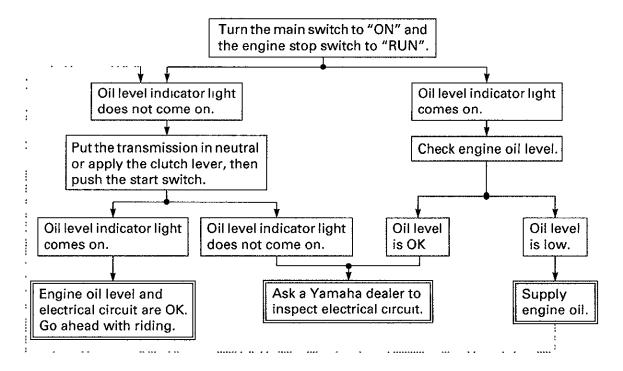
CAUTION:

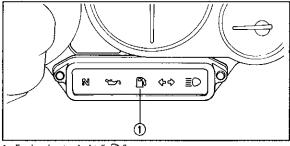
Do not run the motorcycle until you know it has sufficient engine oil.

### NOTE:-

Even if the oil is filled to the specified level, the indicator light may flicker when riding on a slope or during sudden acceleration or deceleration, but this is not abnormal.

#### **Oil level indicator circuit check**



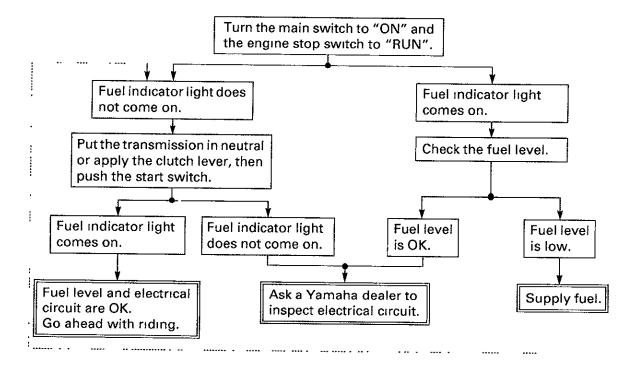


1 Fuel indicator light " 🔊 "

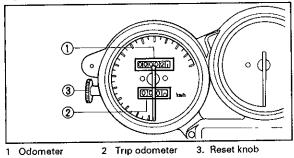
Fuel indicator light " B "

When the fuel level drops below approximately 3.5 L, this light will come on. When this light comes on, fill the tank at the first opportunity.

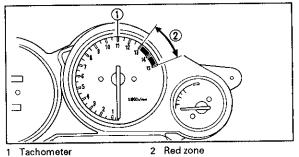
#### Fuel indicator circuit check



#### Speedometer



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



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

#### CAUTION

Do not operate in the red zone Red zone: 13,000 r/min and above

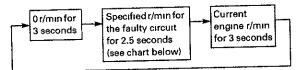
#### **Diagnosis device**

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This model is equipped with a self diagnosis for the following circuits.

- Throttle Position Sensor (T.P.S.) circuit
- Exhaust Ultimate Power valve (EXUP) circuit
- Fuel level indicator circuit

If some trouble should occur in any of these circuits, the tachometer will repeatedly display as follows:



Use this chart to identify what circuit is faulty according to the specified r/min displayed.

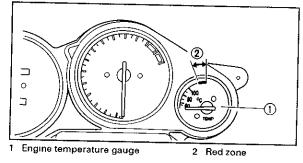
Specified r/min	Faulty circuit	
	Throttle Position Sensor (T.P.S	
9,000 r/min	Exhaust Ultimate Power valve (EXUP)	
7,000 r/min	Fuel level indicator	

If the tachometer displays as described above, take note of the specified r/min and then take your motorcycle to a Yamaha dealer for repair.

## CAUTION

To prevent engine damage, be sure to consult a Yamaha dealer as soon as possible if the tachometer displays a repeated change in r/min.

#### Engine temperature gauge

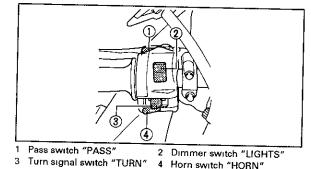


This gauge indicates the coolant temperature when the main switch is on. The engine operating temperature will vary with changes in weather and engine load. If the needle points to the red zone or higher, stop your motorcycle and let the engine cool. (see page 8-13 for details)

CAUTION:

When the engine is overheated, do not continue riding.

#### Handlebar switches

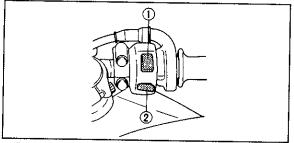


Pass switch "PASS"

Press the switch to operate the passing light.

Dimmer switch "LIGHTS" Turn the switch to "HI" for the high beam and to "LO" for the low beam. Turn signal switch "TURN" To signal a right-hand turn, push the switch to the right. To signal a left-hand turn, push the switch to the left. Once the switch is released it will return to the center position. To cancel the signal, push the switch in after it has returned to the center position.

Horn switch "HORN" Press the switch to sound the horn.



1 Engine stop switch "ENGINE STOP"

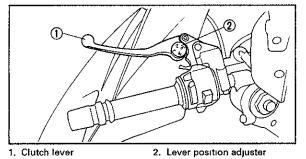
2 Start switch "START"

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

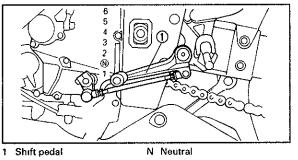
CAUTION

See starting instructions prior to starting the engine.

#### **Clutch lever**

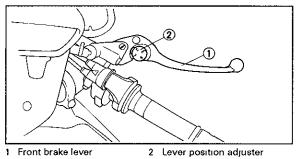


This model is equipped with a hydraulic clutch and lever position adjuster. (Refer to page 8-28 for lever adjustment procedure.) The clutch lever is located on the left handlebar and the ignition circuit cut-off system is incorporated in the clutch lever holder. Pull the clutch lever toward the handlebar 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. (Refer to the engine starting procedures for a description of the ignition circuit cut-off system.) Shift pedal

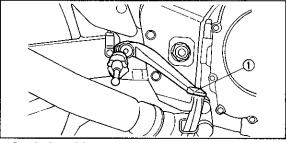


This motorcycle is equipped with a constant-mesh 6-speed transmission. The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting.

#### Front brake lever



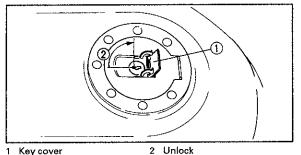
The front brake lever is located on the right handlebar. Pull it toward the handlebar to activate the front brake. The front brake lever is equipped with a lever position adjuster. Refer to page 8-23 for adjustment. Rear brake pedal



1 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:

Open the key cover. Insert the key and turn it 1/4 turn clockwise. The lock will be released and the cap can be opened.

#### TO CLOSE:

Push the tank cap into position with the key inserted. To remove the key, turn it counterclockwise to the original position. Then, close the key cover.

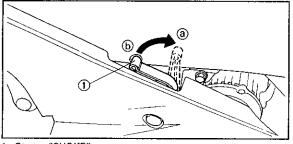
#### NOTE:

This tank cap cannot be closed unless the key is in the lock. The key cannot be removed if the cap is not locked properly

### **WARNING**

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

#### Starter "CHOKE"

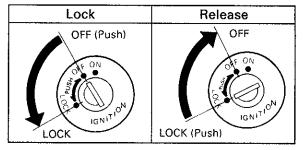


1 Starter "CHOKE"

Starting a cold engine requires a richer airfuel mixture. A separate starter circuit supplies this mixture.

Move in direction (a) to turn on the starter. Move in direction (b) to turn off the starter.

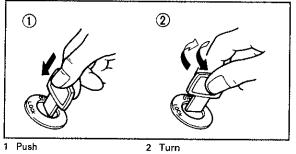
**Steering lock** 



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. While pushing the key into the main switch, turn it from "OFF" to "LOCK" and remove it. To release the lock, turn the key to "OFF" while pushing.

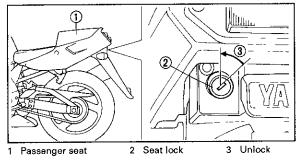
### **WARNING**

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





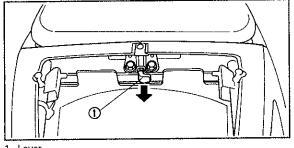
#### Passenger and rider seats (For YZF750R)



1 Holder (x 2) 2 Peg (x 2)

1. Passenger seat

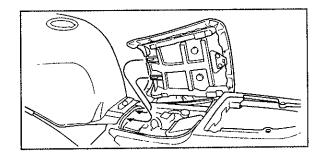
To remove the passenger seat, insert the key in the lock and turn it counterclockwise. To reinstall the passenger seat, hook the holders on the front of the seat under the pegs and push down on the seat.





2. Rider seat

To remove the rider seat, remove the passenger seat and pull the lever to release the rider seat.

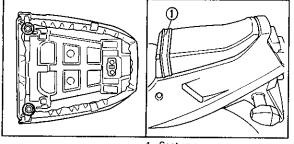


To reinstall the rider seat, insert the lobes on the front of the seat into the receptacle on the frame, push down on the seat to secure it, then reinstall the passenger seat.

NOTE:\_\_\_\_

Make sure that the seat is securely fitted.

#### Seat cover removal (For YZF750R)



1 Seat grip

Remove the passenger seat. Turn it upside-down and remove the bolts holding the seat cover. Install the passenger seat grip (located in the space under the passenger seat) with the bolts used to hold the seat cover.

1 Clearance 2 mm

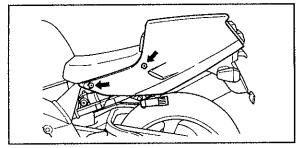
#### NOTE:

When installing the seat cover, reverse the removal procedures. Make sure there is at least 2 mm clearance between the seat cover and side cover.

### **WARNING**

The passenger seat grip must be installed and tightened while the seat cover is removed. See page 8-7 for specified tightening torque.

#### Seat (For YZF750SP)





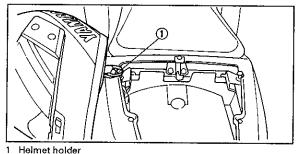
1 Coupler

To remove the seat, remove the bolts and disconnect the taillight coupler. When reinstalling the seat, insert the lobes on the seat front into the receptacle on the frame, then connect the coupler and tighten the bolts.

#### NOTE:

Make sure that the seat is securely fitted.

#### Helmet holder (For YZF750R)

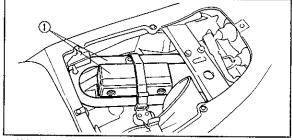


Remove the passenger seat and hook the helmet into the helmet holder. Then install the passenger seat.

### **WARNING**

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

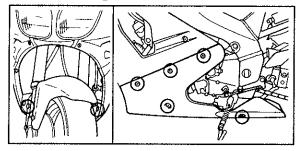
#### Storage compartment (For YZF750R)



1 U-lock

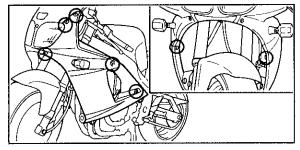
This storage compartment is designed to hold a U-LOCK. Be sure the lock is fastened securely with the straps when storing it in the compartment. It is advisable to store only Yamaha genuine U-LOCKS in this compartment.

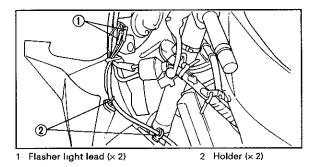
### Lower cowling removal



To remove the lower cowling, remove the bolts shown.

#### Side cowling removal

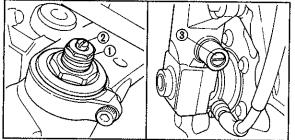




- 1. Remove the lower cowling.
- 2. Remove the speedometer cable from the front wheel side.
- 3. Remove the bolts shown.

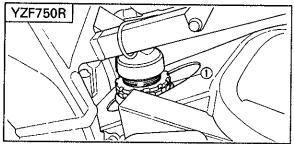
4. Disconnect the front flasher light leads. Then remove the speedometer cable from the holders.

#### Front fork and rear shock absorber

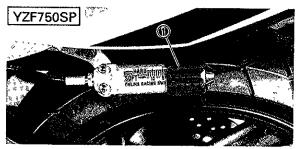


- 1 Spring preload adjuster
- 2 Rebound damping force adjuster
- 3. Compression damping force adjuster

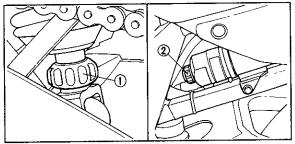
The spring preload and the damping force of the front fork and rear shock absorber can be adjusted to suit the rider's preference, motorcycle's load (ex: optional accessories, etc.) and road conditions. Refer to page 8-36 for proper adjustment procedures.



1. Spring preload adjuster

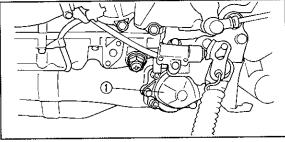


1. Spring preload adjuster



- 1 Rebound damping force adjuster
- 2 Compression damping force adjuster

#### EXUP (Exhaust Ultimate Power valve)



1 EXUP

This model is equipped with an EXUP system within the exhaust pipe. This valve is always activated by a computer-controlled servomotor in accordance with engine rpm.

## CAUTION

- The EXUP was set at the Yamaha factory after many tests. If the settings are changed by someone without sufficient technical knowledge, poor engine performance and damage may result.
- If the EXUP does not operate, ask a Yamaha dealer to inspect.

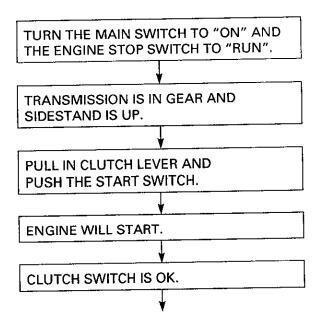
#### Sidestand

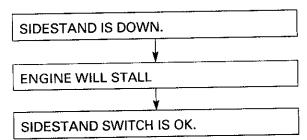
This model is equipped with an ignition circuit cut-off system. The motorcycle must not be ridden when the sidestand is down. The sidestand is located on the left side of the frame. (Refer to page 7-2 for an explanation of this system.)

### **WARNING**

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

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





### A WARNING

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

# PRE-OPERATION CHECKS

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### Before using this motorcycle, check the following points:

ITEM	ROUTINE	PAGE	
Front brake	<ul> <li>Check operation, free play, fluid level and fluid leakage</li> <li>Fill with DOT 4 brake fluid if necessary.</li> </ul>	fluid leakage 6-4~6-5,	
Rear brake	<ul> <li>• Check operation, free play, fluid level and fluid leakage</li> <li>• Fill with DOT 4 brake fluid if necessary.</li> </ul>		
Clutch	<ul> <li>Check operation, fluid level and fluid leakage.</li> <li>Fill with DOT 4 brake fluid if necessary.</li> </ul>	6-5, 8-28	
Throttle grip/housing	Check for smooth operation     Lubricate if necessary.	6-5, 8-21, 8-32	
Engine oil	Check oil level/fill with oil as required.	6-6, 8-8~8-12	
Coolant reservoir tank	Check coolant level/fill with coolant as required.	6-6~6-7, 8-13~8-16	
Drive chain	ve chain + Check chain slack and condition. • Adjust if necessary.		
Wheels/Tires	Check tire pressure, wear and damage	6-8~6-17, 8-50~8-56	
Control/Meter cable	Veter cable         • Check for smooth operation.           • Lubricate if necessary		
Brake and shift pedal shafts			
Brake and clutch lever pivots	<ul><li>Check for smooth operation.</li><li>Lubricate if necessary.</li></ul>	8-33	
Sidestand pivot	pivot   • Check for smooth operation.  • Lubricate if necessary.		
Fittings/fasteners	<ul> <li>Check all chassis fittings and fasteners.</li> <li>Tighten/Adjust if necessary.</li> </ul>	6-17, 8-7	

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ITEM ROUTINE		PAGE
Fuel tank	Check fuel level/fill with fuel as required.	6-19~6-20
Lights and signals	Check for proper operation.	6-18, 8-49~8-50

#### 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.

### **WARNING**

If any item in the PRE-OPERATION CHECK is not working properly, have it inspected and repaired before operating the motorcycle.

#### Brakes

- 1. Brake lever and brake pedal
  - Check for correct free play in the front brake lever and correct rear brake pedal height. Adjust if necessary. Make sure the brakes are working properly by checking at low speed shortly after starting out. (see page 8-23 for details)

### **WARNING**

A soft, spongy feeling in the brake lever (and/or brake pedal) 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 for immediate repairs. A soft, spongy feeling could indicate a hazardous condition in the brake system. 2. Brake fluid

Check the brake fluid level. Fill the master cylinder with brake fluid if necessary.

#### Recommended brake fluid: DOT 4

3. Check the disc pads. Refer to page 8-25.

#### NOTE:\_

When this brake service is necessary, consult a Yamaha dealer.

#### **Brake/Clutch fluid leakage**

Apply each brake and the clutch for a few minutes. Check to see if any brake fluid leaks out from the hose, joints, master cyl-inders, or plunger case.



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

### **A**WARNING

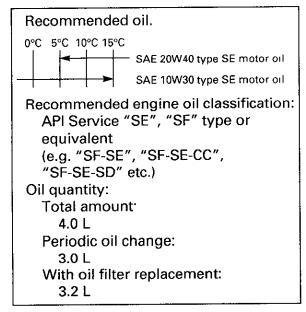
If brake fluid leakage is found, ask a Yamaha dealer for immediate repairs. Such leakage could indicate a hazardous condition.

#### Throttle grip

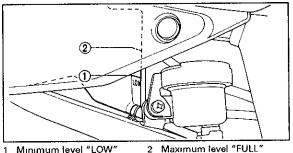
Turn the throttle grip to see if it operates properly, and check the free play. Make sure the grip returns by spring force when released. Ask a Yamaha dealer to make any necessary adjustments. (See page 8-21 for details)

#### **Engine oil**

Make sure the engine oil is at the specified level. Fill with oil as necessary (see page 8-8 for details).



### Coolant



Check the coolant level in the reservoir tank when the engine is cold. The coolant level will vary with engine temperature. The coolant level is satisfactory if it is between the minimum and maximum marks on the tank. If the coolant level is at or below the minimum mark, fill with tap water (soft water) to bring the level up to the maximum mark. Change the coolant every two years. (see page 8-13 for details)

### 

Do not remove the radiator cap when the engine is hot.



Hard water or salt water is harmful to the engine. You may use distilled water if you can't get soft water.

Reservoir tank capacity: 0.30 L From the minimum to maximum marks: 0.20 L

#### Chain

Check the general condition of the chain and the chain slack before every ride. Lubricate and adjust the chain as necessary. (See page 8-29 for details)

#### Tires (For YZF750R)

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

1. Tire air pressure

Always check and adjust the tire pressure before operating the motorcycle.

### **WARNING**

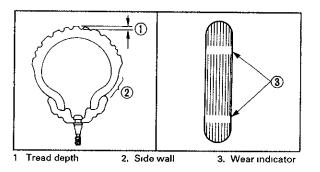
Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature. Tire inflation pressure must be adjusted according to total weight of cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model), and vehicle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

Basic weight. With oil and full fuel tank	221 kg	
Maximum load*	169 kg	
Cold tire pressure	Front	Rear
Up to 90 kg load*	225 kPa (2 25 kgf/cm <sup>2</sup> , 2 25 bar)	250 kPa (2.5 kgf/cm <sup>2</sup> , 2 5 bar)
90 kg load ~ maximum load*	250 kPa (2.5 kgf/cm <sup>2</sup> , 2.5 bar)	290 kPa (2 9 kgf/cm <sup>2</sup> , 2 9 bar)
High speed riding	250 kPa (2 5 kgf/cm <sup>2</sup> , 2 5 bar)	290 kPa (2 9 kgf/cm <sup>2</sup> , 2.9 bar)

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

### **WARNING**

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



#### 2. Tire inspection

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

### **WARNING**

It is dangerous to ride with a worn-out tire. When a tire tread begins to show lines, have a Yamaha dealer replace the tire immediately. Brakes, tires and related wheel parts replacement should be left to a Yamaha Service Technician.

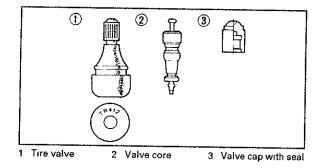
Minimum tire tread depth	10 mm
(front and rear)	

3. Tire information

This motorcycle is equipped with tubeless tires, tire valves and cast wheels.

### A WARNING

- After extensive tests, the tires mentioned below have been approved by Yamaha Motor Co., Ltd. for this model. No guarantee for handling characteristics can be given if tire combinations other than what is approved are used on this motorcycle. The front and rear tires should be of the same manufacture and design.
- The use of tire valves and valve cores other than listed below could cause tire deflation during extreme high speed riding. Always use genuine parts or their equivalent for replacement.
- Be sure to install the valve caps securely, as these are important to prevent air pressure leakage during extreme high speed riding.



#### FRONT

Manufacturer	Size	Туре
Michelin	120/70 ZR17	A89X
Bridgestone	120/70 ZR17	BT50F
Dunlop	120/70 ZR17	D202F

REAR

Manufacturer	Sıze	Туре
Michelin	180/55 ZR17	M89X
Bridgestone	180/55 ZR17	BT50R
Dunlop	180/55 ZR17	D202

	Туре	
Tire valve	TR412	
Valve core	#9000A (Genuine)	

### A WARNING

This motorcycle is fitted with super highspeed running tires. The following points must be observed in order for you to make fully effective use of these tires.

- 1. Never fail to use the specified tires in tire replacement. Other tires may have a danger of bursting at super high-speeds.
- 2. New tires have a relatively low grip on the road surface until they have been slightly worn. Therefore, approximately 100 km should be traveled at normal speed before any high-speed riding is done.
- 3. Before any high-speed runs, the tires should be warmed-up sufficiently.
- 4. Always inflate to the correct tire pressure according to the operating conditions.

6-11

#### Tires (For YZF750SP)

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

1. Tire air pressure

Always check and adjust the tire pressure before operating the motorcycle.

### A WARNING

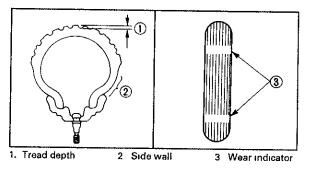
Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature. Tire inflation pressure must be adjusted according to total weight of cargo, rider, and accessories (fairing, saddlebags, etc. if approved for this model), and vehicle speed.

Basic weight. With oil and full fuel tank	218 kg	
Maximum load*	97 kg	
Cold tire pressure	Front	Rear
Up to maximum load*	225 kPa (2 25 kgf/cm <sup>2</sup> , 2 25 bar)	250 kPa (2 5 kgf/cm <sup>2</sup> , 2 5 bar)
High speed riding	250 kPa (2 5 kgf/cm <sup>2</sup> , 2 5 bar)	290 kPa (2 9 kgf/cm <sup>2</sup> , 2 9 bar)

\* Load is the total weight of cargo, rider, and accessories

## **WARNING**

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



#### 2. Tire inspection

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

## **WARNING**

It is dangerous to ride with a worn-out tire. When a tire tread begins to show lines, have a Yamaha dealer replace the tire immediately. Brakes, tires and related wheel parts replacement should be left to a Yamaha Service Technician.

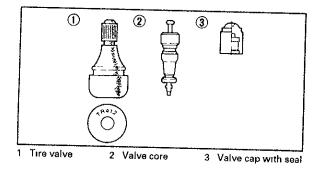
Minimum tire tread depth	10 mm
(front and rear)	

3. Tire information

This motorcycle is equipped with tubeless tires, tire valves and cast wheels.

## A WARNING

- After extensive tests, the tires mentioned below have been approved by Yamaha Motor Co., Ltd. for this model. No guarantee for handling characteristics can be given if tire combinations other than what is approved are used on this motorcycle. The front and rear tires should be of the same manufacture and design.
- The use of tire valves and valve cores other than listed below could cause tire deflation during extreme high speed riding. Always use genuine parts or their equivalent for replacement.
- Be sure to install the valve caps securely, as these are important to prevent air pressure leakage during extreme high speed riding.



#### FRONT

Manufacturer	Size	Type
Michelin	120/70 ZR17	TX11

#### REAR

Manufacturer	Size	Туре
Michelin	180/55 ZR17	TX23

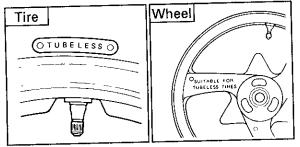
	Туре
Tire valve	TR412
Valve core	#9000A (Genuine)

## A WARNING

This motorcycle is fitted with super highspeed running tires. The following points must be observed in order for you to make fully effective use of these tires.

- 1. Never fail to use the specified tires in tire replacement. Other tires may have a danger of bursting at super high-speeds.
- 2. New tires have a relatively low grip on the road surface until they have been slightly worn. Therefore, approximately 100 km should be traveled at normal speed before any high-speed riding is done.
- 3. Before any high-speed runs, the tires should be warmed-up sufficiently.
- 4. Always inflate to the correct tire pressure according to the operating conditions.

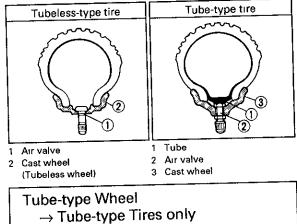
#### Tubeless tires and cast wheels



This motorcycle is equipped with cast wheels designed for either tube-type or tubeless tires. Tubeless tires are installed as standard equipment.

## **WARNING**

Do not attempt to use tubeless tires on a wheel designed for use only with tubetype tires. Tire failure and personal injury may result from sudden deflation.



Tubeless Wheel

 $\rightarrow$  Tube-type or Tubeless tires

## **A** WARNING

When using tube-type tires, be sure to install the proper tube also. To ensure maximum performance, long service, and safe operation, note the following:

 Always inspect the wheels before a ride. Check for cracks, bends, or warpage of the wheels. If any abnormal condition exists in a wheel, consult a Yamaha dealer.

Do not attempt even small repairs to the wheel. If a wheel is deformed or cracked, it must be replaced.

- Tires and wheels should be balanced whenever either one is changed or replaced. Failure to have a wheel balanced can result in poor performance, adverse handling characteristics, and shortened tire life.
- 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.

#### **Fittings/Fasteners**

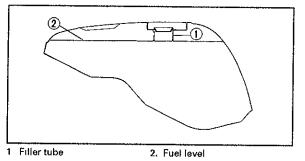
Always check the tightness of chassis fittings and fasteners before a ride. Use the chart on page 8-7 to find the correct torque.

#### Lights and signals

Check the headlight, flasher lights, taillight, brake light, meter lights, license light, and all the indicator lights to make sure they are in working condition.

#### Switches

Check the operation of the headlight switch, turn switch, brake light switch, horn switch, start switch, main switch, etc.



Make sure there is sufficient fuel in the tank.

## **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.

## CAUTION

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

Recommended fuel:
Regular gasoline
For Australia:
Unleaded fuel only
Fuel tank capacity:
Total:
19 L

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# OPERATION AND IMPORTANT RIDING POINTS

- ---

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## **WARNING**

- Before riding this motorcycle, become thoroughly familiar with all operating controls and their functions. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- 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 motorcycle in an area with adequate ventilation.
- 3. Before starting out, always be sure the sidestand is up. Failure to retract the sidestand completely can result in a serious accident when you try to turn a corner.

Starting and warming up a cold engine

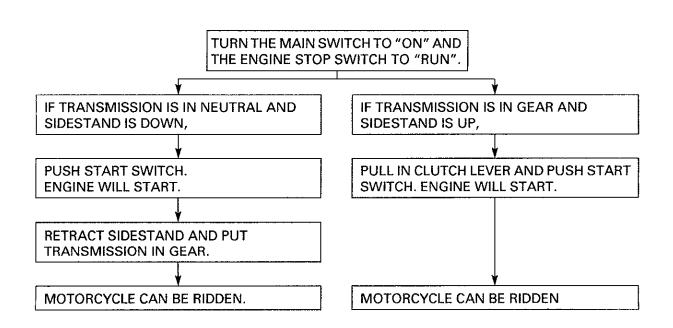
#### NOTE:

This motorcycle is equipped with an ignition circuit cut-off system.

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

## A WARNING

Before going through the following steps, check the function of the sidestand switch and clutch switch. (Refer to page 5-28.)



1. Turn the main switch to "ON" and the engine stop switch to "RUN".

## CAUTION:

If the fuel indicator light comes on, check the fuel level. If necessary, fill the tank with fuel.

2. Shift the transmission into neutral.

#### NOTE:\_

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

- 3. Turn on the starter "CHOKE" and completely close the throttle grip.
- 4. Start the engine by pushing the start switch.

#### NOTE:

If the engine fails to start, release the start 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.



The oil level indicator light and fuel indicator light should come on when the start switch is pushed and should go off when the start switch is released. If the oil level indicator light flickers or remains on, immediately stop the engine and check the engine oil level and for oil leakage. If necessary, fill the engine with oil and check to see that the oil level indicator light goes off. If not, consult a Yamaha dealer. 5. After starting the engine, move the starter "CHOKE" to the warming up position.

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

For maximum engine life, always warm up the engine before starting off. Never accelerate hard with a cold engine.

6. After warming up the engine, turn off the starter "CHOKE" completely.

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

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

#### Starting a warm engine

The starter "CHOKE" is not required when the engine is warm.

CAUTION

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

#### 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 the shift pedal is shown in the illustration. (Page 5-13) To shift into neutral, depress the shift pedal repeatedly until it reaches the end of its travel, then raise the pedal slightly.

## 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 1,000 km. For this reason we ask that you carefully read the following material. Because the engine is brand new, you must not put an excessive load on it for the first 1,000 km. 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. 1. 0 ~ 150 km :

Avoid operation above (A) r/min. Stop the engine and let it cool for 5 to 10 minutes after every hour of operation. Vary the speed of the motorcycle from time to time. Do not operate it at one set throttle position.

2. 150 ~ 500 km :

Avoid prolonged operation above (B) r/min. Rev the motorcycle freely through the gears, but do not use full throttle at any time.

3. 500 ~ 1,000 km :

Avoid prolonged full throttle operation. Avoid cruising speeds in excess of  $\bigcirc$  r/min.

## CAUTION

After 1,000 km of operation, be sure to replace the engine oil and oil filter.

4. 1,000 km and beyond: Full throttle can be used.

## CAUTION:

- Never let engine speeds enter the red zone.
- If any engine trouble should occur during the break-in period, consult a Yamaha dealer immediately.

	A	8	©
YZF750R	6,500	7,500	8,500
YZF750SP	5,500	6,500	7,500

#### Parking

- - - ----

When parking the motorcycle, stop the engine and remove the ignition key.

## **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 overturn.

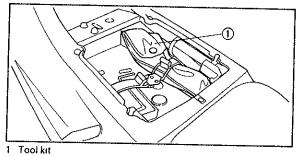
# PERIODIC MAINTENANCE AND MINOR REPAIR

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

## A 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.

#### NOTE:.

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

## **A**WARNING

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

## PERIODIC MAINTENANCE / LUBRICATION

-

		Break-in 1,000 km	EVERY	
ITEM	ROUTINE		6,000 km or 6 months	12,000 km or 12 months
Valve(s)*	Check valve clearance     Adjust if necessary	EVERY 4	EVERY 42,000 km or 42 months	
Spark plug(s)	Check condition     Clean or replace if necessary	0	0	0
Air filter	Clean.     Replace if necessary		0	0
Carburetor*	Check idle speed/synchronization/starter operation     Adjust if necessary	0	0	0
Fuel line*	<ul> <li>Check fuel hose and vacuum pipe for cracks or damage.</li> <li>Replace if necessary</li> </ul>		0	0
Engine oil	Replace (Warm engine before draining)	0	0	<u> </u>
Engine oil filter*	Replace.	0		0
Brake*	Check operation/fluid leakage/See NOTE (Page 8- 6).     Correct if necessary		0	0
Clutch*	Check operation/fluid leakage/See NOTE (Page 8- 6)     Correct if necessary		0	0
Swingarm pivot*	<ul> <li>Check swingarm assembly for looseness</li> <li>Correct if necessary</li> <li>Moderately repack every 24,000 km or 24 months.***</li> </ul>			0
Rear suspension link pivots*	<ul> <li>Check operation</li> <li>Apply grease lightly every 24,000 km or 24 months.***</li> </ul>			0

			EVERY	
ITEM	ITEM ROUTINE Break-in 1,000 km		6,000 km or 6 months	12,000 km or 12 months
Wheel*	Check balance/damage/runout.     Replace if necessary		0	0
Wheel bearings*	Check bearing assembly for looseness/damage     Replace if damaged.		0	0
Steering bearing*	<ul> <li>Check bearing assembly for looseness</li> <li>Correct if necessary.</li> <li>Moderately repack every 24,000 km or 24 months **</li> </ul>	0		0
Front forks*	Check operation/oil leakage     Repair if necessary		0	0
Rear shock absorber*	Check operation/oil leakage     Repair if necessary		0	0
Cooling system	<ul> <li>Check coolant leakage</li> <li>Repair if necessary.</li> <li>Replace coolant every 24,000 km or 24 months.</li> </ul>		0	0
Drive chain	<ul> <li>Check chain slack/alignment</li> <li>Adjust if necessary</li> <li>Clean and lube.</li> </ul>	EVERY 500 km		
Fittings/Fasteners*	Check all chassis fittings and fasteners     Correct if necessary	0	0	0
Sidestand*	Check operation.     Repair if necessary.	0	0	0

- - - --

		1	EVERY	
ITEM	ROUTINE	Break-in 1,000 km	6,000 km or 6 months	12,000 km or 12 months
Sidestand switch*	Check operation     Repair if necessary	0	0	0

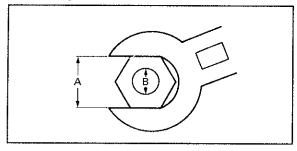
- \* It is recommended that these items be serviced by a Yamaha dealer
- \*\* Lithium soap base grease
- \*\*\* Molybdenum disulfide grease

#### NOTE:

Brake fluid replacement:

- 1. When disassembling the master cylinder, caliper cylinder or clutch release cylinder, replace the brake fluid. Normally check the brake fluid level and fill the master cylinder with fluid as required.
- 2. On the inner parts of the master cylinder, caliper cylinder and clutch release cylinder, replace the oil seals every two years.
- 3. Replace the brake and clutch hoses every four years, or if cracked or damaged.

#### **Torque specifications**

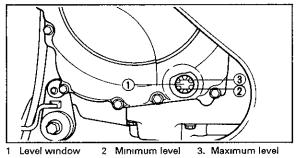


Use a torque wrench to tighten these items. It is recommended that these items be checked occasionally, especially before a long trip. Always check the tightness of these items whenever they are loosened for any reason.

A	В		neral torque ecifications	
(Nut)	(Bolt)	Nm	m∙kg	
10 mm	6 mm	6	0.6	
12 mm	8 mm	15	1.5	
14 mm	10 mm	30	30	
17 mm	12 mm	55	5.5	
19 mm	14 mm	85	8.5	
22 mm	16 mm	130	13	

ltem	Tor	que
	Nm	m∞kg
Spark plug	12	1.25
Engine oil drain plug	43	43
Oil filter	17	17
Coolant drain bolt	10	10
Front axle pinch bolt	23	23
Front wheel axle	72	7.2
Caliper bolt (Front)	35	35
Rear wheel axle nut	150	15
Caliper bolt (Rear)	35	35
Seat grip bolt	7	07

#### Engine oil



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

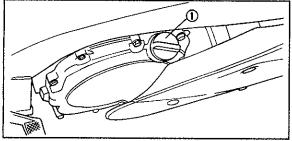
#### NOTE:

Be sure the motorcycle is positioned straight up when checking the oil level. A slight tilt toward the side can result in false readings. b. With the engine stopped, check the oil level through the level window located at the lower part of the right side crankcase cover.

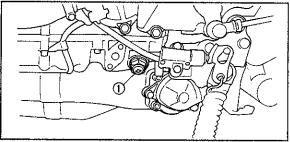
#### NOTE:

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

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

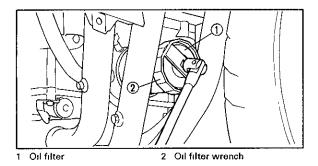


- 1 Oil filler cap
- 2. Engine oil and oil filter cartridge replacement
- a. Remove the lower cowling.
- b. Warm up the engine for several minutes.
- c. Stop the engine. Place an oil pan under the engine and remove the oil filler cap.



1 Engine oil drain plug

d. Remove the drain plug and drain the oil.



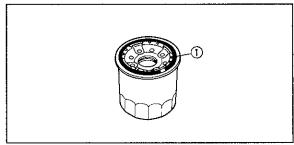
e. Remove the oil filter by using an oil filter wrench.

#### NOTE:

An oil filter wrench is available at a nearby Yamaha dealer.

f. Reinstall the drain plug and tighten it to the specified torque.

Tightening torque<sup>.</sup> Drain plug: 43 Nm (4,3 m·kg)

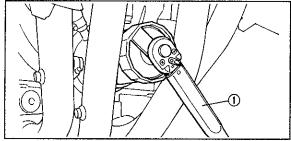


1 O-ring

g. Apply a light coat of engine oil to the O-ring of the new oil filter.

#### NOTE:

Make sure the O-ring is seated properly

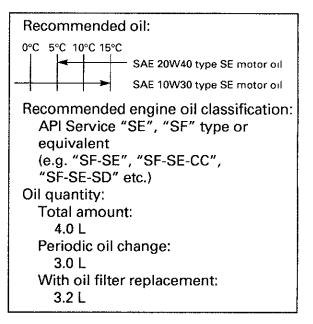


1 Torque wrench

h. Install the oil filter and tighten it to the specified torque with an oil filter wrench.

Tightening torque<sup>•</sup> Oil filter: 17 Nm (1.7 m·kg)

 Fill the engine with sufficient oil to reach the specified level. Install the oil filler cap and tighten it.



## CAUTION:

- Do not put in any chemical additives. Engine oil also lubricates the clutch and additives could cause clutch slippage.
- Be sure no foreign material enters the crankcase.
- j. Start the engine and warm it up for several minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.

k. After the engine is started, the oil level indicator light should go off if the oil is at the specified level.

## CAUTION:

If the indicator light flickers or remains on, immediately stop the engine and consult a Yamaha dealer.

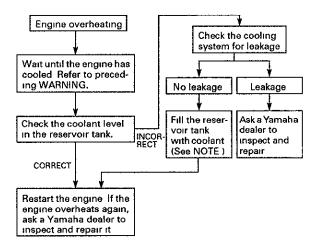
I. Install the lower cowling.

#### **Cooling system**

1. If your motorcycle overheats

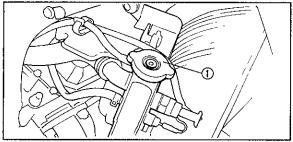
## **WARNING**

Do not remove the radiator cap when the engine and radiator are hot. Scalding hot fluid and steam may be blown out under pressure, which could cause serious injury. When the engine has cooled, open the radiator cap by the following procedure. Place a thick rag, like a towel, over the radiator cap, slowly rotate the cap counterclockwise to the detent. This procedure allows any residual pressure to escape. When the hissing sound has stopped, press down on the cap while turning counterclockwise and remove it. If overheating is detected, perform the following checks.



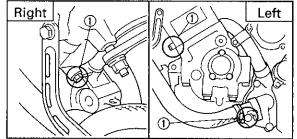
#### NOTE:

If it is difficult to get the recommended coolant, tap water can be temporarily used, provided that it is changed to the recommended coolant as soon as possible.



1 Radiator cap

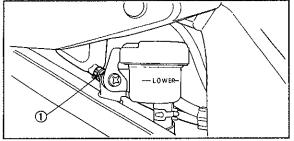
- 2. Changing the coolant
- a. Remove the seat (SP model)/seats (R model), lower cowling and side cowlings.
- b. Place a container under the engine.
- c. Remove the radiator cap.



1 Drain bolt (x 3)

- d. Remove the drain bolts.
- e. Disconnect the reservoir tank hose on the reservoir tank side and drain the reservoir tank of its coolant.
- f. Drain the coolant completely and thoroughly flush the cooling system with clean tap water.
- g. Tighten the drain bolts to the specified torque. If the gasket is damaged, replace it.

Tightening torque: Drain bolt: 10 Nm (1.0 m·kg)



Reservoir tank hose

- h. Reinstall the reservoir tank hose.
- i. Pour the recommended coolant into the radiator until it's full.

Recommended coolant<sup>-</sup>

High quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines.

Antifreeze and water mix ratio:

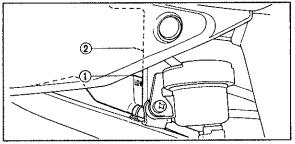
50%/50%

Total amount:

2.6 L

Reservoir tank capacity:

(From the minimum to maximum marks) 0.20 L



1. Minimum level "LOW" 2. Maximum level "FULL"

## CAUTION:

Hard water or salt water is harmful to the engine. You may use distilled water if you can't get soft water.

- j. Reinstall the radiator cap.
- k. Run the engine several minutes to recheck the coolant level in the radiator.
   If it is low, fill with coolant until it reaches the top of the radiator.
- I. Fill the reservoir tank with coolant up to the maximum mark.

8-15

#### Radiator fan

Operation

The electric fan operation is completely automatic. It is switched on or off according to the coolant temperature in the radiator.

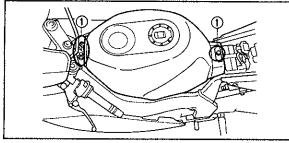
m. Reinstall the reservoir tank cap and check for coolant leakage.

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

If you find any leaks, ask a Yamaha dealer to inspect.

n. Reinstall the side cowlings, lower cowling and the seat (SP model)/seats (R model).

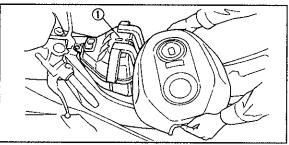
#### Air filter



1 Bolt (× 2)

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 seat (SP model)/seats (R model).
- 2. Remove the bolts holding the fuel tank.

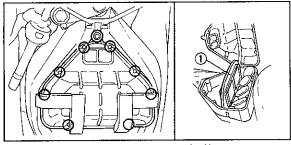


1 Air filter case

3. Lift the fuel tank upward and position it away from the air filter case. (Do not remove the fuel hoses.)

### **WARNING**

- Support the fuel tank carefully during this procedure.
- Do not tilt the fuel tank too much or pull it too hard because the fuel hose connections may become loose causing fuel leakage.



1 Air filter

- 4. Remove the screws holding the air filter case cover.
- 5. Pull out the air filter.
- Tap the air filter lightly to remove most of the dust and dirt. Blow out the remaining dirt with compressed air as shown. If the air filter is damaged, replace it.
- 7. Reinstall by reversing the removal procedure.

# 2 ST

## **WARNING**

- Before reinstallation, make sure that the fuel hoses are not damaged at all. If any damage is found, it may result in a fuel leak, so do not start the engine. Ask a Yamaha dealer for repairs.
- Always make sure that the fuel hoses are properly connected, in place, and not pinched.

## CAUTION:

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

#### **Carburetor adjustment**

The carburetors are important parts of the engine and require very sophisticated adjustment. Most adjustments should be left to a Yamaha dealer who has the professional knowledge and experience to do so. However, the idle speed may be adjusted by the owner as part of routine maintenance.

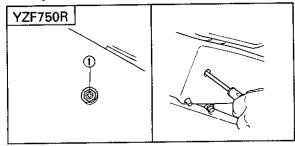
## CAUTION:

The carburetors were set at the Yamaha factory after many tests. If they are changed, poor engine performance and damage may result.

## CAUTION:

Be sure the air filter is installed with the mesh side facing backward.

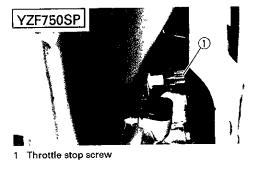
#### Idle speed adjustment



1 Throttle stop screw

- 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.
- 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.

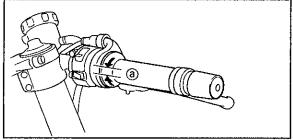
Standard idle speed: 1,150 ~ 1,250 r/min



#### NOTE:

If the specified idle speed cannot be obtained by performing the above adjustment, consult a Yamaha dealer.

#### Throttle cable adjustment



a Free play

#### NOTE:

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

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

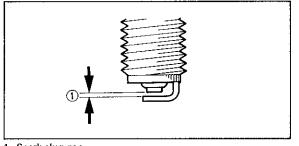
Free play:

3 ~ 7 mm

#### Valve clearance adjustment

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

#### Spark plug inspection



1 Spark plug gap

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.

Normally, all spark plugs from the same engine should have the same color on the white insulator around the center electrode. The ideal color at this point is a medium-to-light tan color for a motorcycle that is being ridden normally. If one spark plug shows a distinctly different color, there could be something wrong with the engine. Do not attempt to diagnose such problems yourself. Instead, take the motorcycle to a Yamaha dealer. You should periodically remove and inspect the spark plugs because heat and deposits will cause any spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Specified spark plug: CR9E (NGK) or U27ESR-N (NIPPONDENSO)

Before installing any spark plug, measure the electrode gap with a wire thickness gauge. Adjust the gap to specification

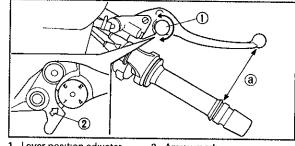
Spark plug gap: 0.7 ~ 0.8 mm When installing the spark plug, always clean the gasket surface and use a new gasket. Wipe off any grime from the threads and tighten the spark plug to the specified torque.

Tightening torque: Spark plug: 12.5 Nm (1.25 m·kg)

#### NOTE:\_

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

#### Front brake lever position adjustment



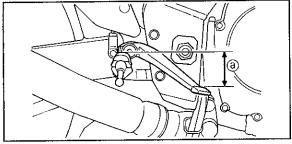
1. Lever position adjuster 2

a Lever distance

2 Arrow mark

Brake lever distance from the throttle grip can be adjusted. To adjust, turn the adjuster while pushing the lever forward and align the setting on the adjuster with the arrow mark.

#### Rear brake pedal height adjustment



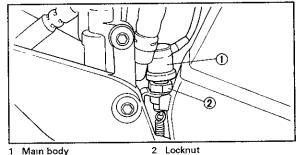
a Pedal height 57 mm

The top of the brake pedal should be positioned 57 mm below the top of the footrest. If not, ask a Yamaha dealer to adjust it.

### A WARNING

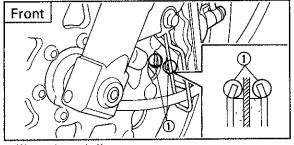
A soft or spongy feeling in the brake pedal can indicate the presence of air in the brake system. This air must be removed by bleeding the brake system before the motorcycle is operated. Air in the system will cause greatly diminished braking capability and can result in loss of control and an accident.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

#### Brake light switch adjustment



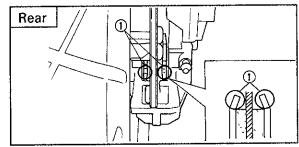
The brake light switch is operated by movement of the brake pedal. To adjust, hold the main body of the switch so it does not rotate and turn the adjusting nut. Proper adjustment is achieved when the brake light comes on just before the brake begins to take effect.

#### Checking the front and rear brake pads



1 Wear indicator (x 2)

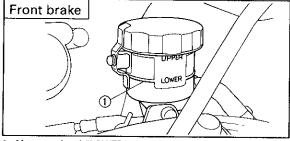
A wear indicator is provided on each brake. This indicator allows checking of brake pad wear without disassembling the brake.



1 Wear indicator (× 2)

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

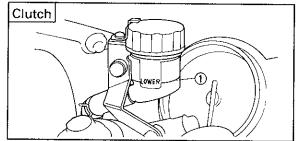
### Inspecting the brake fluid level



1 Minimum level "LOWER"

Insufficient brake fluid may let air enter the brake or clutch system, possibly causing them to become ineffective. Before riding, check that the brake fluid is above the minimum level and replenish when necessary Observe these precautions:

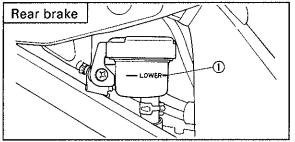
- 1. When checking the fluid level, make sure the top of the master cylinder is level by turning the handlebars.
- 2. Use only the designated quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake or clutch performance.



1 Minimum level "LOWER"

#### Recommended brake fluid: DOT 4

3. Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake or clutch performance.



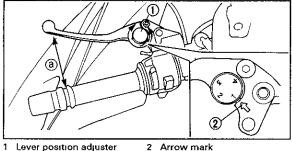
1 Minimum level "LOWER"

- 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 Yamaha service personnel.
- 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 lever position adjustment**



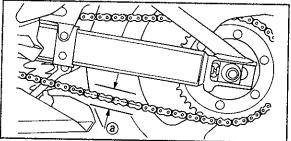
a Lever distance

Clutch lever distance from the handlebar grip can be adjusted. To adjust, turn the adjuster while pushing the lever forward and align the setting on the adjuster with the arrow mark

#### Clutch lever free play adjustment

This motorcycle has a hydraulic clutch. There are no adjustments to perform but the clutch system must be inspected periodically for proper fluid level and leakage. If the control lever free play becomes excessive and the motorcycle creeps or stalls when shifted into gear, or if the clutch slips, causing acceleration to lag behind engine speed, there is probably air in the clutch system and it must be bled out. Ask a Yamaha dealer to do this service.

#### Drive chain slack check



a. 20~35 mm (For YZF750R)

a. 35~45 mm (For YZF750SP)

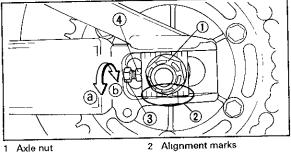
#### NOTE:\_

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

To check the chain slack the 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 (A) mm. If the slack exceeds (B) mm, adjust.

	Ø	®
YZF750R	20 ~ 35	35
YZF750SP	35 ~ 45	45

#### Drive chain slack adjustment



3 Locknut

- 2 Alignment mark 4 Adjusting bolt
- 1. Loosen the axle nut.
- Loosen the locknuts on each side. To tighten the chain, turn the chain adjusting bolts in direction (a). To loosen the chain, turn the adjusting bolts in direction (b) and push the wheel forward. Turn each adjusting bolt exactly the same amount to maintain correct axle alignment.

#### NOTE:\_

There are marks on each adjusting block and an alignment mark on each side of the swingarm. Make sure the left and right adjusting blocks are positioned the same by counting the number of marks from the rear of the adjusting block to the alignment mark.

# CAUTION

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

 After adjusting, tighten the locknuts. Then tighten the axle nut to the specified torque.

Tightening torque: Axle nut: 150 Nm (15 m·kg)

#### **Drive chain lubrication**

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

**Cable inspection and lubrication** 

### **WARNING**

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

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

Recommended lubricant: SAE 10W30 motor oil

#### Throttle cable and grip lubrication

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

#### **Brake and shift pedal lubrication** Lubricate the pivoting parts.

Recommended lubricant: SAE 10W30 motor oil **Brake and clutch lever lubrication** Lubricate the pivoting parts.

Recommended lubricant: SAE 10W30 motor oil

#### **Sidestand lubrication**

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

Recommended lubricant: SAE 10W30 motor oil

### A WARNING

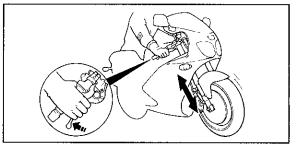
If the sidestand does not move smoothly, consult a Yamaha dealer.

# Rear suspension lubrication

Lubricate the pivoting parts.

Recommended lubricant: Molybdenum disulfide grease

### Front fork inspection



# **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.

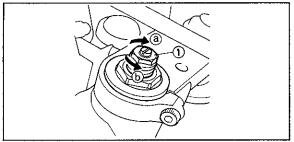
- 2. Operation check Place the motorcycle on a level place.
- a. Hold the motorcycle in an upright position and apply the front brake.

b. Push down hard on the handlebars several times and check if the fork rebounds smoothly.



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

#### Front fork adjustment



1 Spring preload adjuster

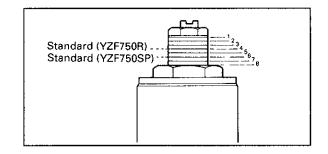
b Decrease

This front fork is equipped with a spring preload, rebound and compression damping force adjuster.

### A WARNING

Always adjust each fork leg to the same setting. Uneven adjustment can cause poor handling and loss of stability.

1. Adjust spring preload as follows. Turn adjuster in direction (a) to increase spring preload and in direction (b) to decrease spring preload.



# CAUTION

The grooves are provided to show the adjustment level. Always keep the adjustment level equal on both fork legs.

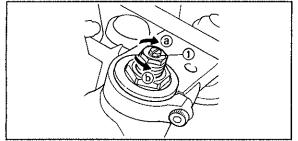
#### For YZF750R

	Hard		Stan- dard	Soft				
Adjusting position	1	2	3	4	5	6	7	8

#### For YZF750SP

			Hard			Stan- dard	So	oft
Adjusting position	1	2	3	4	5	6	7	8

a increase



1 Rebound damping force adjuster

a Increase

b. Decrease

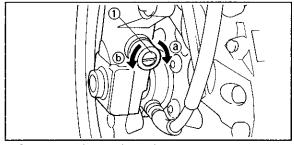
 Adjust rebound damping force as follows. Turn adjuster in direction (a) to increase rebound damping force and in direction (b) to decrease rebound damping force.

Standard	6 clicks out* (For YZF750R)
	5 clicks out* (For YZF750SP)
Minimum	12 clicks out*
Maximum	1 click out*

\* - From the fully turned in position



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



1 Compression damping force adjuster a Increase b Decrease

 Adjust compression damping force as follows. Turn adjuster in direction (a) to increase compression damping force and in direction (b) to decrease compression damping force.

Standard	7 clicks out* (For YZF750R)
	6 clicks out* (For YZF750SP)
Minimum	10 clicks out*
Maximum	1 click out*

\* From the fully turned in position



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

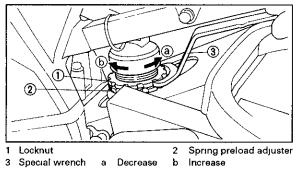
#### **Rear shock absorber**

## **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.

# Rear shock absorber adjustment (For YZF750R)



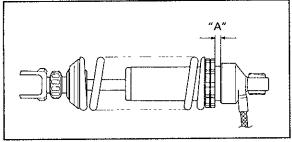
This shock absorber is equipped with a spring preload, rebound and compression damping force adjuster.

# CAUTION

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

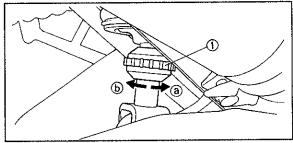
- 1. Adjust spring preload as follows.
- a. Loosen the locknut.

b. Turn adjuster in direction (b) to increase spring preload and in direction
(a) to decrease spring preload. The spring preload is determined by the spring set length. Shortening spring set length increases spring preload, lengthening spring set length decreases spring preload.



A Spring set length

F	Aeasurement "A"
	Standard length:
	11.5 mm
	Minımum length:
	8.5 mm SOFT
	Maximum length:
	17.5 mm HARD



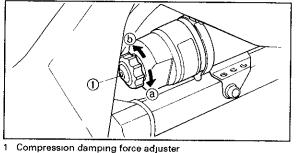
Rebound damping force adjuster a. Increase

b Decrease

2. Adjust rebound damping force as follows. Turn adjuster in direction (a) to increase rebound damping force and in direction (b) to decrease rebound damping force.

Standard	10 clicks out*
Minimum (soft).	22 clicks out*
Maximum (hard)	6 clicks out*

\* : From the fully turned in position



a Increase

- b Decrease
- Adjust compression damping force as follows. Turn adjuster in direction (a) to increase compression damping force and in direction (b) to decrease compression damping force.

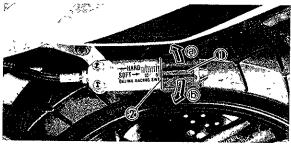
Standard	10 clicks out*
Minimum (soft)	20 clicks out*
Maximum (hard)	1 clicks out*

\* From the fully turned in position

#### NOTE:

Ask a Yamaha dealer to make this adjustment.

# Rear shock absorber adjustment (For YZF750SP)



1 Spring preload adjuster 2 Align adjuster with preload mark a. Increase b Decrease

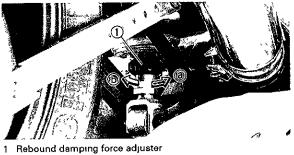
This shock absorber is equipped with a spring preload, rebound and compression damping force adjuster.

# CAUTION

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

 Adjust spring preload as follows. Turn adjuster in direction (a) to increase spring preload and in direction (b) to decrease spring preload.

	Soft	Stan- dard	Hard
Adjusting position	0 ~ 2	3	4 ~ 12

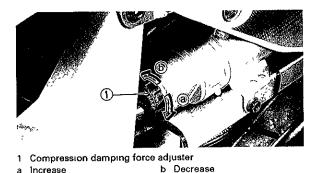


1 Rebound damping force adjuster a Increase b Decrease

2 Adjust rebound damping force as follows. Turn adjuster in direction (a) to increase rebound damping force and in direction (b) to decrease rebound damping force.

Standard.	10 clicks out*
Minimum (soft)	22 clicks out*
Maximum (hard)	1 click out*

From the fully turned in position



 Adjust compression damping force as follows. Turn adjuster in direction (a) to increase compression damping force and in direction (b) to decrease compression damping force.

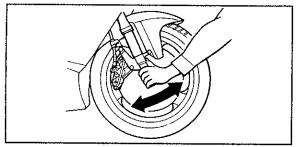
Standard.	10 clicks out*
Minimum (soft)	20 clicks out*
Maximum (hard)	1 click out*

\* From the fully turned in position

#### NOTE:-

Ask a Yamaha dealer to make this adjustment.

#### **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.

### A WARNING

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

#### 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.

#### Battery

This motorcycle is equipped with a sealedtype battery. Therefore it is not necessary to check the electrolyte or fill the battery with distilled water.

If the battery seems to have discharged, consult a Yamaha dealer.

# CAUTION:

Do not try to remove the sealing caps of the battery cells. You may damage the battery.

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

KEEP OUT OF REACH OF CHILDREN.

#### Storage

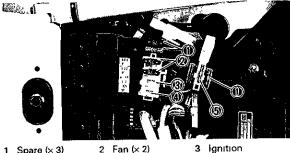
 When the motorcycle is not used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.

CAUTION

A special battery charger (constant voltage/ampere or constant voltage) is required for recharging the sealed type battery. Using a conventional battery charger may shorten the battery life.

2. Always make sure the connections are correct when putting the battery back in the motorcycle.

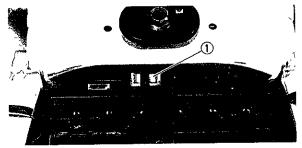
#### **Fuse replacement**



#### 1 Spare (× 3) 4 Headlight

2 Fan (×2) 5 Signal

- 1. The fuse boxes are located under the seat (SP model)/seats (R model).
- If any fuse is blown, turn off the main switch and the switch of the circuit in question. Install a new fuse of specified amperage. Turn on the switches and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer.



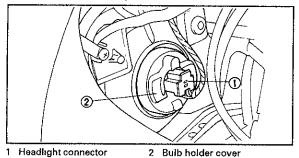
1 Main fuse



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.

	i and in the second
Specified fuse:	;
Main:	30 A
Head:	20 A
Signal:	15 A
Fan:	7.5 A × 2
Ignition:	20 A

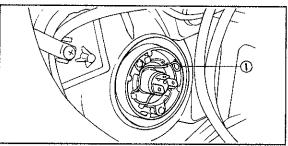
#### Headlight bulb replacement



This motorcycle is equipped with a quartz bulb headlight.

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

1. Remove the headlight connectors and the bulb holder cover.



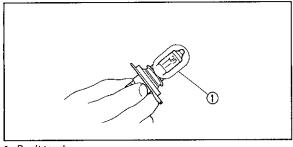
1 Bulb holder

2. Unhook the bulb holder and remove the defective bulb.

### **WARNING**

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

3. Put a new bulb into position and secure it in place with the bulb holder.



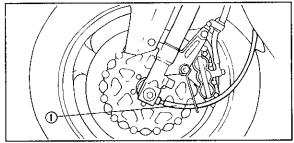
1 Don't touch

CAUTION:

Avoid touching the glass part of the bulb. Keep it free from oil; otherwise, the transparency of the glass, life of the bulb, and illuminous flux will be adversely affected. If oil gets on the bulb, thoroughly clean it with a cloth moistened with alcohol or lacquer thinner.

 Install the bulb holder cover and reconnect the headlight connectors.
 If the headlight beam adjustment is necessary, ask a Yamaha dealer to make adjustment.

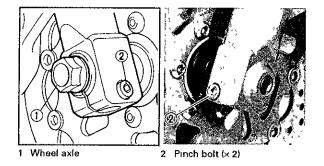
#### Front wheel removal



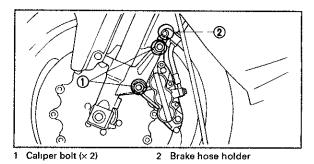
1 Speedometer cable

## **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 lower cowling
- 2. Remove the speedometer cable from the front wheel side.



- 3. Loosen the pinch bolts, wheel axle and caliper bolts.
- 4. Elevate the front wheel by placing a suitable stand under the engine.



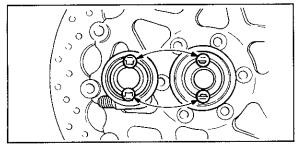
5. Remove the brake hose holders and calipers.

#### NOTE:\_

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

6. Remove the wheel axle. Make sure the motorcycle is properly supported.

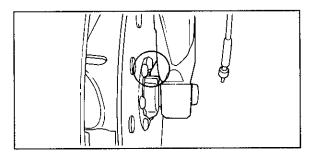
#### Front wheel installation



When installing the front wheel, reverse the removal procedure.

Pay attention to the following points

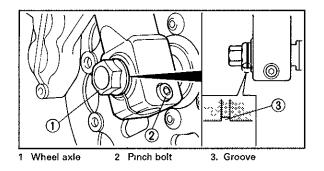
- Make sure the wheel hub and the speedometer gear unit housing are installed with the projections meshed into the slots.
- 2. Make sure there is enough gap between the brake pads before setting the calipers on the discs.
- 3. Make sure the slot in the speedometer gear unit housing fits over the stopper on the front fork outer tube.



4. Tighten the following parts to the specified torque.

Tightening torque: Wheel axle: 72 Nm (7 2 m⋅kg) Caliper bolt: 35 Nm (3.5 m⋅kg)

5 Before tightening the pinch bolts, push down hard on the handlebars several times to check for proper fork operation.



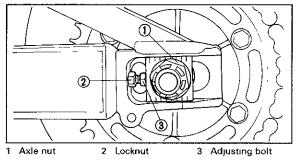
6. Tighten the pinch bolts to the specified torque.

Tightening torque: Pinch bolt: 23 Nm (2.3 m·kg)

#### NOTE:\_

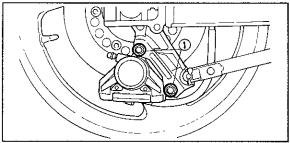
After tightening the pinch bolt, wipe the end of the axle and make sure that the groove is visible. If not, loosen the pinch bolt and axle, and repeat the installation procedure.

#### **Rear wheel removal**



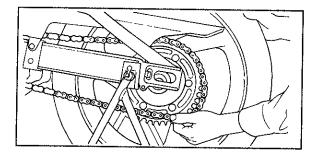
### **WARNING**

- 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. Loosen the axle nut and caliper bolts

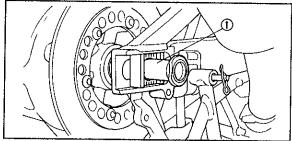


1 Caliper bolt (x 2)

- 2. Elevate the rear wheel by placing a suitable stand under the swingarm.
- 3. Remove the axle nut and caliper.
- 4. Loosen the locknuts on each side of the swingarm.



- 5. Turn the chain adjusting bolts fully inward.
- 6. Push the wheel forward and remove the drive chain.



1. Wheel axle

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

#### NOTE:\_

- Do not depress the brake pedal when the disc and caliper are separated.
- You do not have to disassemble the chain in order to remove or install the rear wheel.

#### **Rear wheel installation**

When installing the rear wheel, reverse the removal procedure.

Pay attention to the following points:

- Make sure there is enough gap between the brake pads before installing the caliper onto the brake disc.
- 2. Adjust the drive chain.
- 3. Tighten the following parts to the specified torque.

Tightening torque. Axle nut: 150 Nm (15 m·kg) Caliper bolt: 35 Nm (3.5 m·kg)

#### Troubleshooting

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

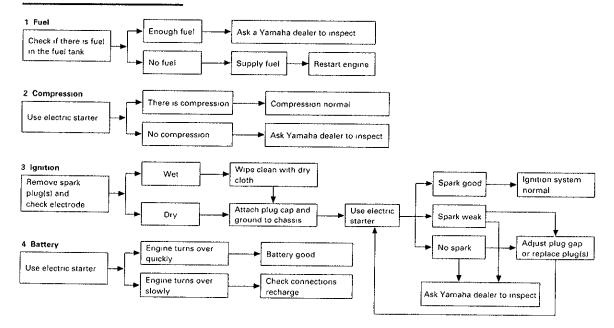
Any problem in the fuel, compression, or ignition systems can cause poor starting and loss of power. The troubleshooting chart describes a quick, easy procedure for making checks.

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**

#### **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<sup>.</sup>
- 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 plugs 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.
- Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job



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.

- 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. Windscreen cleaning



Avoid using any alkaline or strong acid cleaner, gasoline, brake fluid, or any other solvent.

Clean the windscreen with a cloth or sponge dampened with a neutral detergent, and after cleaning, thoroughly wash it off with water. Some cleaning compounds for plastics may leave scratches on surfaces of the windscreen. Before using them, make a test by polishing an area which does not affect your visibility.

8. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.

 Automotive-type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleanerwaxes. Many contain abrasives which may mar the paint or protective finish on the fuel tank and side covers. When finished, start the engine and let it idle for several minutes.

### **B. STORAGE**

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

- 1. Drain the fuel tank, fuel lines and carburetor float bowls.
- 2. Remove the empty fuel tank, pour a cup of SAE 10W30 or 20W40 motor oil in the tank, shake the tank to coat the inner surfaces thoroughly and drain off the excess oil. Reinstall the tank.
- 3. Remove each spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in each spark plug hole and reinstall the spark plugs. Turn the engine over several times (ground spark plug leads) to coat the cylinder walls with oil.

### A WARNING

When using the starter motor to crank the engine, remove the spark plug wires, and ground them to prevent sparking.

- 4. Clean the chain and lubricate it (refer to "Drive chain lubrication").
- 5. Lubricate all control cables.
- 6. Block up the frame to raise both wheels off the ground.
- 7. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
- If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.

 Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C or more than 30°C).

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

Make any necessary repairs before storing the motorcycle.

# **SPECIFICATIONS**

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Model	YZF750R/SP		
Dimensions			
Overall length	2,070 mm		
Overall width	, 785 mm		
Overall height	YZF750R: 1,165 mm		
-	YZF750SP 1,145 mm		
Seat height	785 mm		
Wheelbase	1,420 mm		
Minimum ground clearance	140 mm		
Minimum turning radius	3,200 mm		
Basic weight			
With oil and full fuel tank	YZF750R 221 kg		
	YZF750SP: 218 kg		
Engine			
Engine type	Liquid-cooled 4-stroke, DOHC		
Cylinder arrangement	Forward-inclined parallel 4-cylinder		
Displacement	749 cm <sup>3</sup>		
Bore × stroke	72 × 46 mm		
Compression ratio	11 5.1		
Starting system	Electric starter		
Lubrication system:	Wet sump		

Model	YZF750R/SP		
Oil type or grade <sup>.</sup> Engine oil			
	SAE20W40 type SE motor oil (At 5°C or higher) SAE10W30 type SE motor oil (At 15°C or lower)		
Oil capacity <sup>.</sup>			
Engine oil			
Periodic oil change	3.0 L		
With oil filter replacement	3.2 L		
Total amount	4.0 L		
Radiator capacity (including all routes):	2.6 L		
Air filter	Dry type element		
Fuel:			
Туре	Regular gasoline		
	For Australia: Unleaded fuel only		
Fuel tank capacity	19 L		
Carburetor:			
Type (Manufacturer)/quantity	YZF750R: BDST38 (MIKUNI)/4		
	YZF750SP: FCRD39 (KEIHIN)/4		

Model		YZF750R/SP			
Spark plug			1999 - 1999 - 1 - 1999 - 1 - 1999 - 1 - 1		
Туре		CR9E/U27ESR-N			
Manufacturer		NGK/NIPPONDENSO			
Spark plug gap		0 7 ~ 0.8 mm			
Clutch type		Wet, multiple-disc			
Transmission:					
Primary reduction system		Spur gear	Spur gear		
Primary reduction ratio		91/48 (1.896)	91/48 (1.896)		
Secondary reduction system		Chain drive			
Secondary reduction ratio		YZF750R: 43/16 (2 688)			
		YZF750SP 39/16 (2 438)			
Transmission type		Constant mesh 6-speed			
Operation		Left foot operation			
Gear ratio		YZF750R	YZF750SP		
	1st	36/14 (2.571)	32/13 (2 462)		
	2nd	33/17 (1.941)	33/17 (1 941)		
	3rd	28/18 (1.556)	31/19 (1.632)		
	4th	26/19 (1.368)	33/23 (1.435)		
	5th	28/23 (1.217)	26/20 (1 300)		
<del>6</del> th		26/24 (1.083)	25/21 (1.190)		

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Model		YZF750R/SP	
Chassis:			
Frame type		Diamond	
Caster angle		24°	
Trail		108 mm	
Tire'			
Туре		Tubeless	
Size	front	120/70 ZR17	
	rear	180/55 ZR17	
Brake:			
Front brake	type	Dual disc brake	
	operation	Right hand operation	
Rear brake	type	Single disc brake	
	operation	Right foot operation	
Suspension:			
Front suspension		Telescopic fork	
Rear suspension		Swingarm (link suspension)	
Shock absorber:			
Front shock absorber		Coil spring / Oil damper	
Rear shock absorber		Coil-gas spring / Oil damper	
Wheel travel:			
Front wheel travel		120 mm	
Rear wheel travel		130 mm	

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Model	YZF750R/SP		
Electrical.			
Ignition system	T.C I (Digital)		
Generator system	A C generator		
Battery type	YTX12-BS/GTX12-BS		
Battery capacity	12 V 10 AH		
Headlight type:	Quartz bulb (Halogen)		
Bulb wattage × quantity			
Headlight	12 V 35 W / 35 W × 2		
Tail / brake light	12 V 5 W / 21 W × 2		
Flasher light	12 V 21 W × 4		
License light	12 V 5 W × 1		
Meter light	12 V 1.7 W × 4		
Neutral indicator light	12 V 3 4 W × 1		
High beam indicator light	12 V 3 4 W × 1		
Oil level indicator light	12 V 3.4 W × 1		
Turn indicator light	12 V 3.4 W × 1		
Fuel indicator light	12 V 3.4 W × 1		

### HOW TO USE THE CONVERSION TABLE

All specification data in this manual are listed in SI and METRIC UNITS. Use this table to convert METRIC unit data to IMPERIAL unit data.

#### Ex.

METRIC		MULTIPLIER		IMPERIAL
**mm	×	0.03937	=	**in
2 mm	x	0.03937	=	0.08 in

### CONVERSION TABLE

METRIC TO IMPERIAL			
	Metric unit	Multiplier	Imperial unit
Torque	m kg m kg cm⋅kg cm⋅kg	7 233 86.794 0 0723 0 8679	ft lb in lb ft lb in·lb
Weight	kg g	2 205 0.03527	lb oz
Speed	km/hr	0 6214	mph
Distance	km m m cm mm	0 6214 3.281 1 094 0 3937 0 03937	mi ft yd in in
Volume / Capacity	cc (cm <sup>3</sup> ) cc (cm <sup>3</sup> ) lt (liter) lt (liter)	0.03527 0 06102 0 8799 0 219 <del>9</del>	oz (IMP liq ) cu-in qt (IMP liq ) gal (IMP liq )
Misc	kg/mm kg/cm <sup>2</sup> Centigrade (°C)	55 997 14 2234 9/5 + 32	lb/in psi (lb/in <sup>2</sup> ) Fahrenheit (°F)

## NOISE REGULATION (FOR Australia)

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# "TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED"

Owners are warned that the law may prohibit:

- (a) 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; and
- (b) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

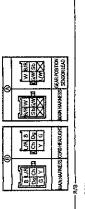


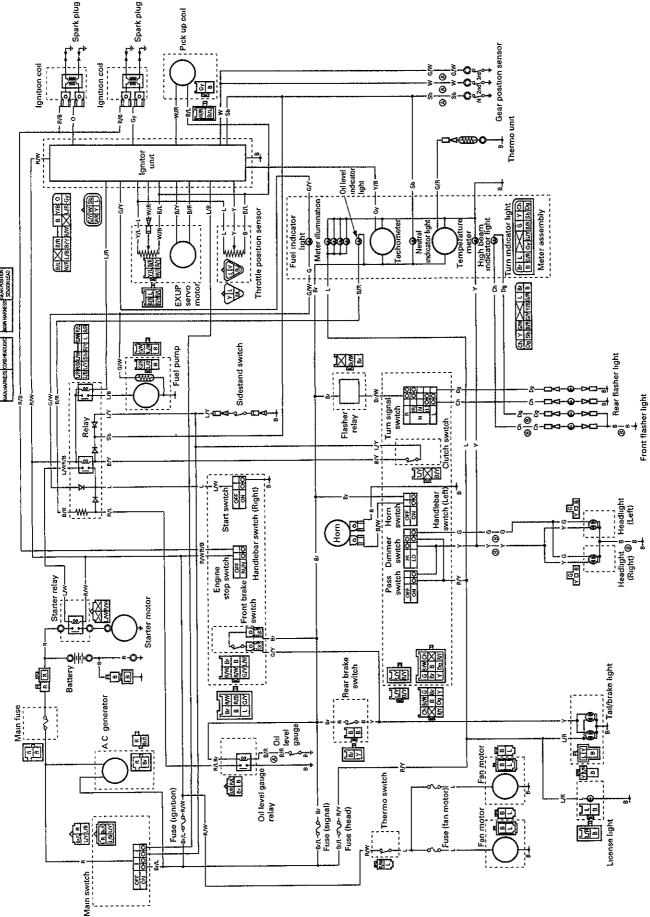
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WIRING DIAGRAM





R/W . ..... Red/White Br/L ... Brown/Blue Br/W ... . Brown/White W/R . .. White/Red G/R ...... Green/Red G/W . .... Green/White Y/B ...... Yellow/Black Y/L ..... Yellow/Blue R/B .... Red/Black R/L . ... Red/Black R/Y ..... Red/Black ... Blue/Red ... Blue/White . Green/Yellow Black/Red Black/White Blue/Black Blue/Yellow BB/R ... BB/W ... L/B ... L/B ... L/R ... C/M ... G/V ... Ch..... Chocolate Gy.... Gray Sb..... Skyblue Dg.... Dark green. W.... White B/L... Black/Blue B/Y.... Black/Yellow B ... Black L. .... Blue G. ... Green Y. ... Yellow R. .. Red O .... Orange Br..... Brown COLOR CODE

Front flasher light