



OWNER'S MANUAL
Divercion
900
XJ900S
4KM-28199-E5

Welcome to the Yamaha world of motorcycling!

As the owner of a XJ900S, you are benefiting from Yamaha's vast experience in and newest technology for the design and the manufacture of high-quality products, which have earned Yamaha a reputation for dependability.

Please take the time to read this manual thoroughly, so as to enjoy all your XJ900S's advantages. The owner's manual does not only instruct you in how to operate, inspect and maintain your motorcycle, but also in how to safeguard yourself and others from trouble and injury.

In addition, the many tips given in this manual will help to keep your motorcycle in the best possible condition. If you have any further questions, do not hesitate to contact your Yamaha dealer.

The Yamaha team wishes you many safe and pleasant rides. So, remember to put safety first!

IMPORTANT MANUAL INFORMATION

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



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



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

CAUTION:

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

NOTE:

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

NOTE:

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

IMPORTANT MANUAL INFORMATION

EW000002



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

IMPORTANT MANUAL INFORMATION

EAU00008

**XJ900S
OWNER'S MANUAL
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GIVE SAFETY THE RIGHT OF WAY

GIVE SAFETY THE RIGHT OF WAY 1-1



GIVE SAFETY THE RIGHT OF WAY

EAU00021

Motorcycles are fascinating vehicles, which can give you an unsurpassed feeling of power and freedom. However, they also impose certain limits, which you must accept; even the best motorcycle does not ignore the laws of physics.

Regular care and maintenance are essential for preserving your motorcycle's value and operating condition. Moreover, what is true for the motorcycle is also true for the rider: good performance depends on being in good shape. Riding under the influence of medication, drugs and alcohol is, of course, out of the question. Motorcycle riders - more than car drivers - must always be at their mental and physical best. Under the influence of even small amounts of alcohol, there is a tendency to take dangerous risks.

Protective clothing is as essential for the motorcycle rider as seat belts are for car drivers and passengers. Always wear a complete motorcycle suit (whether made of leather or tear-resistant synthetic materials with protectors), sturdy boots, motorcycle gloves and a properly fitting helmet. Optimum protective wear, however, should not encourage carelessness. Though full-coverage helmets and suits, in particular, create an illusion of total safety and protection, motorcyclists will always be vulnerable. Riders who lack critical self-control run the risk of going too fast and are apt to take chances. This is even more dangerous in wet weather. The good motorcyclist rides safely, predictably and defensively - avoiding all dangers, including those caused by others.

Enjoy your ride!

DESCRIPTION

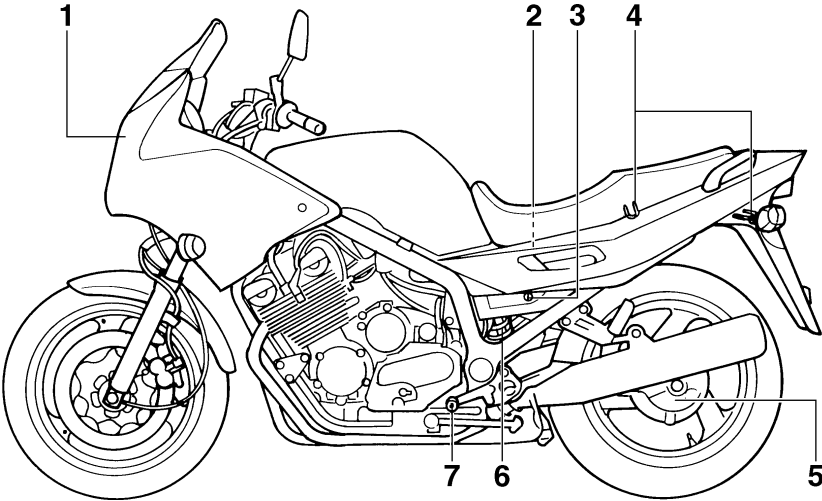
Left view 2-1

Right view 2-2

Controls/Instruments 2-3

DESCRIPTION

Left view



1. Headlight
2. Helmet holder
3. Seat lock
4. Luggage strap hook

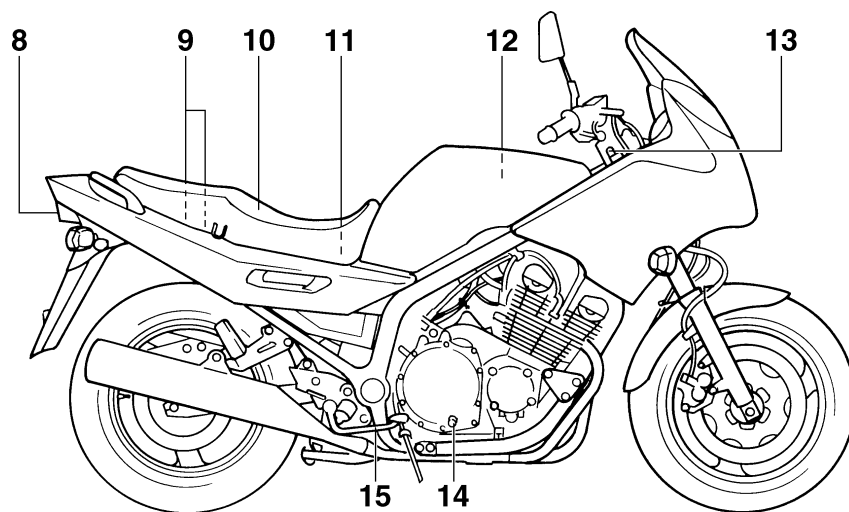
(page 6-26)
(page 3-15)
(page 3-15)

5. Final gear case
6. Rear shock absorber spring
preload adjusting ring
7. Shift pedal

(page 3-17)
(page 3-11)

DESCRIPTION

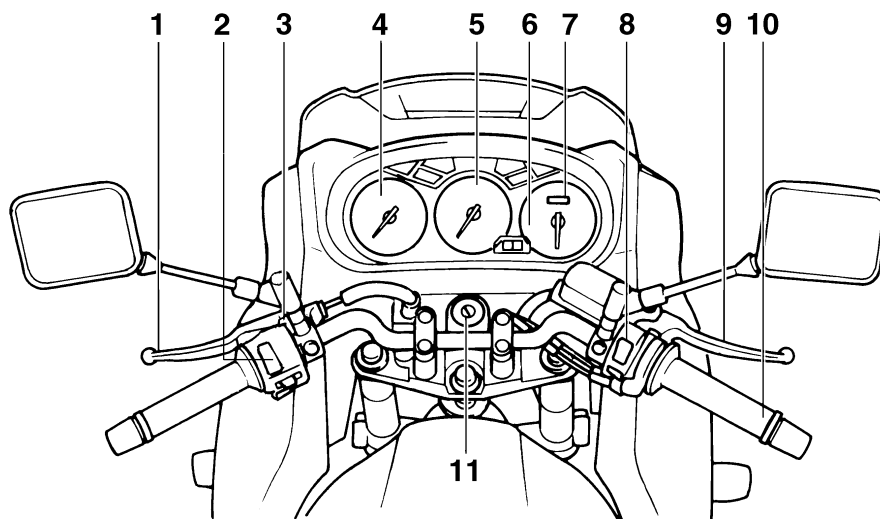
Right view



8. Tail/brake light	(page 6-19)	13. Front fork spring preload adjusting bolt	(page 3-16)
9. Fuse boxes	(page 6-25)	14. Engine oil level window	(page 6-8)
10. Seat	(page 3-15)	15. Rear brake pedal	(page 3-11)
11. Tool kit	(page 6-1)		
12. Air filter	(page 6-11)		

DESCRIPTION

Controls/Instruments



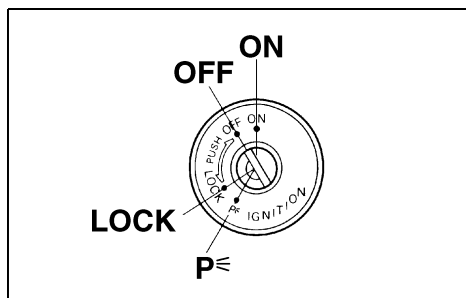
- | | | | |
|----------------------------|-------------|-------------------------------|-------------|
| 1. Clutch lever | (page 3-10) | 7. Digital clock | (page 3-8) |
| 2. Left handlebar switches | (page 3-9) | 8. Right handlebar switches | (page 3-10) |
| 3. Starter (choke) “ ” | (page 3-14) | 9. Front brake lever | (page 3-11) |
| 4. Speedometer | (page 3-6) | 10. Throttle grip | (page 6-14) |
| 5. Tachometer | (page 3-6) | 11. Main switch/steering lock | (page 3-1) |
| 6. Fuel gauge | (page 3-8) | | |

INSTRUMENT AND CONTROL FUNCTIONS

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Indicator lights	3-3	Rear brake pedal.....	3-11
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INSTRUMENT AND CONTROL FUNCTIONS

EAU00027



EAU00029*

Main switch/steering lock

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

ON

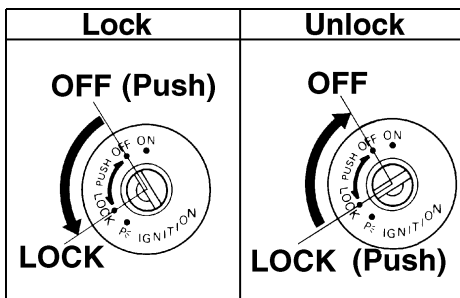
Electrical circuits are switched on. The engine can be started. The key cannot be removed in this position.

EAU00036

OFF

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

EAU00038



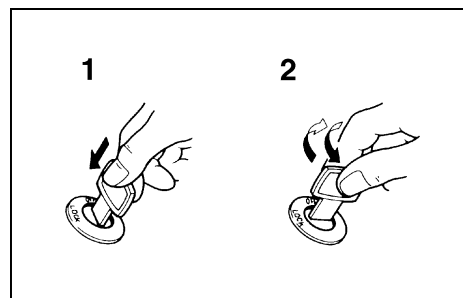
EAU00040

LOCK

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

To lock the steering, turn the handlebars all the way to the left. 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.



1. Push
2. Turn

EW000016

WARNING

Never turn the key to "OFF" or "LOCK" when the motorcycle is moving. The electrical circuits will be switched off which may result in loss of control or an accident. Be sure the motorcycle is stopped before turning the key to "OFF" or "LOCK".

INSTRUMENT AND CONTROL FUNCTIONS

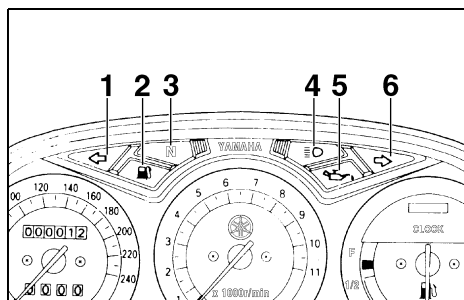
EAU01590

P⌘ (Parking)

The steering is locked in this position, and the taillight and auxiliary light come on but all other circuits are off. The key can be removed in this position.

To use the parking position, first lock the steering, then turn the key to “P⌘”. Do not use this position for an extended length of time as the battery may discharge.

INSTRUMENT AND CONTROL FUNCTIONS



1. Left turn indicator light “”
2. Fuel indicator light “”
3. Neutral indicator light “**N**”
4. High beam indicator light “”
5. Oil level indicator light “”
6. Right turn indicator light “”

Indicator lights

Turn indicator lights “” / “”

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

Fuel indicator light “”

When the fuel level drops below approximately 5 L, this light will come on. When this light comes on, fill the tank at the first opportunity. This light circuit can be checked by the procedure on page 3-5.

Neutral indicator light “**N**”

This indicator comes on when the transmission is in neutral.

High beam indicator light “”

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

Oil level indicator light “”

This indicator comes on when the oil level is low. This light circuit can be checked by the procedure on page 3-4.

CAUTION:

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

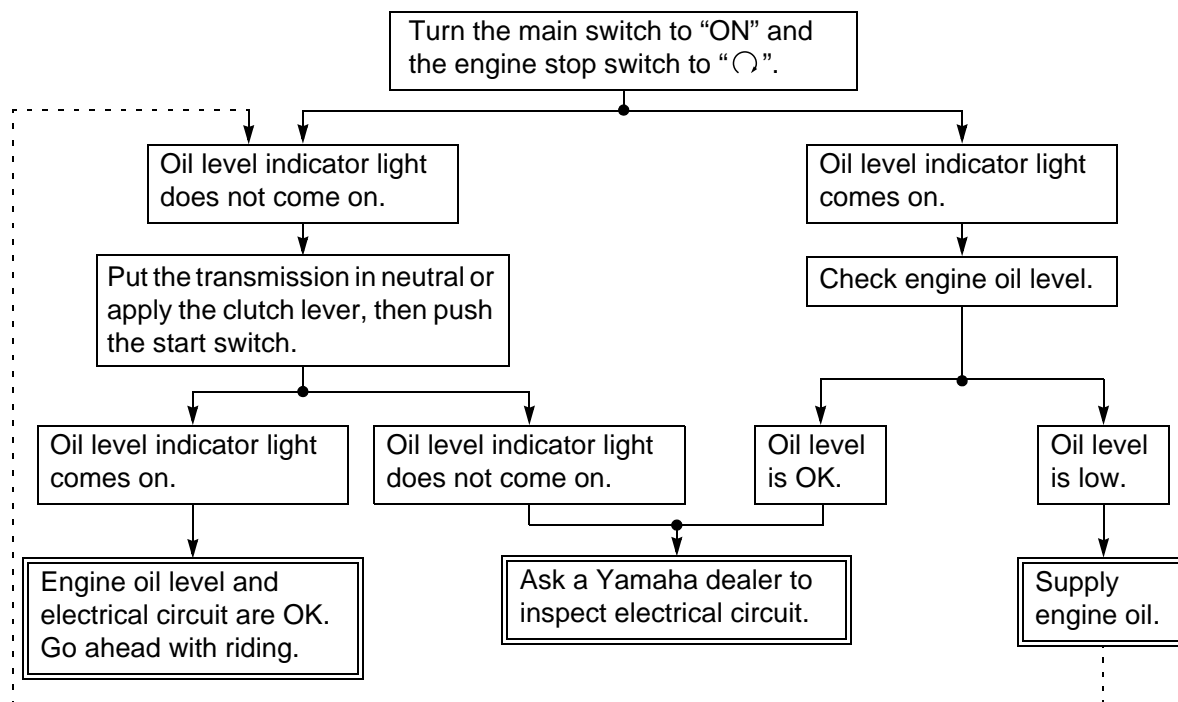
NOTE:

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 normal.

INSTRUMENT AND CONTROL FUNCTIONS

EAU00071

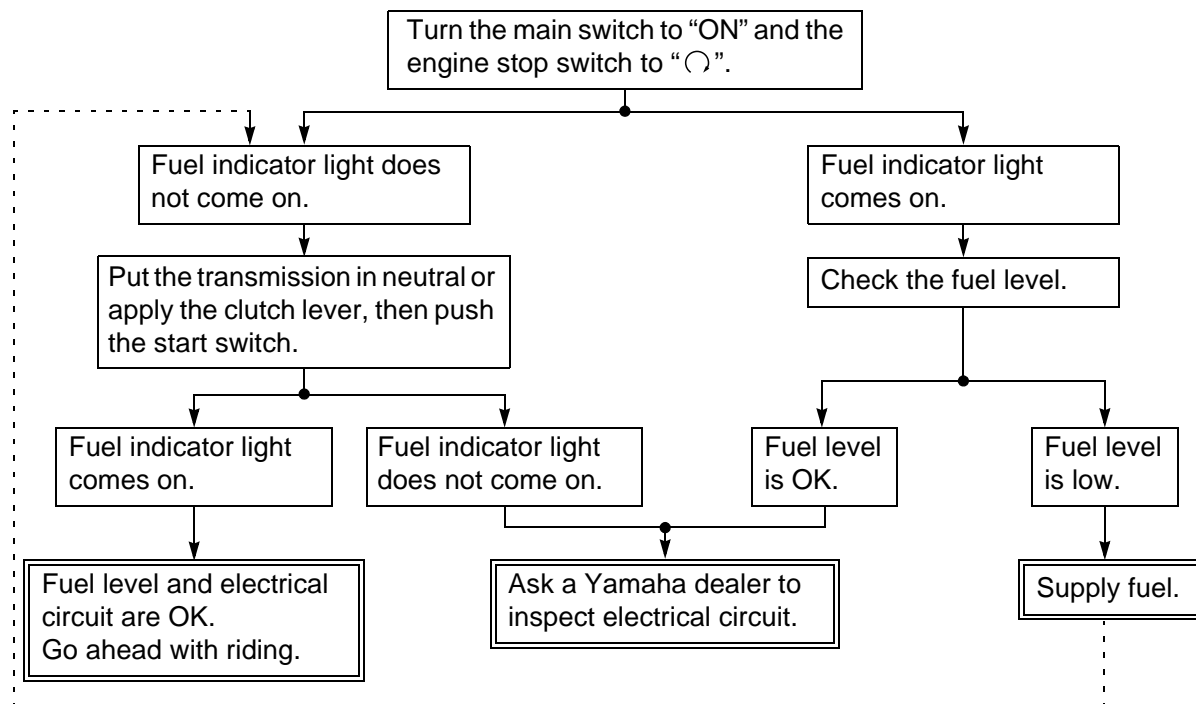
Oil level indicator circuit check



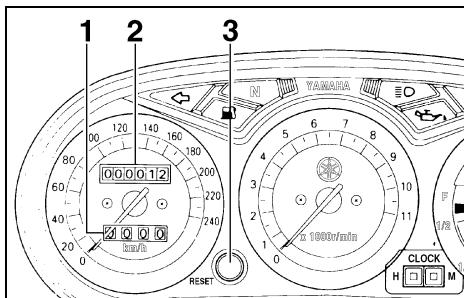
INSTRUMENT AND CONTROL FUNCTIONS

EAU00085

Fuel indicator circuit check



INSTRUMENT AND CONTROL FUNCTIONS

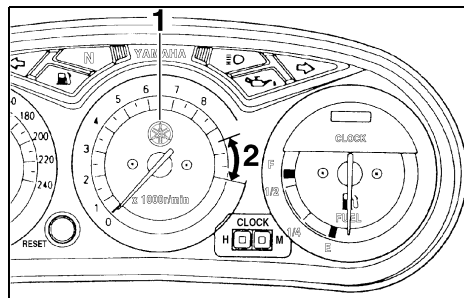


1. Tripmeter
2. Odometer
3. Reset button

EAU00094

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 button. 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.



1. Tachometer
2. Red zone

EAU00101

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.

EC000003

CAUTION:

Do not operate in the red zone.
Red zone: 9,500 r/min and above

INSTRUMENT AND CONTROL FUNCTIONS

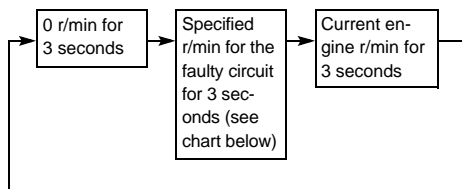
Diagnosis device

EAU01559*

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

- Throttle Position Sensor (T.P.S.)
- Ignition 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
10,000 r/min	Throttle Position Sensor (T.P.S.)
9,000 r/min	Ignition circuit

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.

EC000004

CAUTION:

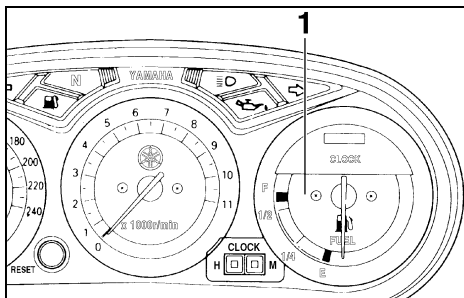
To prevent engine damage, be sure to consult a Yamaha dealer as soon as possible if the tachometer displays a repeated change in r/min.

Antitheft alarm (optional)

EAU00109

An antitheft alarm can be equipped to this motorcycle. Consult your Yamaha dealer to obtain and install the alarm.

INSTRUMENT AND CONTROL FUNCTIONS

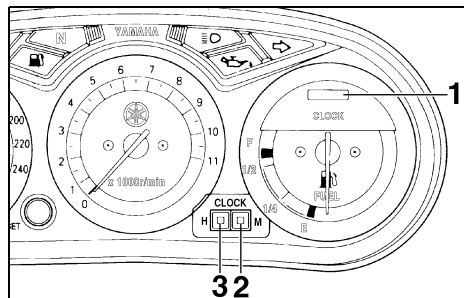


1. Fuel gauge

EAU00110

Fuel gauge

This model is equipped with an electric fuel gauge so the rider can monitor the fuel level in the fuel tank. When the needle indicates “E” (Empty), about 5 L remain in the fuel tank.



1. Digital clock

2. “M” switch

3. “H” switch

EAU00117

Digital clock

This digital clock always shows the time regardless of the main switch position.

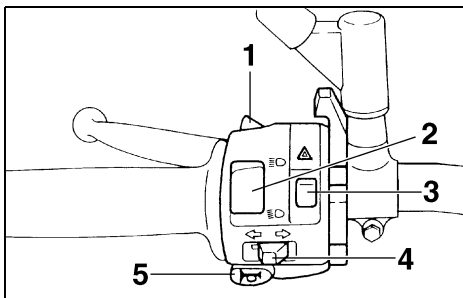
Adjustment

1. Turn the main switch to “ON”.
2. The time (hour) setting can be made by pushing or holding the “H” switch.
3. The time (minute) setting can be made by pushing or holding the “M” switch.

NOTE:

When setting the clock after its power source is cut by a removed battery, etc., first set the time for 1:00 AM, then, go on to set it for the correct time.

INSTRUMENT AND CONTROL FUNCTIONS



1. Pass switch "PASS"
2. Dimmer switch
3. Hazard switch "▲"
4. Turn signal switch
5. Horn switch "📢"

Handlebar switches

Pass switch "PASS"

Press the switch to operate the passing light.

Dimmer switch

Turn the switch to "☰" for the high beam and to "☷" for the low beam.

Hazard switch "▲"

The hazard switch should be turned on under emergency or hazardous conditions. All turn signal lights will flash simultaneously when this switch is turned on with the main switch in the "ON" or "P" position.

CAUTION:

The battery can discharge from extended use, making it difficult to operate the starter.

NOTE:

Turn on the hazard switch to warn other drivers if your motorcycle must be stopped where it might be a traffic hazard.

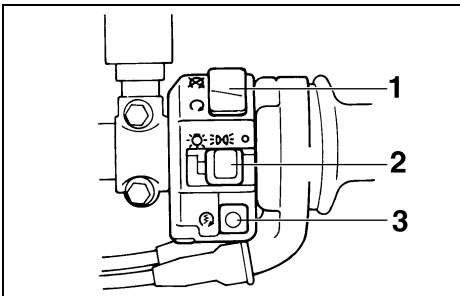
Turn signal switch


To signal a right-hand turn, push the switch to "➡". To signal a left-hand turn, push the switch to "⬅". 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 "📢"

Press the switch to sound the horn.



INSTRUMENT AND CONTROL FUNCTIONS





1. Engine stop switch
2. Lights switch
3. Start switch “”

EAU00138

Engine stop switch

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

Lights switch

Turning the light switch to “”, turns on the auxiliary light, meter lights and taillight. Turning the light switch to “” turns the headlight on also.

EAU00134

Start switch “”

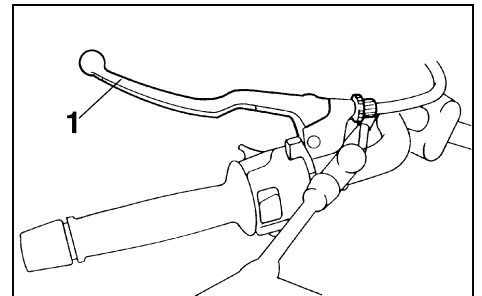
The starter motor cranks the engine when pushing the start switch.

EAU00143

EC000005

CAUTION:

See starting instructions prior to starting the engine.



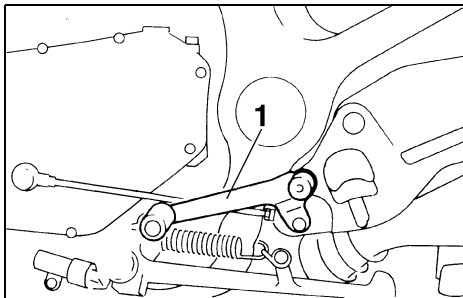
1. Clutch lever

EAU00152

Clutch lever

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 to the handlebar to disengage the clutch, and release the lever to engage the clutch. The lever should be pulled rapidly and released slowly for smooth clutch operation. (Refer to the engine starting procedures for a description of the ignition circuit cut-off system.)

INSTRUMENT AND CONTROL FUNCTIONS



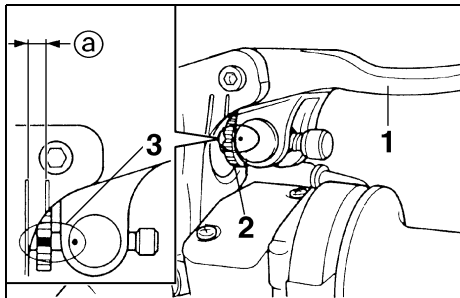
1. Shift pedal

EAU00157

Shift pedal

This motorcycle is equipped with a constant-mesh 5-speed transmission.

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



1. Front brake lever

2. Position adjusting nut

3. Proper position

a. Adjusting range

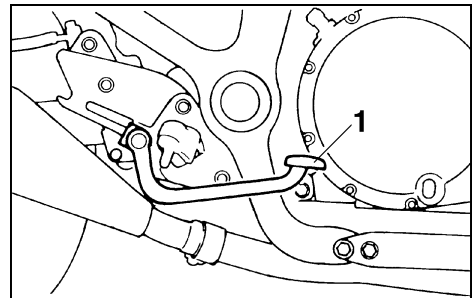
EAU00160

Front brake lever

The front brake lever is located on the right handlebar and is equipped with a position adjuster.

To activate the front brake, pull the lever toward the handlebar.

To adjust the front brake lever position, turn the adjusting nut while pulling the lever forward. Make sure the mark "■" on the adjusting nut is aligned with the mark "●" on the lever.



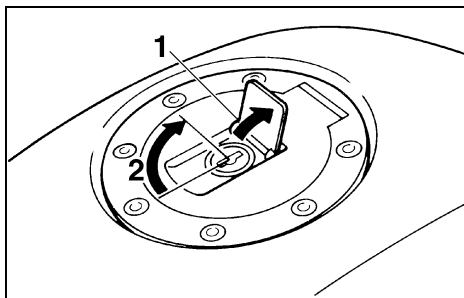
1. Rear brake pedal

EAU00162

Rear brake pedal

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

INSTRUMENT AND CONTROL FUNCTIONS



1. Lock cover
2. Open

EAU02935

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.

EW000023

WARNING

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

Fuel tank cap

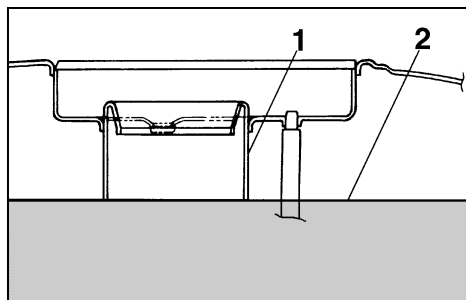
To open

Open the lock 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 lock cover.

INSTRUMENT AND CONTROL FUNCTIONS



1. Filler tube
2. Fuel level

EAU001183

Fuel

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

EW000130

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 or it may overflow when the fuel heats up later and expands.

EAU00186

EAU00191

CAUTION:

- Always wipe off spilled fuel immediately with a dry and clean soft cloth. Fuel may deteriorate painted surfaces or plastic parts.
- (For Germany only)
The fuel tank cap equipped on German models is specially designed. Always use the correct cap whenever replacement is necessary.

Recommended fuel:

Regular unleaded gasoline with a research octane number of 91 or higher.

Fuel tank capacity:

Total:

24 L

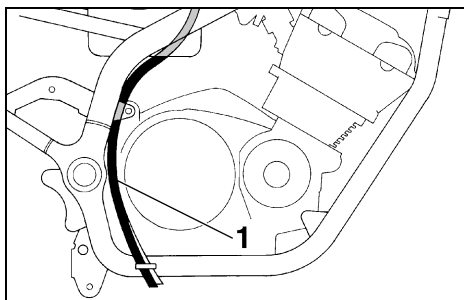
Reserve:

5 L

NOTE:

If knocking or pinging occurs, use a different brand of gasoline or higher octane grade.

INSTRUMENT AND CONTROL FUNCTIONS



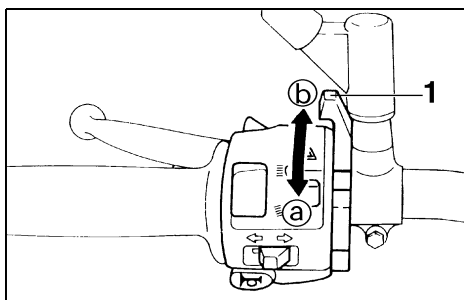
1. Fuel tank breather hose

EAU00196

Fuel tank breather hose (for Germany only)

This model is equipped with a fuel tank breather hose. Before using this motorcycle, be sure to:

- Check hose connection.
- Check hose for cracks or damage. Replace if damaged.
- Make sure the end of the hose is not blocked. Clean it if necessary.



1. Starter (choke) “|↘|”

EAU02976

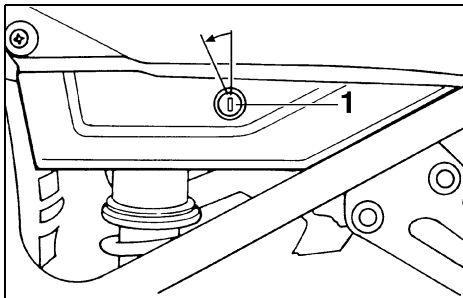
Starter (choke) “|↘|”

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

Move in direction ① to turn on the starter (choke).

Move in direction ② to turn off the starter (choke).

INSTRUMENT AND CONTROL FUNCTIONS



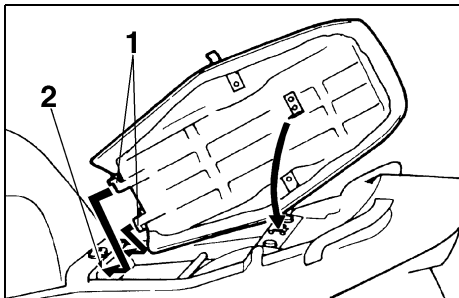
1. Seat lock

EAU002925

Seat

To remove

Insert the key in the lock and turn it counterclockwise.



1. Projection (× 2)

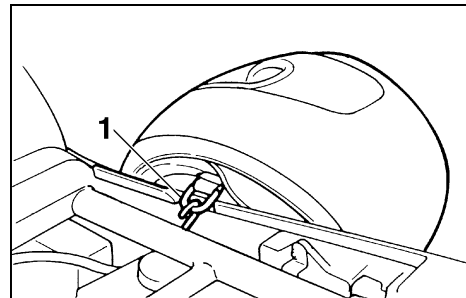
2. Seat holder

To install

Insert the projections on the front of the seat into the seat holder, then push down on the seat.

NOTE:

Make sure that the seat is securely fitted.



1. Helmet holder

EAU00263

Helmet holder

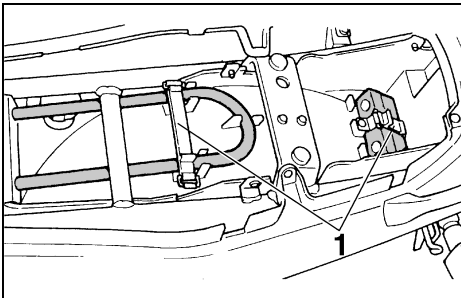
The helmet holder is under the seat. Remove the seat and hook the helmet on the helmet holder. Then, reinstall the seat and lock it.

EW000030

WARNING

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

INSTRUMENT AND CONTROL FUNCTIONS



1. Strap for U-LOCK (× 2)

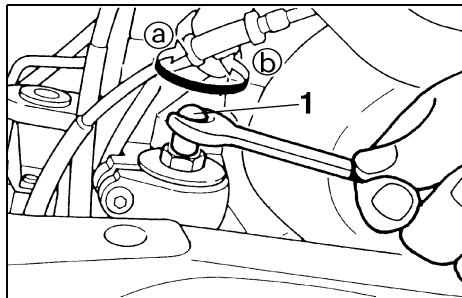
EAU01688

Storage compartment

This compartment is designed to store a genuine Yamaha U-LOCK. (Other locks may not fit.) Be sure the lock is fastened securely with the straps when storing it in the compartment.

To prevent losing the straps, be sure to secure them even when a U-LOCK is not being stored in the compartment.

When storing this Owner's manual or other documents in the compartment, be sure to put them in a vinyl bag so they do not get wet. When washing the motorcycle, be careful not to flood this compartment with water.



1. Spring preload adjusting bolt

EAU00285

Front fork adjustment

This front fork is equipped with spring preload adjusting bolts.

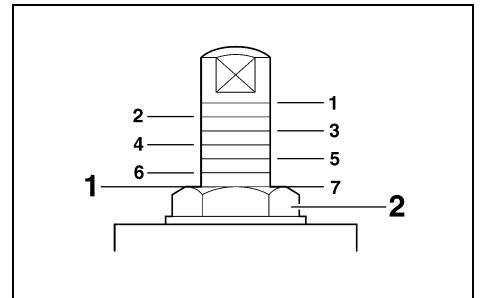
EW000037

WARNING

Each fork leg must be set to the same pressure. Uneven setting can cause poor handling and loss of stability.

Adjust spring preload as follows.

Turn the adjusting bolts in direction Ⓐ to increase spring preload and in direction Ⓑ to decrease spring preload.



1. Setting

2. Front fork cap bolt

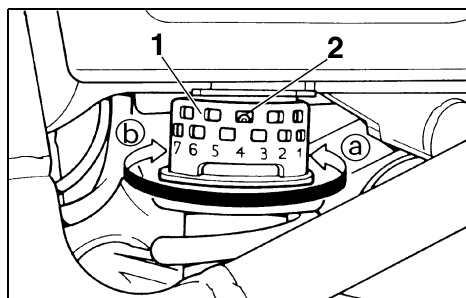
EC000013

CAUTION:

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

	Hard			Standard	Soft		
Adjusting position	1	2	3	4	5	6	7

INSTRUMENT AND CONTROL FUNCTIONS

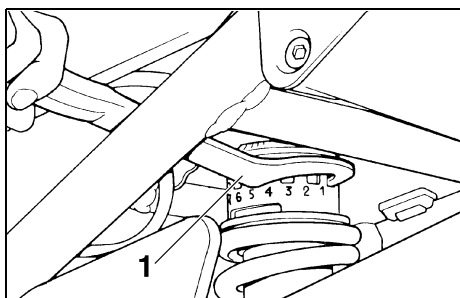


1. Spring preload adjusting ring
2. Position indicator

EAU00295*

Rear shock absorber adjustment

This shock absorber is equipped with a spring preload adjusting ring. Adjust spring preload as follows. Turn the adjusting ring in direction (a) to increase spring preload and in direction (b) to decrease spring preload. Make sure that the appropriate notch in the adjusting ring is aligned with the position indicator on the rear shock absorber.



1. Special wrench

	Soft		Standard	Hard			
Adjusting position	1	2	3	4	5	6	7

⚠ 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.

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

INSTRUMENT AND CONTROL FUNCTIONS

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 5-1 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.

WARNING

- Be sure to use the centerstand during this inspection.
- If improper operation is noted, consult a Yamaha dealer.

TURN MAIN SWITCH TO "ON" AND ENGINE STOP SWITCH TO "○".

TRANSMISSION IS IN GEAR AND SIDESTAND IS UP.

PULL IN CLUTCH LEVER AND PUSH START SWITCH.

ENGINE WILL START.

CLUTCH SWITCH IS OK.

SIDESTAND IS DOWN.

ENGINE WILL STALL.

SIDESTAND SWITCH IS OK.

PRE-OPERATION CHECKS

Pre-operation check list..... 4-1

PRE-OPERATION CHECKS

EAU01114

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

EAU00340

PRE-OPERATION CHECK LIST

ITEM	CHECKS	PAGE
Front brake	<ul style="list-style-type: none">• Check operation, free play, fluid level and fluid leakage.• Fill with DOT 4 brake fluid if necessary.	6-19 ~ 6-21
Rear brake	<ul style="list-style-type: none">• Check operation, free play, fluid level and fluid leakage.• Fill with DOT 4 brake fluid if necessary.	
Clutch	<ul style="list-style-type: none">• Check operation condition and free play.• Adjust if necessary.	6-18
Throttle grip and housing	<ul style="list-style-type: none">• Check for smooth operation.• Lubricate if necessary.	6-14, 6-21
Engine oil	<ul style="list-style-type: none">• Check oil level.• Fill with oil if necessary.	6-8 ~ 6-10
Final gear oil	<ul style="list-style-type: none">• Check for leakage.	6-11
Wheels and tires	<ul style="list-style-type: none">• Check tire pressure, wear and damage.	6-15 ~ 6-18, 6-27 ~ 6-31
Control and meter cables	<ul style="list-style-type: none">• Check for smooth operation.• Lubricate if necessary.	6-21
Brake and shift pedal shafts	<ul style="list-style-type: none">• Check for smooth operation.• Lubricate if necessary.	6-22
Brake and clutch lever pivots	<ul style="list-style-type: none">• Check for smooth operation.• Lubricate if necessary.	6-22
Center and sidestand pivots	<ul style="list-style-type: none">• Check for smooth operation.• Lubricate if necessary.	6-22

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Chassis fasteners	<ul style="list-style-type: none">• Make sure that all nuts, bolts and screws are properly tightened.• Tighten if necessary.	—
Fuel	<ul style="list-style-type: none">• Check fuel level.• Fill with fuel if necessary.	3-13
Lights, signals and switches	<ul style="list-style-type: none">• Check for proper operation.	6-26 ~ 6-27

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.

OPERATION AND IMPORTANT RIDING POINTS

Starting the engine	5-1
Starting a warm engine	5-4
Shifting	5-4
Recommended shift points (for Switzerland only)	5-5
Tips for reducing fuel consumption	5-5
Engine break-in	5-5
Parking	5-6

OPERATION AND IMPORTANT RIDING POINTS

EAU00372

EAU00373

EAU01627

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.
- 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.
- Before starting out, always be sure the sidestand is up. Failure to retract the sidestand completely can result in a serious accident when you try to turn a corner.

Starting the engine

NOTE:

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

The engine can be started only under one of the following conditions:

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

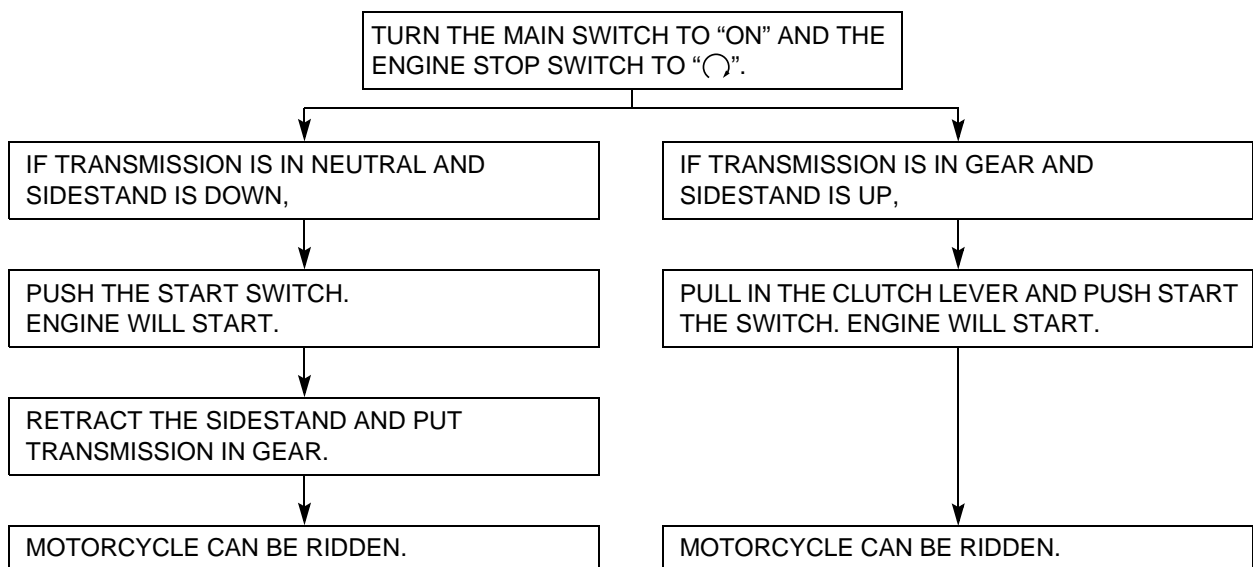
The motorcycle must not be ridden when the sidestand is down.

EW000054

WARNING

Before going through the following steps, check the function of the sidestand switch and clutch switch. (Refer to page 3-18.)

OPERATION AND IMPORTANT RIDING POINTS



1. Turn the main switch to “ON” and the engine stop switch to “○”.
EC000035

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.

CAUTION: _____
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 halfway position.

NOTE: _____
For maximum engine life, never accelerate hard with a cold engine!

6. After the engine is warm, turn off the starter (choke) completely.

NOTE: _____
The engine is warm when it responds normally to the throttle with the starter (choke) turned off.

OPERATION AND IMPORTANT RIDING POINTS

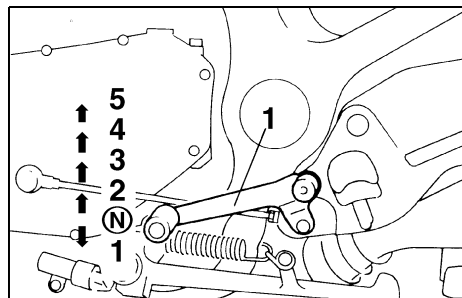
OPERATION AND IMPORTANT RIDING POINTS

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.



1. Shift pedal
N. Neutral

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.

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

CAUTION:

- 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.
- 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.

OPERATION AND IMPORTANT RIDING POINTS

Recommended shift points (for Switzerland only)

The recommended shift points are shown in the table below.

	Acceleration shift point (km/h)
1st → 2nd	23
2nd → 3rd	36
3rd → 4th	50
4th → 5th	60

NOTE:

When shifting two gears down from 4th to 2nd, bring your motorcycle to a speed of 35 km/h.

Tips for reducing fuel consumption

Your motorcycle's fuel consumption depends to a large extent on your riding style. The following tips can help reduce fuel consumption:

- Warm up the engine before riding.
- Turn off the starter (choke) as soon as possible.
- Shift up swiftly and avoid high engine speeds during acceleration.
- Do not double-clutch or rev the engine while shifting down and avoid high engine speeds with no load on the engine.
- Turn off the engine instead of letting it idle for an extended length of time, i.e. in traffic jams, at traffic lights or railroad crossings.

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.

OPERATION AND IMPORTANT RIDING POINTS

0 ~ 500 km

EAU00448

Avoid operation above 4,000 r/min. Stop the engine and let it cool for 5 to 10 minutes after every hour of operation. Vary the speed of the motorcycle from time to time. Do not operate it at one set throttle position.

500 ~ 1,000 km

Avoid prolonged operation above 5,000 r/min. Rev the motorcycle freely through the gears, but do not use full throttle at any time.

EC000056

CAUTION:

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

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.

EC000053

Parking

EAU00460

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

EW000058

WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Tool kit.....	6-1	Brake fluid replacement	6-21
Periodic maintenance and lubrication.....	6-2	Cable inspection and lubrication	6-21
Cowling removal and installation	6-5	Throttle cable and grip lubrication	6-21
Cowling A.....	6-5	Brake and shift pedal lubrication	6-22
Cowling B.....	6-6	Brake and clutch lever lubrication	6-22
Spark plug inspection	6-7	Center and sidestand lubrication	6-22
Engine oil	6-8	Front fork inspection.....	6-23
Final gear oil replacement	6-11	Steering inspection	6-23
Air filter	6-11	Wheel bearings	6-24
Carburetor adjustment	6-13	Battery.....	6-24
Idle speed adjustment	6-13	Fuse replacement	6-25
Throttle cable free play inspection	6-14	Headlight bulb replacement	6-26
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Brake light switch adjustment	6-19	Troubleshooting	6-31
Checking the front and rear brake pads.....	6-19	Troubleshooting chart.....	6-32
Inspecting the brake fluid level.....	6-20		

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00462

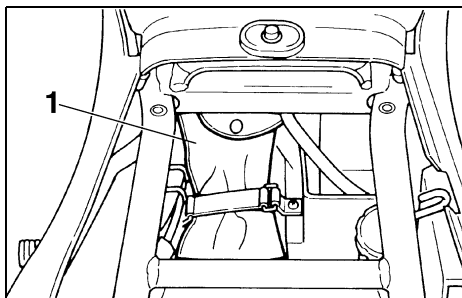
Periodic inspection, adjustment and lubrication will keep your motorcycle in the safest and most efficient condition possible. Safety is an obligation of the motorcycle owner. The maintenance and lubrication schedule chart should be considered strictly as a guide to general maintenance and lubrication intervals. YOU MUST TAKE INTO CONSIDERATION THAT WEATHER, TERRAIN, GEOGRAPHICAL LOCATIONS, AND A VARIETY OF INDIVIDUAL USES ALL TEND TO DEMAND THAT EACH OWNER ALTER THIS TIME SCHEDULE TO SHORTER INTERVALS TO MATCH THE ENVIRONMENT. The most important points of motorcycle inspection, adjustment, and lubrication are explained in the following pages.

EAU00464

EW000060

! WARNING

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



1. Tool kit

EAU00469

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.

EW000063

! 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 AND MINOR REPAIR

EAU00473

PERIODIC MAINTENANCE AND LUBRICATION

NO.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL (1,000 km)	EVERY	
				6,000 km or 6 months (whichever comes first)	12,000 km or 12 months (whichever comes first)
1	* Fuel line	<ul style="list-style-type: none"> • Check fuel hoses for cracks or damage. • Replace if necessary. 		√	√
2	* Fuel filter	<ul style="list-style-type: none"> • Check condition. • Replace if necessary. 			√
3	Spark plugs	<ul style="list-style-type: none"> • Check condition. • Clean, regap or replace if necessary. 	√	√	√
4	* Valves	<ul style="list-style-type: none"> • Check valve clearance. • Adjust if necessary. 	Every 24,000 km or 24 months (whichever comes first)		
5	Air filter	<ul style="list-style-type: none"> • Clean or replace if necessary. 		√	√
6	Clutch	<ul style="list-style-type: none"> • Check operation. • Adjust or replace cable. 	√	√	√
7	* Front brake	<ul style="list-style-type: none"> • Check operation, fluid level and vehicle for fluid leakage. (See NOTE on page 6-4.) • Correct accordingly. • Replace brake pads if necessary. 	√	√	√
8	* Rear brake	<ul style="list-style-type: none"> • Check operation, fluid level and vehicle for fluid leakage. (See NOTE on page 6-4.) • Correct accordingly. • Replace brake pads if necessary. 	√	√	√
9	* Wheels	<ul style="list-style-type: none"> • Check balance, runout and for damage. • Rebalance or replace if necessary. 		√	√
10	* Tires	<ul style="list-style-type: none"> • Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary. 		√	√

PERIODIC MAINTENANCE AND MINOR REPAIR

NO.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL (1,000 km)	EVERY	
				6,000 km or 6 months (whichever comes first)	12,000 km or 12 months (whichever comes first)
11 *	Wheel bearings	<ul style="list-style-type: none"> • Check bearing for looseness or damage. • Replace if necessary. 		√	√
12 *	Swingarm	<ul style="list-style-type: none"> • Check swingarm pivoting point for play. • Correct if necessary. • Lubricate with molybdenum disulfide grease every 24,000 km or 24 months (whichever comes first). 		√	√
13 *	Steering bearings	<ul style="list-style-type: none"> • Check bearing play and steering for roughness. • Correct accordingly. • Lubricate with lithium soap base grease every 24,000 km or 24 months (whichever comes first). 		√	√
14 *	Chassis fasteners	<ul style="list-style-type: none"> • Make sure that all nuts, bolts and screws are properly tightened. • Tighten if necessary. 		√	√
15	Sidestand/centerstand	<ul style="list-style-type: none"> • Check operation. • Lubricate and repair if necessary. 		√	√
16 *	Sidestand switch	<ul style="list-style-type: none"> • Check operation. • Replace if necessary. 	√	√	√
17 *	Front fork	<ul style="list-style-type: none"> • Check operation and for oil leakage. • Correct accordingly. 		√	√
18 *	Rear shock absorber assembly	<ul style="list-style-type: none"> • Check operation and shock absorber for oil leakage. • Replace shock absorber assembly if necessary. 		√	√
19 *	Rear suspension relay arm and connecting arm pivoting points	<ul style="list-style-type: none"> • Check operation. • Lubricate with molybdenum disulfide grease every 24,000 km or 24 months (whichever comes first). 		√	√
20 *	Carburetors	<ul style="list-style-type: none"> • Check engine idling speed, synchronization and starter operation. • Adjust if necessary. 	√	√	√
21	Engine oil	<ul style="list-style-type: none"> • Check oil level and vehicle for oil leakage. • Correct if necessary. • Change. (Warm engine before draining.) 	√	√	√

PERIODIC MAINTENANCE AND MINOR REPAIR

NO.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL (1,000 km)	EVERY	
				6,000 km or 6 months (whichever comes first)	12,000 km or 12 months (whichever comes first)
22	Engine oil filter cartridge	• Replace.	√		√
23	Final gear oil	• Check oil level and vehicle for oil leakage. • Change oil at initial 1,000 km and thereafter every 24,000 km or 24 months (whichever comes first).	√	√	√

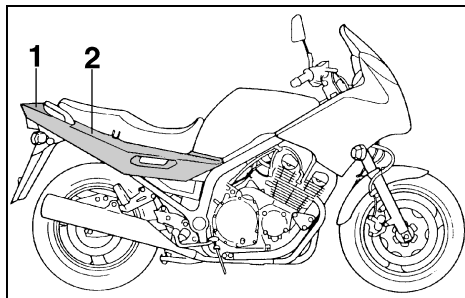
* Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer.

EAU02970

NOTE:

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake system
 - When disassembling the master cylinder or caliper, always replace the brake fluid. Check the brake fluid level regularly and fill as required.
 - Replace the oil seals on the inner parts of the master cylinder and caliper every two years.
 - Replace the brake hoses every four years or if cracked or damaged.

PERIODIC MAINTENANCE AND MINOR REPAIR

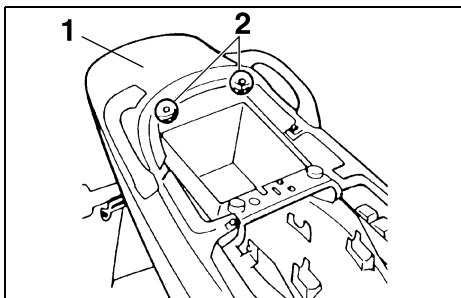


1. Cowling A
2. Cowling B

EAU01065

Cowling removal and installation

The cowlings indicated in the illustration need to be removed to perform some of the maintenance described in this chapter. Refer to this section each time a cowling has to be removed or re-installed.



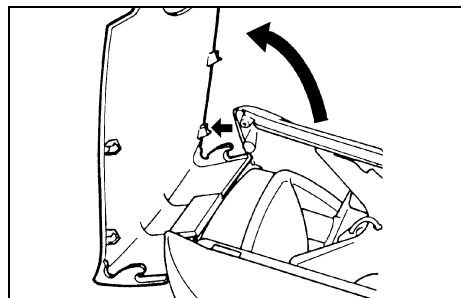
1. Cowling A
2. Screw (× 2)

EAU00490*

Cowling A

To remove

1. Remove the seat. (See page 3-15 for seat removal and installation procedures.)
2. Remove the screws shown.

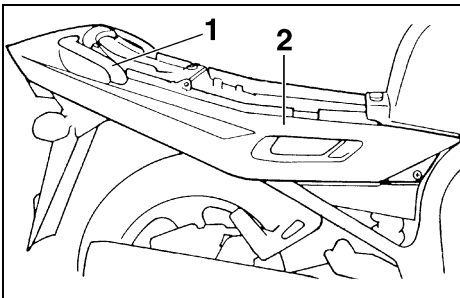


3. Pull the cowling up, and then slide it back.

To install

1. Place the cowling in the original position, and then install the screws.
2. Install the seat.

PERIODIC MAINTENANCE AND MINOR REPAIR



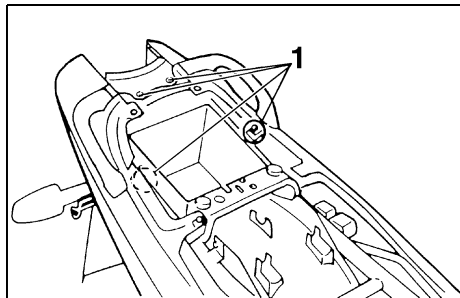
1. Grab bar
2. Cowling B

EAU00486*

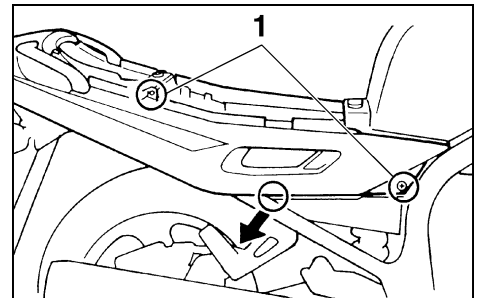
Cowling B

To remove

1. Remove the cowling A.



1. Bolt (× 4)
2. Remove the bolts and the grab bar.

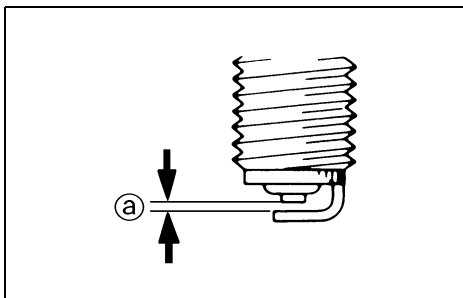


1. Screw (× 2)
3. Remove the screws and pull the cowling off as shown.

To install

1. Place the cowling in the original position, and then install the screws.
2. Install the grab bar, cowling A and seat.

PERIODIC MAINTENANCE AND MINOR REPAIR



a. Spark plug gap

EAU01880

Spark plug inspection

The spark plug is an important engine component and should be inspected periodically, preferably by a Yamaha dealer. 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. The spark plugs should be periodically removed and inspected 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, the spark plug should be replaced with the specified plug.

Specified spark plug:
DPR8EA-9 (NGK) or
X24EPR-U9 (DENSO)

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

Spark plug gap:
0.8 ~ 0.9 mm

When installing a spark plug, the gasket surface should always be cleaned and a new gasket used. Any grime should be wiped off from the threads and the spark plug tightened to the specified torque.

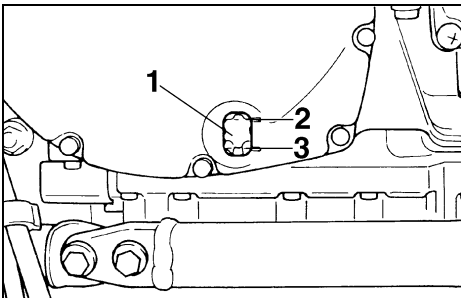
Tightening torque:

Spark plug:
17.5 Nm (1.75 m·kg)

NOTE:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Engine oil level window
2. Maximum level mark
3. Minimum level mark

EAU02938

Engine oil

Oil level inspection

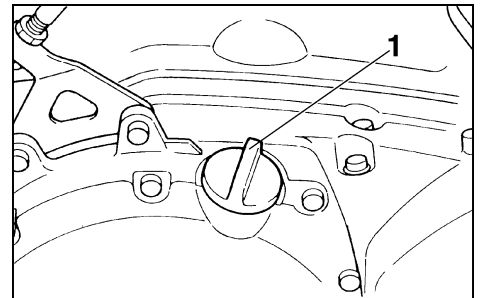
1. Place the motorcycle on the centerstand. Warm up the engine for several minutes.

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.

2. 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.

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

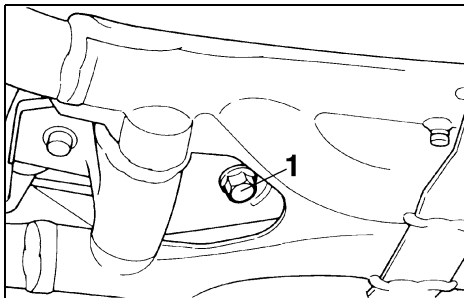


1. Engine oil filler cap

Engine oil and oil filter cartridge replacement

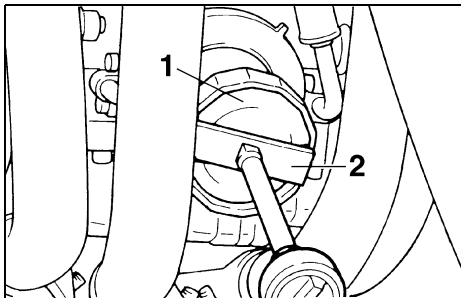
1. Warm up the engine for several minutes.
2. Stop the engine. Place an oil pan under the engine and remove the oil filler cap.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Engine oil drain bolt

3. Remove the drain bolt and drain the oil.



1. Oil filter cartridge

2. Oil filter wrench

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

NOTE: _____

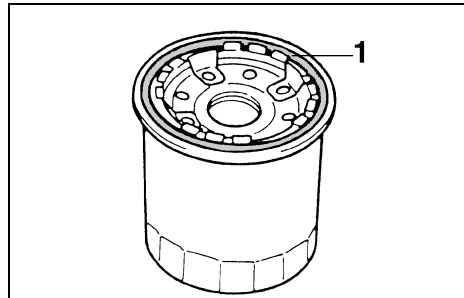
An oil filter wrench is available at a nearby Yamaha dealer.

5. Install the drain bolt and tighten it to the specified torque.

Tightening torque:

Drain bolt:

43 Nm (4.3 m·kg)



1. O-ring

6. 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.

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

NOTE: _____
When installing the oil filter, tighten it to the proper torque by using a torque wrench.

PERIODIC MAINTENANCE AND MINOR REPAIR

Tightening torque:

Oil filter:

17 Nm (1.7 m·kg)

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

Recommended oil:

See page 8-1.

Oil quantity:

Total amount:

4.4 L

Periodic oil change:

3.2 L

With oil filter replacement:

3.4 L

EC000066

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.

9. 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.

NOTE:

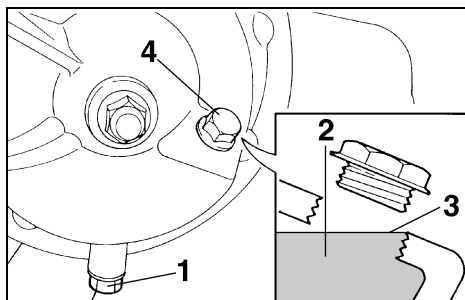
After the engine is started, the oil level indicator light should go off if the oil is at the specified level.

EC000067

CAUTION:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Final gear oil drain bolt
2. Final gear oil
3. Correct level
4. Final gear oil filler bolt

EAU02975

Final gear oil replacement

1. Put the motorcycle on the center-stand.
2. Place an oil pan under the final gear case.
3. Remove the oil filler bolt and the drain bolt to drain the oil.
4. Install and tighten the drain bolt to the specified torque.

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

5. Fill the gear case with the recommended oil.

Recommended oil:
SAE 80 API GL-4 Hypoid gear oil
If desired, an SAE 80W90 hypoid gear oil may be used for all conditions.

Final gear oil quantity:
0.2 L

NOTE:

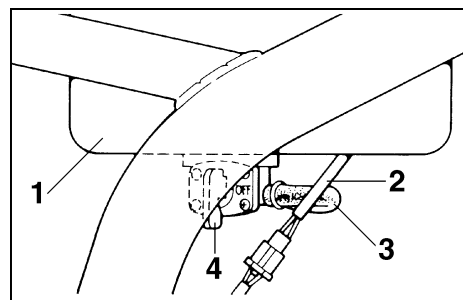
“GL-4” is a quality and additive rating. Hypoid gear oils rated “GL-5” or “GL-6” may also be used.

EW000066



Do not let foreign material enter the final gear case. Be sure oil does not get on the tire or wheel.

6. Install the oil filler bolt.
7. After replacing the final gear oil, be sure to check for oil leakage.



1. Fuel tank
2. Fuel sender lead
3. Fuel hose
4. Fuel cock

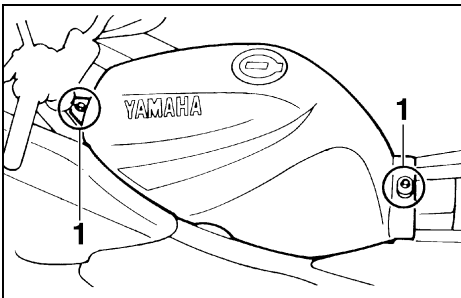
EAU00574*

Air filter

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

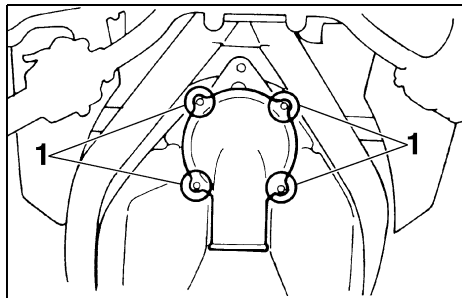
1. Remove the seat.
2. Turn the fuel cock lever to “OFF” and disconnect the fuel hose.

PERIODIC MAINTENANCE AND MINOR REPAIR



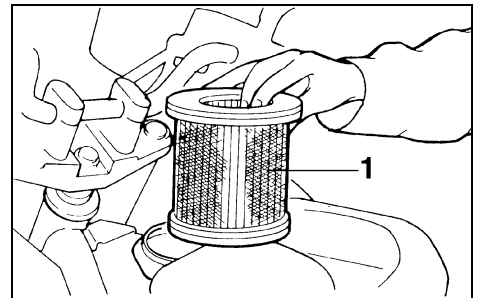
1. Bolt (× 2)

3. Remove the fuel tank bolts.
4. Disconnect the fuel sender lead and remove the fuel tank.



1. Screw (× 4)

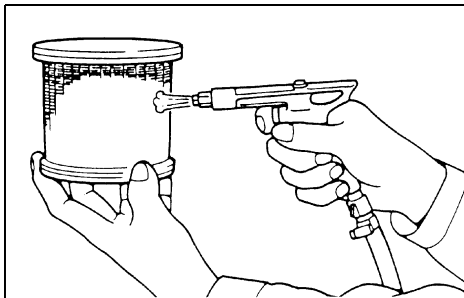
5. Remove the air filter case cover by removing the screws.



1. Air filter

6. Pull out the air filter.

PERIODIC MAINTENANCE AND MINOR REPAIR



7. Tap the air filter lightly to remove most of the dust and dirt and blow out the remaining dirt with compressed air as shown. If the air filter is damaged, replace it.
8. Reassemble by reversing the removal procedure.

EC000082

CAUTION:

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

EAU00630

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.

EC000095

CAUTION:

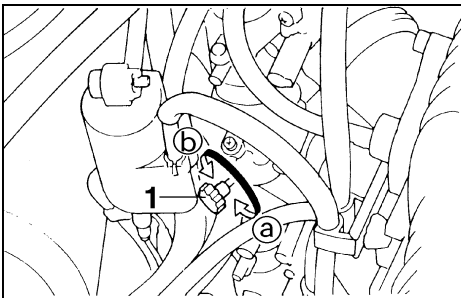
The carburetors were set at the Yamaha factory after many tests. If they are changed, poor engine performance and damage may result.

EAU00632

Idle speed adjustment

1. Start the engine and warm it up for a few minutes at approximately 1,000 to 2,000 r/min. Occasionally rev the engine to 4,000 to 5,000 r/min. The engine is warm when it quickly responds to the throttle.

PERIODIC MAINTENANCE AND MINOR REPAIR

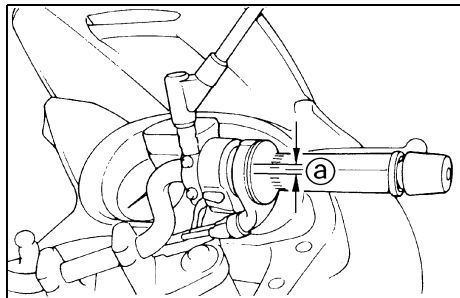


1. Throttle stop screw

2. Set the idle to the specified engine speed by adjusting the throttle stop screw. Turn the screw in direction ① to increase engine speed and in direction ② to decrease engine speed.

Standard idle speed:
950 ~ 1,050 r/min

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



a. Free play

Throttle cable free play inspection

There should be a free play of 3 ~ 5 mm at the throttle grip. If the free play is incorrect, ask a Yamaha dealer to make this adjustment.

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.

EAU00637

EAU00635

PERIODIC MAINTENANCE AND MINOR REPAIR

Tires

EAU00658

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

Tire air pressure

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

EW000082

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.

Maximum load*	205 kg	
Cold tire pressure	Front	Rear
Up to 90 kg load*	225 kPa (2.25 kg/cm ² , 2.25 bar)	250 kPa (2.50 kg/cm ² , 2.50 bar)
90 kg Maximum load*	250 kPa (2.50 kg/cm ² , 2.50 bar)	290 kPa (2.90 kg/cm ² , 2.90 bar)
High speed riding	250 kPa (2.50 kg/cm ² , 2.50 bar)	290 kPa (2.90 kg/cm ² , 2.90 bar)

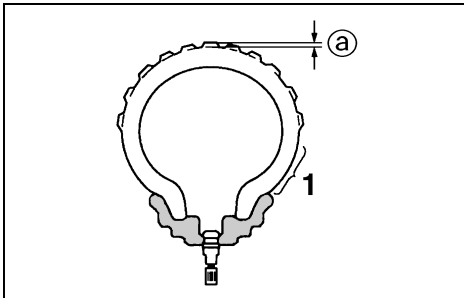
* Load is the total weight of cargo, rider, passenger and accessories.

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.

EW000083

PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Side wall
- a. Tread depth

Tire inspection

Always check the tires before operating the motorcycle. If center tread depth reaches the limit as shown, 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

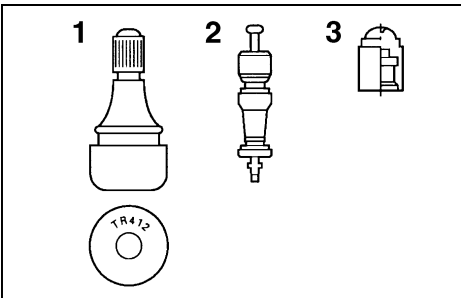
Operating the motorcycle with excessively worn tires decrease riding stability and can lead to loss of control. Have excessively worn tires replaced by a Yamaha dealer immediately. Brakes, tires, and related wheel parts replacement should be left to a Yamaha Service Technician.

Minimum tire tread depth (front and rear)	1.6 mm
---	--------

NOTE:

These limits may be different by regulation from country to country. If so, conform to the limits specified by the regulations of your own country.

EW000095



- 1. Tire valve
- 2. Valve core
- 3. Valve cap with seal

Tire information

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

PERIODIC MAINTENANCE AND MINOR REPAIR

EW000080

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
Metzeler	120/70-17 58V	ME33
Dunlop	120/70-17 58V	K505F
Bridgestone	120/70-17 58V	G601

REAR

Manufacturer	Size	Type
Metzeler	150/70-17 69V	ME55A
Dunlop	150/70-17 69V	K505
Bridgestone	150/70-17 69V	G602

	Type
Tire valve	TR412
Valve core	#9000A (original)

EAU00684

WARNING

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

- Never fail to use the specified tires in tire replacement. Other tires may have a danger of bursting at super high-speeds.
- 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.
- Before any high-speed runs, the tires should be warmed-up sufficiently.
- Always inflate to the correct tire pressure according to the operating conditions.

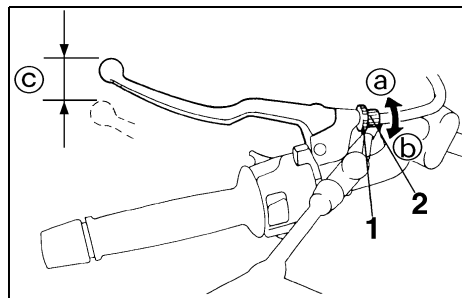
PERIODIC MAINTENANCE AND MINOR REPAIR

Wheels

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

EAU00687



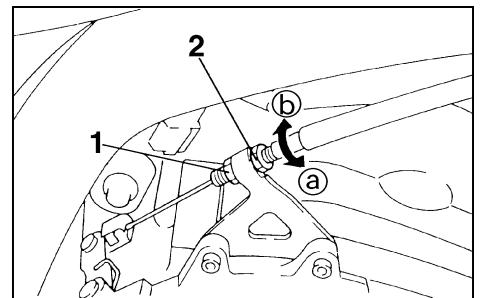
1. Locknut
2. Adjusting bolt
- c. Free play

Clutch lever free play adjustment

The clutch lever free play should be adjusted to 10 ~ 15 mm.

1. Loosen the locknut at the clutch lever.
2. Turn the adjusting bolt at the clutch lever in direction ① to increase free play or in direction ② to decrease free play.
3. Tighten the locknut at the clutch lever.

EAU00694

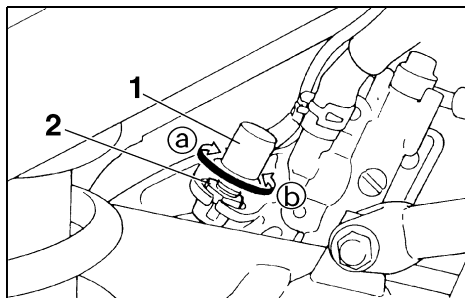


1. Locknut
2. Adjusting nut

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

4. Loosen the locknut at the clutch lever.
5. Turn the adjusting bolt at the clutch lever in direction ① to loosen the cable.
6. Loosen the locknut at the crankcase side.
7. Turn the adjusting nut at the crankcase in direction ① to increase free play or in direction ② to decrease free play.
8. Tighten the locknut at the crankcase and the clutch lever.

PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Brake light switch
- 2. Adjusting nut

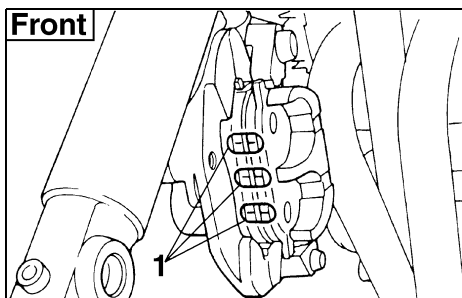
EAU00713

Brake light switch adjustment

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

Turn the adjusting nut in direction ① to make the brake light come on earlier.

Turn the adjusting nut in direction ② to make the brake light come on later.

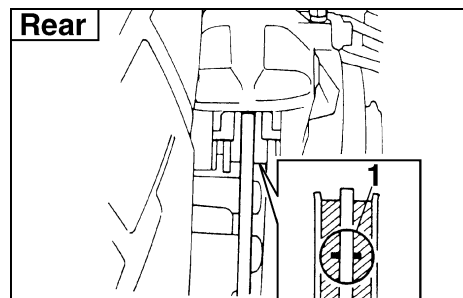


- 1. Wear indicator groove (× 6)

EAU01160

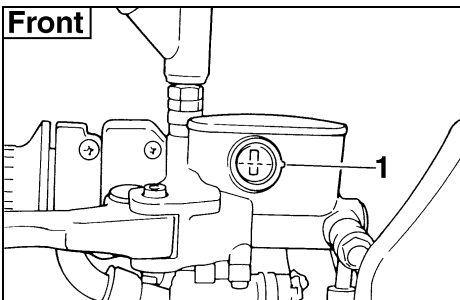
Checking the front and rear brake pads

Wear indicator grooves are provided on each brake pad. These indicators allow checking of brake pad wear without disassembling the brake. Inspect the grooves. If they have almost disappeared, ask a Yamaha dealer to replace the pads.



- 1. Wear indicator groove (× 2)

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Minimum level mark

EAU00733

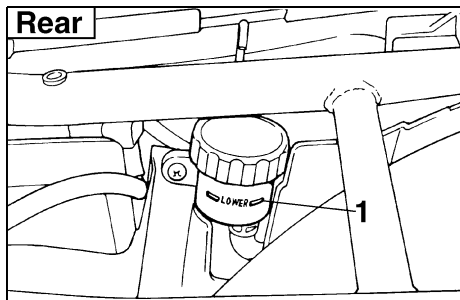
Inspecting the brake fluid level

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

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

Observe these precautions:

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



1. Minimum level mark

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

Recommended brake fluid: DOT 4

NOTE: _____
If DOT 4 is not available, DOT 3 can be used for the front brake only.

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- Have a Yamaha dealer check the cause if the brake fluid level goes down.

PERIODIC MAINTENANCE AND MINOR REPAIR

Brake fluid replacement

EAU00742

The brake fluid should be replaced only by trained Yamaha service personnel. Have the Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking:

- oil seals (every two years)
- brake hoses (every four years)

Cable inspection and lubrication

EAU02962

EW000112

WARNING

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

Lubricate the cables and cable ends. If a cable does not operate smoothly, ask a Yamaha dealer to replace it.

Recommended lubricant:
Engine oil

Throttle cable and grip lubrication

EAU00773

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.

PERIODIC MAINTENANCE AND MINOR REPAIR

Brake and shift pedal lubrication

EAU02984

Lubricate the pivoting parts.

Recommended lubricant:
Engine oil

Brake and clutch lever lubrication

EAU02985

Lubricate the pivoting parts.

Recommended lubricant:
Engine oil

Center and sidestand lubrication

EAU02965

Lubricate the pivoting and mating joints.

Check to see that the center and side-stand move up and down smoothly.

Recommended lubricant:
Engine oil

EW000114

WARNING

If the center and/or sidestand does not move smoothly, consult a Yamaha dealer.

PERIODIC MAINTENANCE AND MINOR REPAIR

Front fork inspection

Visual check

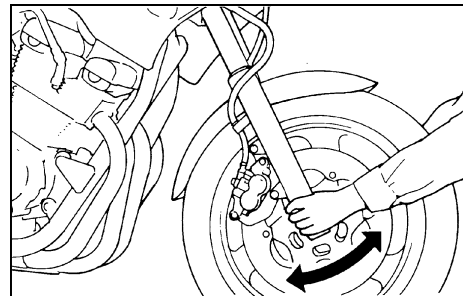
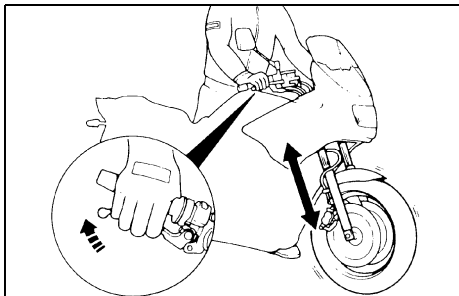
EAU02939

EW000115

⚠ WARNING

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

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



Operation check

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

EC000098

CAUTION:

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

Steering inspection

EAU00794

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

EW000115

⚠ WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Wheel bearings

EAU01144

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.

Battery

EAU00800

This motorcycle is equipped with a sealed-type 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.
- If the motorcycle is equipped with optional electrical accessories, the battery tends to discharge more quickly, so be sure to recharge it periodically.

EC000101

CAUTION:

Never try to remove the sealing caps of the battery cells. The battery will be damaged.

WARNING

EW000116

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

ANTIDOTE:

- **EXTERNAL:** Flush with water.
- **INTERNAL:** Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call a physician immediately.
- **EYES:** Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes etc., away. Ventilate when charging or using in an enclosed space. Always shield your eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN.

PERIODIC MAINTENANCE AND MINOR REPAIR

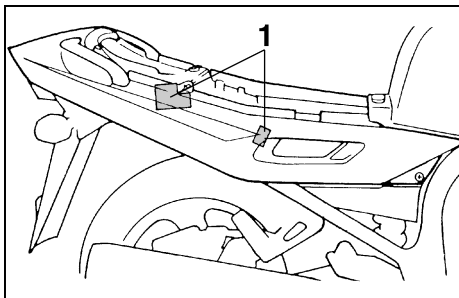
Battery storage

When the motorcycle is not used for a month or longer, remove the battery, fully charge it and store it in a cool, dry place.

EC000102

CAUTION:

- Completely recharge the battery before storing. Storing a discharged battery can cause permanent battery damage.
- Use a battery charger designed for a sealed-type (MF) battery. Using a conventional battery charger will cause battery damage. If you do not have a sealed-type battery charger, contact your Yamaha dealer.
- Always make sure the connections are correct when reinstalling the battery.



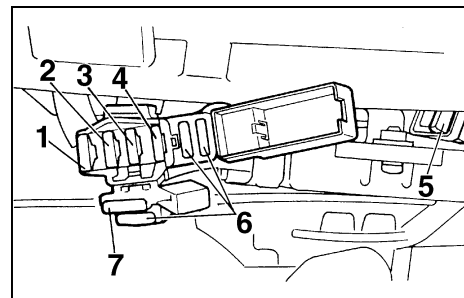
1. Fuse box (× 2)

EAU01110*

Fuse replacement

The fuse boxes are located behind cowling B. (See page 6-6 for removal and installation procedures.)

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



1. Headlight fuse
2. Ignition fuse
3. Clock fuse
4. Hazard light fuse
5. Main fuse
6. Spare fuse (× 3)
7. Signaling system fuse

EC000103

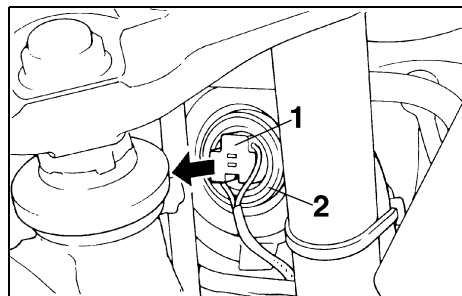
CAUTION:

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.

PERIODIC MAINTENANCE AND MINOR REPAIR

Specified fuses:

Main fuse:	30 A
Headlight fuse:	15 A
Signaling system fuse:	20 A
Hazard light fuse:	10 A
Ignition fuse:	10 A
Clock fuse:	10 A



1. Connector
2. Bulb holder cover

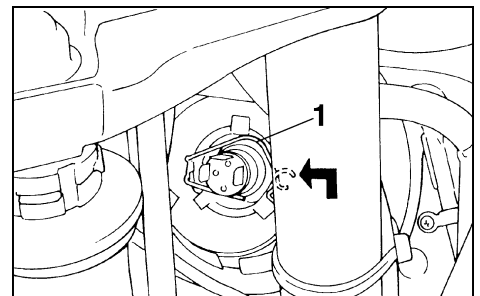
EAU00829

Headlight bulb replacement

This motorcycle is equipped with a quartz bulb headlight.

If a headlight bulb burns out, replace it as follows:

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



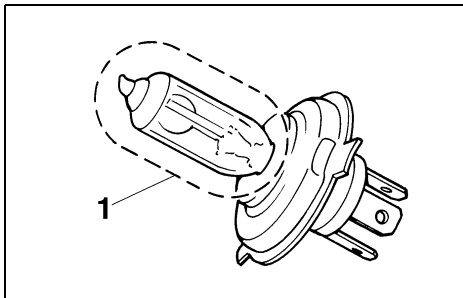
1. Bulb holder
2. Unhook the bulb holder and remove the defective bulb.

EW000119

WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Don't touch

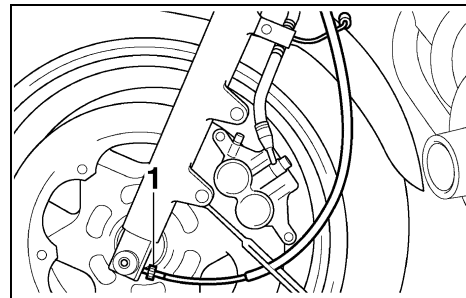
3. Put a new bulb into position and secure it in place with the bulb holder.

EC000105

CAUTION:

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

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



1. Speedometer cable

EAU00869

EW000122

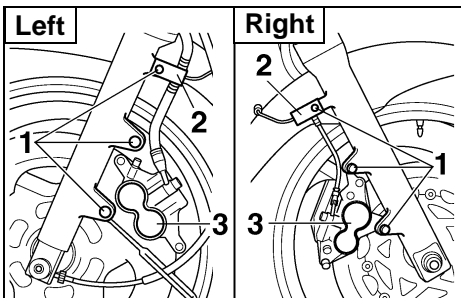
Front wheel removal

⚠ 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. Place the motorcycle on the centerstand.
2. Remove the speedometer cable from the front wheel side.

PERIODIC MAINTENANCE AND MINOR REPAIR

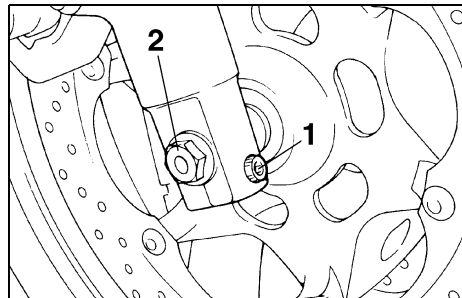


- 1. Bolt (× 3)
- 2. Brake hose holder
- 3. Caliper

3. Remove the brake hose holders and the calipers by removing the bolts.

NOTE: _____

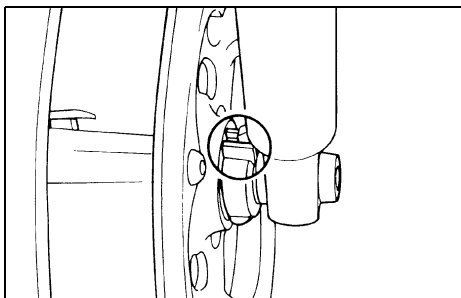
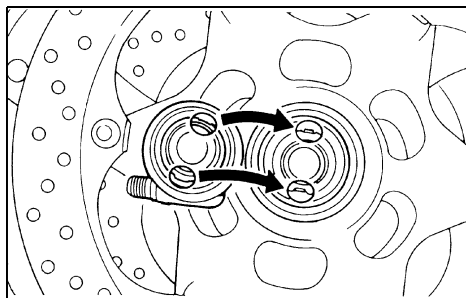
Do not depress the brake lever when the disc and caliper are separated.



- 1. Pinch bolt
- 2. Wheel axle

4. Loosen the pinch bolt and wheel axle.
5. Elevate the front wheel by placing a suitable stand under the engine.
6. Remove the wheel axle. Make sure the motorcycle is properly supported.

PERIODIC MAINTENANCE AND MINOR REPAIR



6. Push down hard on the handlebars several times to check for proper fork operation.
7. Install the speedometer cable.

Front wheel installation

EAU01469

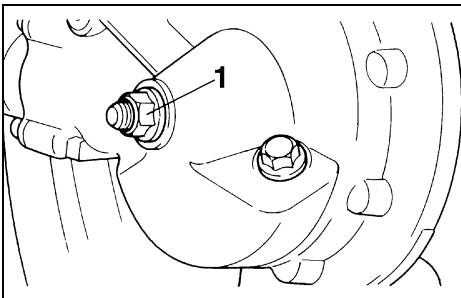
1. Install the speedometer gear unit into the wheel hub. Make sure the wheel hub and the speedometer gear unit are installed with the projections meshed into the slots.
2. Lift up the wheel between the front fork legs. Make sure the slot in the speedometer gear unit fits over the stopper on the front fork outer tube.
3. Install the wheel axle and let the motorcycle down.

4. Install the calipers and caliper bolts. Make sure there is enough gap between the brake pads before installing the calipers onto the brake discs.
5. Tighten the wheel axle, pinch bolt and caliper bolts to the specified torque.

Tightening torque:

Wheel axle:
59 Nm (5.9 m·kg)
Pinch bolt:
19 Nm (1.9 m·kg)
Caliper bolt:
40 Nm (4.0 m·kg)

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Axle nut

Rear wheel removal

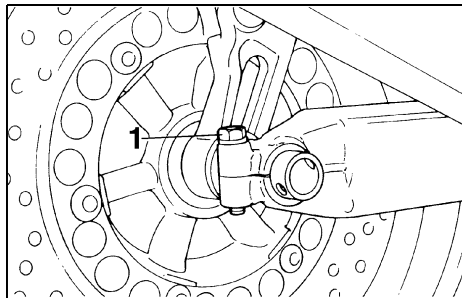
EAU01557

EW000122

⚠ WARNING

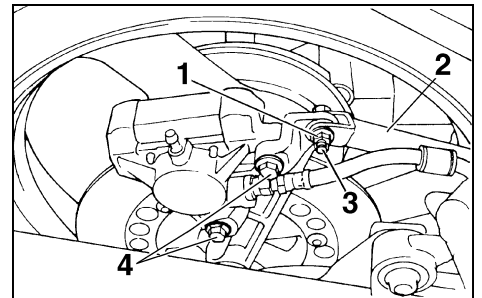
- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so there is no danger of it falling over.

1. Loosen the wheel axle nut and pinch bolt.
2. Place the motorcycle on the centerstand.



1. Pinch bolt

3. Remove the caliper bolts and wheel axle nut.



1. Nut

2. Brake torque rod

3. Cotter pin

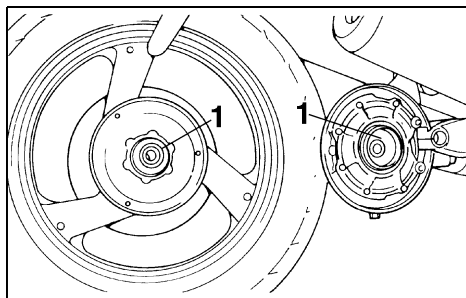
4. Bolt (× 2)

4. Remove the brake torque rod cotter pin, nut and bolt.
5. While supporting the brake caliper, pull out the wheel axle.
6. Move the wheel to the right to separate it from the final gear case, then remove the wheel.

NOTE:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Splines

EAU01558*

Rear wheel installation

1. Apply a light coating of lithium soap base grease to the final gear case splines and the rear wheel hub splines.
2. Install the wheel and the wheel axle.
3. Install the caliper and caliper bolts. Make sure there is enough gap between the brake pads before installing the caliper onto the brake disc.

4. Install the brake torque rod bolt and nut.
5. Install the pinch bolt and tighten it to the specified torque.

Tightening torque:

Pinch bolt:
16 Nm (1.6 m·kg)

6. Take the motorcycle off the centerstand.
7. Tighten the axle nut, caliper bolts and brake torque rod nut to the specified torques.

Axle nut:
105 Nm (10.5 m·kg)
Caliper bolt:
35 Nm (3.5 m·kg)
Brake torque rod nut:
23 Nm (2.3 m·kg)

8. Secure the brake torque rod nut with a new cotter pin.

EAU01008

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.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU01297

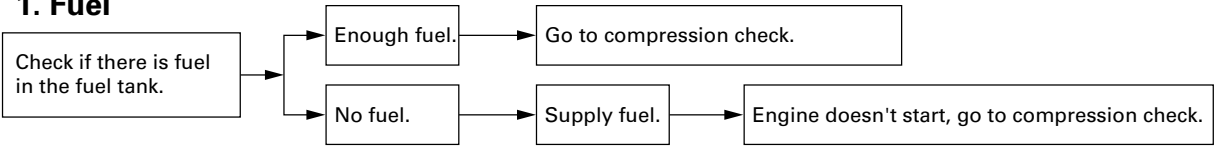
EW000125

Troubleshooting chart

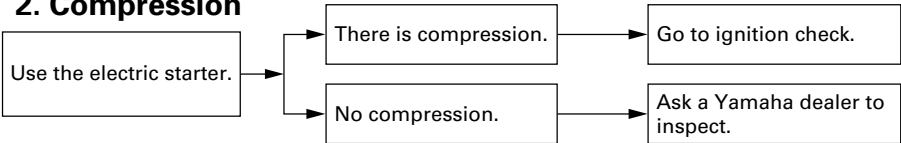
WARNING

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

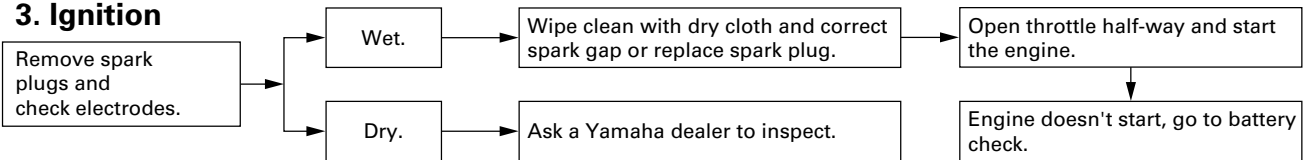
1. Fuel



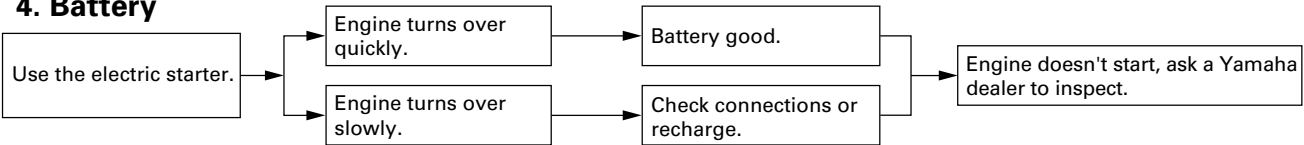
2. Compression



3. Ignition



4. Battery



MOTORCYCLE CARE AND STORAGE

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Storage.....	7-4

MOTORCYCLE CARE AND STORAGE

Care

The exposure of its technology makes a motorcycle charming but also vulnerable. Although high-quality components are used, they are not all rust-resistant. While a rusty exhaust pipe may remain unnoticed on a car, it does look unattractive on a motorcycle. Frequent and proper care, however, will keep your motorcycle looking good, extend its life and maintain its performance. Moreover, the warranty states that the vehicle must be properly taken care of. For all these reasons, it is recommended that you observe the following cleaning and storing precautions.

Before cleaning

1. Cover up the muffler outlets with plastic bags.
2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug caps, are tightly installed.
3. Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such products onto seals, gaskets and wheel axles. Always rinse the dirt and degreaser off with water.

Cleaning

After normal use

Remove dirt with warm water, a neutral detergent and a soft clean sponge, then rinse with plenty of clean water. Use a tooth or bottle brush for hard-to-reach parts. Tougher dirt and insects will come off more easily if the area is covered with a wet cloth for a few minutes before cleaning.

MOTORCYCLE CARE AND STORAGE

ECA00010

CAUTION:

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If you do use such products for hard-to-remove dirt, do not leave it on any longer than instructed, then thoroughly rinse it off with water, immediately dry the area and apply a corrosion protection spray.
- Improper cleaning can damage windshields, cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.
- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel bearings, swingarm bearings, forks and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.
- For motorcycles equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield. Test the product on a small hidden part of the windshield to make sure they do not leave any marks. If the windshield is scratched, use a quality plastic polishing compound after washing.

After riding in the rain, near the sea or on salt-sprayed roads

Since sea salt or salt sprayed on the roads in the winter are extremely corrosive in combination with water, carry out the following steps after each ride in the rain, near the sea or on salt-sprayed roads. (Salt sprayed in the winter may remain on the roads well into spring.)

MOTORCYCLE CARE AND STORAGE

1. Clean your motorcycle with cold water and soap after the engine has cooled down.

ECA00012

CAUTION:

Do not use warm water since it increases the corrosive action of the salt.

2. Be sure to apply a corrosion protection spray on all (even chrome- and nickel-plated) metal surfaces to prevent corrosion.

After cleaning

1. Dry the motorcycle with a chamois or an absorbing cloth.
2. Use a chrome polish to shine chrome, aluminum and stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)
3. To prevent corrosion, it is recommended to apply a corrosion protection spray on all (even chrome- and nickel-plated) metal surfaces.
4. Use spray oil as a universal cleaner to remove any remaining dirt.
5. Touch up minor paint damage caused by stones, etc.
6. Wax all painted surfaces.
7. Let the motorcycle dry completely before storing it or covering it.

WARNING

EWA00001

Make sure that there is no oil or wax on the brakes and tires. If necessary, clean the brake discs and linings with a regular brake disc cleaner or acetone, and wash the tires with warm water and mild soap. Then, carefully test the motorcycle for its braking performance and cornering behavior.

MOTORCYCLE CARE AND STORAGE

ECA00013

CAUTION:

- Apply spray oil and wax sparingly and wipe off any excess.
- Never apply oil or wax on rubber and plastic parts, but treat them with a suitable care product.
- Avoid using abrasive polishing compounds as they wear away the paint.

NOTE:

Consult a Yamaha dealer for advice on what products to use.

Storage

Short-term

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

ECA00014

CAUTION:

- Storing the motorcycle in a poorly ventilated room or covering it with a tarp while it is still wet will allow water and humidity to seep in and cause rust.
- To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.

Long-term

Before storing your motorcycle for several months:

1. Follow all the instructions in the “Care” section of this chapter.
2. Drain the carburetor float chambers by loosening the drain bolts; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
3. Only for motorcycles equipped with a fuel cock which has an “OFF” position: Turn the fuel cock to “OFF”.
4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
5. Perform the following steps to protect the cylinders, piston rings, etc. from corrosion.

MOTORCYCLE CARE AND STORAGE

- a. Remove the spark plug caps and spark plugs.
- b. Pour a teaspoonful of engine oil into each spark plug bore.
- c. Install the spark plug caps onto the spark plugs and place the spark plugs on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
- d. Turn the engine over several times with the starter. (This will coat the cylinder walls with oil.)
- e. Remove the spark plug caps from the spark plugs, install the spark plugs and then the spark plug caps.
6. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand.
7. Check and, if necessary, correct the tire air pressure, then raise the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
8. Cover up the muffler outlets with plastic bags to prevent moisture from entering.
9. Remove the battery and fully charge it. Store it in a cool, dry place and recharge it once a month. Do not store the battery in an excessively cold or warm place (less than 0 °C or more than 30 °C). For more information, see "Battery storage" in the chapter "PERIODIC MAINTENANCE AND MINOR REPAIRS".

NOTE: _____
Make any necessary repairs before storing the motorcycle.

WARNING

When turning the engine over, be sure to ground the spark plug electrodes to prevent damage or injury from sparking.

EWA00003

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SPECIFICATIONS

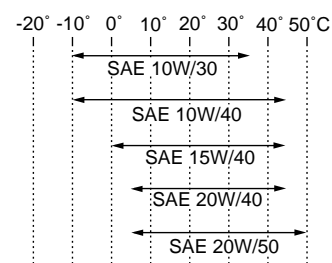
EAU01038

Specifications

Model	XJ900S
Dimensions	
Overall length	2,230 mm
Overall width	750 mm
Overall height	1,300 mm
Seat height	795 mm
Wheelbase	1,505 mm
Ground clearance	130 mm
Minimum turning radius	3,000 mm
Basic weight (with oil and full fuel tank)	265 kg
Engine	
Engine type	Air-cooled 4-stroke, DOHC
Cylinder arrangement	Forward-inclined parallel 4-cylinder
Displacement	892 cm ³
Bore × Stroke	68.5 × 60.5 mm
Compression ratio	10:1
Starting system	Electric starter
Lubrication system	Wet sump

Engine oil

Type



Recommended engine oil classification

API Service SE, SF, SG type or higher

CAUTION:

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

Quantity

Periodic oil change	3.2 L
With oil filter replacement	3.4 L
Total amount	4.4 L

SPECIFICATIONS

Final gear oil

Type	SAE 80 API "GL-4" hypoid gear oil or SAE 80W90 all-purpose hypoid gear oil
Quantity	0.2 L

Air filter

Dry type element

Fuel

Type	Regular unleaded gasoline
Fuel tank capacity	24 L

Carburetor

Type × quantity	BDSR34 × 4
Manufacturer	MIKUNI

Spark plug

Manufacturer/type	NGK / DPR8EA-9 or DENSO / X24EPR-U9
Gap	0.8 ~ 0.9 mm
Clutch type	Wet, multiple-disc

Transmission

Primary reduction system	Spur gear
Primary reduction ratio	1.672
Secondary reduction system	Shaft drive
Secondary reduction ratio	1.278
Transmission type	Constant mesh 5-speed
Operation	Left foot operation

Gear ratio

1st	2.188
2nd	1.500
3rd	1.154
4th	0.933
5th	0.813

Chassis

Frame type	Double cradle
Caster angle	27°
Trail	121 mm

Tire

Front	Type	Tubeless
	Size	120/70-17 58V
	Manufacturer/ model	Dunlop / K505F Metzeler / ME33 Bridgestone / G601
Rear	Type	Tubeless
	Size	150/70-17 69V
	Manufacturer/ model	Dunlop / K505 Metzeler / ME55A Bridgestone / G602

SPECIFICATIONS

Maximum load*	205 kg
Air pressure (cold tire)	
up to 90 kg load*	
Front	225 kPa (2.25 kg/cm ² , 2.25 bar)
Rear	250 kPa (2.50 kg/cm ² , 2.50 bar)
90 kg load ~ maximum load*	
Front	250 kPa (2.50 kg/cm ² , 2.50 bar)
Rear	290 kPa (2.90 kg/cm ² , 2.90 bar)
High speed riding	
Front	250 kPa (2.50 kg/cm ² , 2.50 bar)
Rear	290 kPa (2.90 kg/cm ² , 2.90 bar)

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

Wheels

Front		
Type	Cast	
Size	17 × MT 3.00	
Rear		
Type	Cast	
Size	17 × MT 4.00	

Brakes

Front		
Type	Dual disc brake	
Operation	Right hand operation	
Fluid	DOT 4	

Rear		
Type	Single disc brake	
Operation	Right foot operation	
Fluid	DOT 4	

Suspension

Front		
Type	Telescopic fork	
Rear		
Type	Swingarm (link suspension)	

Shock absorbers

Front	Coil spring / oil damper
Rear	Coil-gas spring / oil damper

Wheel travel

Front	140 mm
Rear	110 mm

Electrical systems

Ignition system	T.C.I. (digital)
Charging system	
Type	A.C. generator
Standard output	13,5 V, 34 A @ 5,000 r/min
Battery	
Type	YTX14-BS
Voltage, capacity	12 V, 12 AH

SPECIFICATIONS

Headlight type Quartz bulb (halogen)

Bulb voltage, wattage × quantity

Headlight	12 V, 60/55 W × 1
Tail/brake light	12 V, 5/21 W × 2
Auxiliary light	12 V, 4 W × 1
Turn signal light	12 V, 21 W × 4
Meter light	12 V, 3.4 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 × 2
Fuel indicator light	12 V, 3.4 W × 1

Fuses

Main fuse	30 A
Signaling system fuse	20 A
Headlight fuse	15 A
Hazard light fuse	10 A
Ignition fuse	10 A
Clock fuse	10 A

SPECIFICATIONS

EAU01064

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	×	0.03937	=	0.08 in

CONVERSION TABLE

METRIC TO IMPERIAL			
	Metric unit	Multiplier	Imperial unit
Torque	m·kg	7.233	ft·lb
	m·kg	86.794	in·lb
	cm·kg	0.0723	ft·lb
	cm·kg	0.8679	in·lb
Weight	kg	2.205	lb
	g	0.03527	oz
Speed	km/hr	0.6214	mph
Distance	km	0.6214	mi
	m	3.281	ft
	m	1.094	yd
	cm	0.3937	in
	mm	0.03937	in
Volume / Capacity	cc (cm ³)	0.03527	oz (IMP liq.)
	cc (cm ³)	0.06102	cu-in
	lt (liter)	0.8799	qt (IMP liq.)
	lt (liter)	0.2199	gal (IMP liq.)
Misc.	kg/mm	55.997	lb/in
	kg/cm ²	14.2234	psi (lb/in ²)
	Centigrade (°C)	9/5 + 32	Fahrenheit (°F)

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CONSUMER INFORMATION

EAU01039

Identification number records

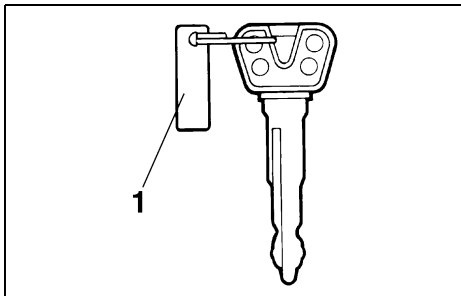
EAU02944

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:

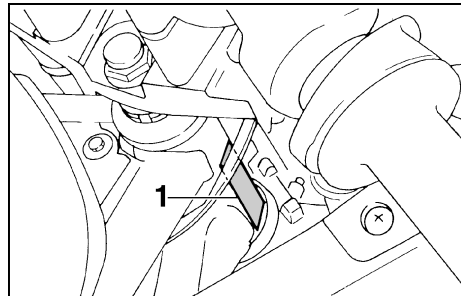


1. Key identification number

EAU01041

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.



1. Vehicle identification number

EAU01043

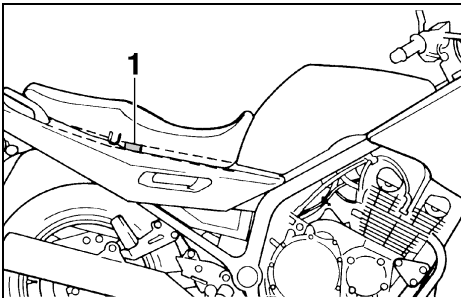
Vehicle identification number

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

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.

CONSUMER INFORMATION



1. Model label

EAU01050

Model label

The model label is affixed to the frame under the seat. (See page 3-15 for seat removal procedures.) Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.

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