



OWNER'S MANUAL

**XVS1100P
XVS1100AP**

5PB-28199-21

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Congratulations on your purchase of the Yamaha XVS1100/XVS1100A. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

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

IMPORTANT MANUAL INFORMATION

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



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



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.



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 you have any questions 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

EAU04229

**XVS1100P/XVS1100AP
OWNER'S MANUAL
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MOTORCYCLES ARE SINGLE TRACK VEHICLES THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING THIS MOTORCYCLE

HE OR SHE SHOULD

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

Safe riding

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

Therefore

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

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



SAFETY INFORMATION

1

Protective apparel

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

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

Modifications

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

Loading and accessories

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

Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 200 kg. When loading within this weight limit, keep the following in mind:

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

Accessories

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

Keep the following guidelines in mind, as well as those provided under “Loading” when mounting accessories:

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



SAFETY INFORMATION

1

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

Gasoline and exhaust gas

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



SAFETY INFORMATION

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

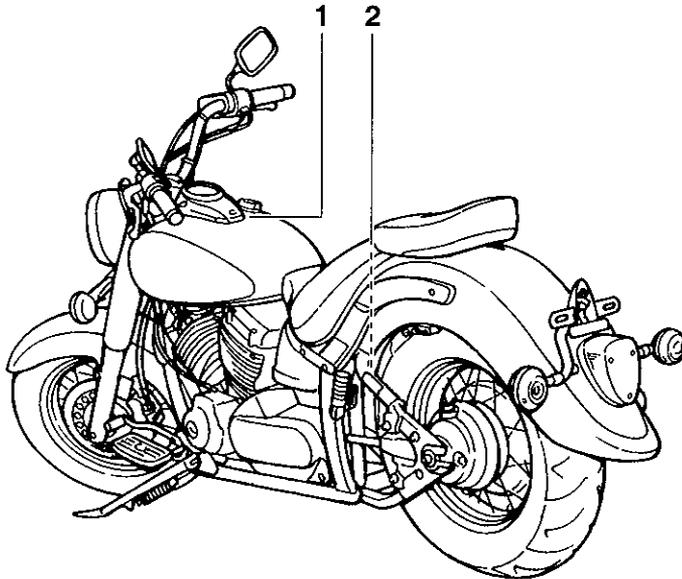
SAFETY INFORMATION

EAU02977

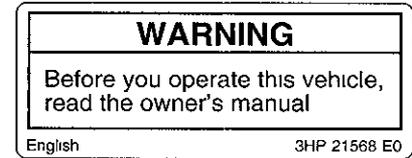
Location of important labels

Please read the following important labels carefully before operating this motorcycle

1



1



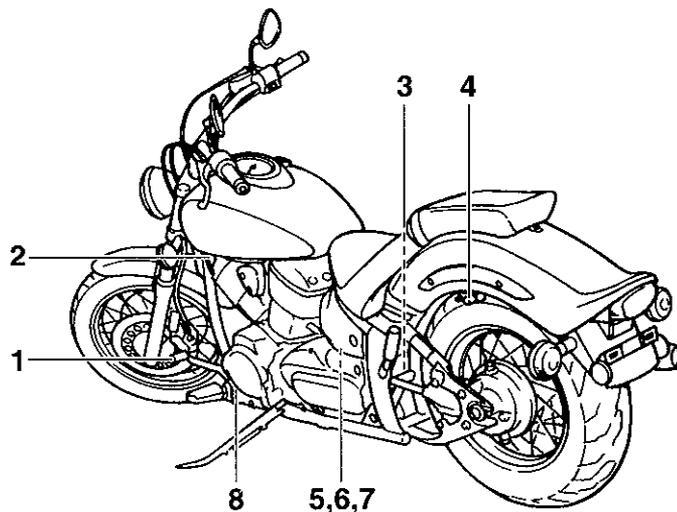
2



DESCRIPTION

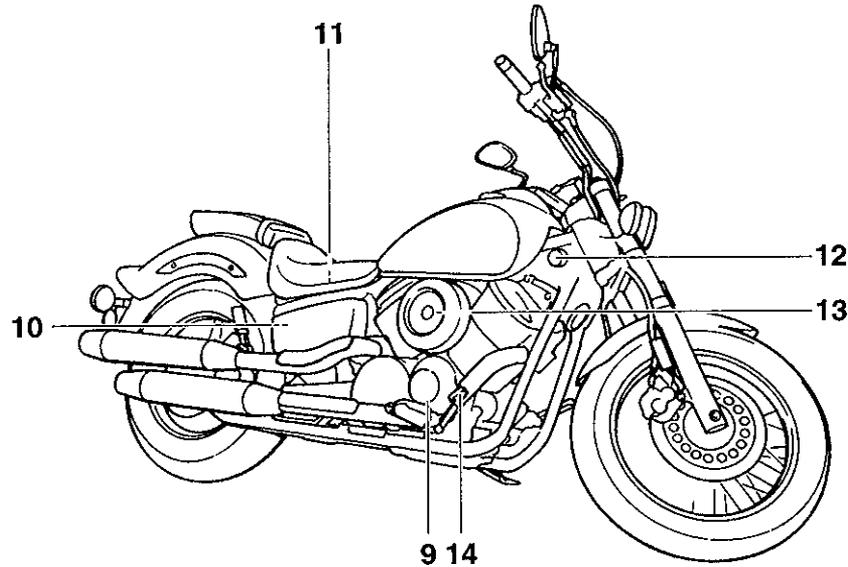
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Left view (XVS1100)



- | | |
|---|-------------|
| 1 Shift pedal | (page 3-5) |
| 2 Fuel cock | (page 3-9) |
| 3 Shock absorber assembly spring preload adjusting ring | (page 3-15) |
| 4 Helmet holder | (page 3-13) |
| 5 Storage compartment | (page 3-14) |
| 6 Owner's tool kit | (page 6-1) |
| 7. Fuse box | (page 6-28) |
| 8 Engine oil level check window | (page 6-8) |

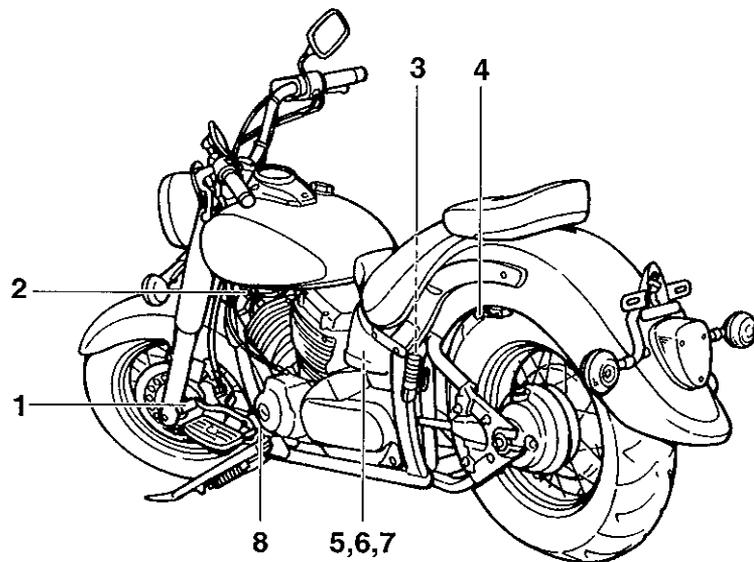
Right view (XVS1100)



- | | |
|------------------------------|-------------|
| 9 Engine oil filter element | (page 6-7) |
| 10 Battery | (page 6-25) |
| 11. Main fuse | (page 6-27) |
| 12 Main switch/steering lock | (page 3-1) |
| 13 Air filter element | (page 6-11) |
| 14 Brake pedal | (page 3-6) |

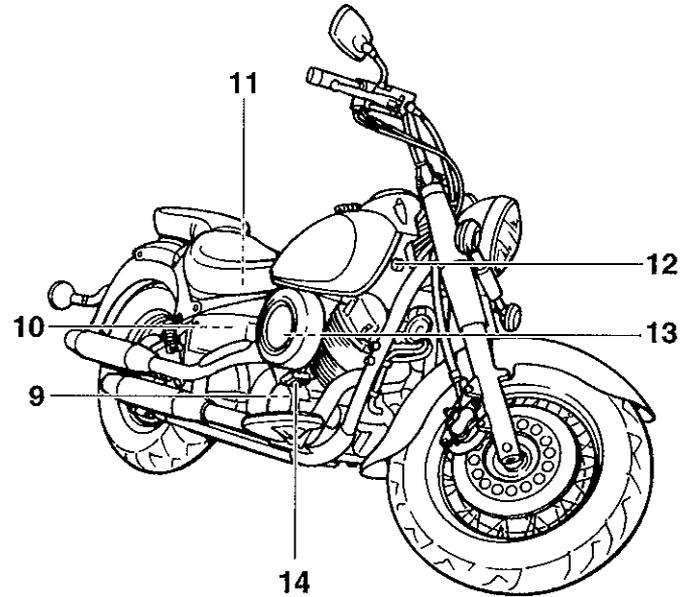
DESCRIPTION

Left view (XVS1100A)



- | | |
|---|-------------|
| 1 Shift pedal | (page 3-5) |
| 2 Fuel cock | (page 3-9) |
| 3 Shock absorber assembly spring preload adjusting ring | (page 3-15) |
| 4 Helmet holder | (page 3-13) |
| 5 Storage compartment | (page 3-14) |
| 6 Owner's tool kit | (page 6-1) |
| 7 Fuse box | (page 6-28) |
| 8 Engine oil level check window | (page 6-8) |

Right view (XVS1100A)

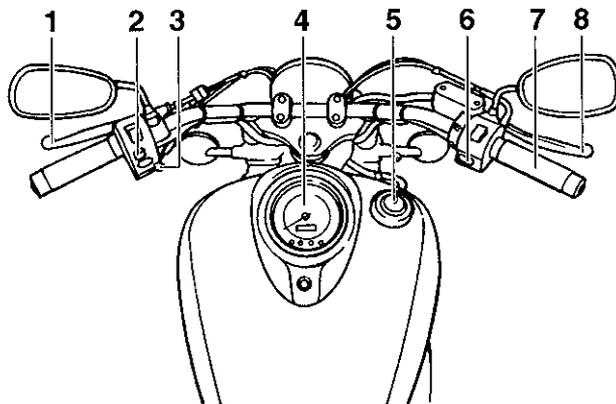


- | | |
|-------------------------------|-------------|
| 9 Engine oil filter element | (page 6-7) |
| 10 Battery | (page 6-25) |
| 11 Main fuse | (page 6-27) |
| 12. Main switch/steering lock | (page 3-1) |
| 13 Air filter element | (page 6-11) |
| 14 Brake pedal | (page 3-6) |

DESCRIPTION

Controls and instruments (XVS1100/XVS1100A)

2

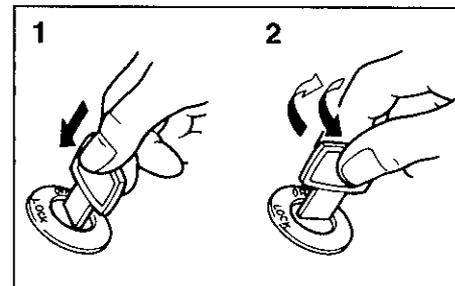
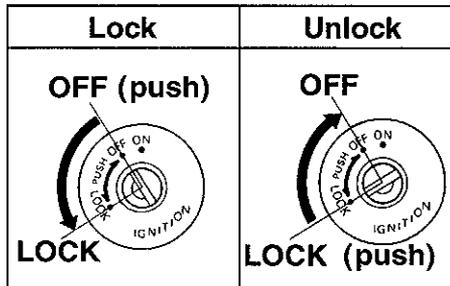
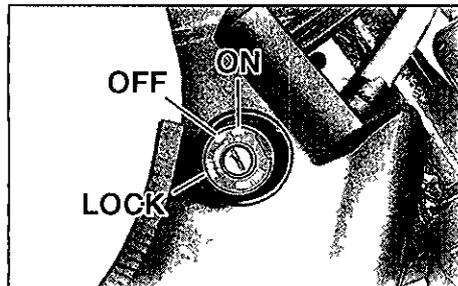


- | | |
|-----------------------------|-------------|
| 1 Clutch lever | (page 3-5) |
| 2 Left handlebar switches | (page 3-3) |
| 3 Starter (choke) lever | (page 3-10) |
| 4 Speedometer unit | (page 3-3) |
| 5 Fuel tank cap | (page 3-7) |
| 6. Right handlebar switches | (page 3-4) |
| 7 Throttle grip | (page 6-13) |
| 8 Brake lever | (page 3-6) |

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3



- 1 Push
- 2 Turn

EAU00029

Main switch/steering lock

The main switch/steering lock controls the ignition and lighting systems, and is used to lock the steering. The various positions are described below.

ON

EAU00030

All electrical systems are supplied with power, and the headlight, meter lighting and taillight come on, and the engine can be started. The key cannot be removed.

OFF

EAU00038

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

EAU00040

LOCK

The steering is locked, and all electrical systems are off. The key can be removed.

To lock the steering

- 1 Turn the handlebars all the way to the left.
- 2 Push the key in from the "OFF" position, and then turn it to "LOCK" while still pushing it.
- 3 Remove the key.

To unlock the steering

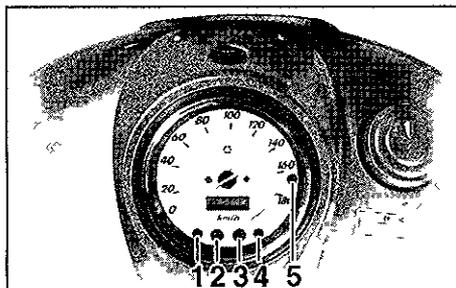
Push the key in, and then turn it to "OFF" while still pushing it.

EW00016

! WARNING

Never turn the key to "OFF" or "LOCK" while the motorcycle is moving, otherwise the electrical systems will be switched off, which may result in loss of control or an accident. Make sure that the motorcycle is stopped before turning the key to "OFF" or "LOCK".

INSTRUMENT AND CONTROL FUNCTIONS



- 1 Oil level warning light “”
- 2 Neutral indicator light “N”
- 3 Turn signal indicator light “ ”
- 4 Engine trouble warning light “”
- 5 High beam indicator light “”

EAU03034

Indicator and warning lights

EAU04248

Oil level warning light “”

This warning light comes on when the engine oil level is low
The electrical circuit of the warning light can be checked according to the following procedure

- 1 Set the engine stop switch to “”

- 2 Turn the key to “ON” If the warning light does not come on, have a Yamaha dealer check the electrical circuit

NOTE:

Even if the oil level is sufficient, the warning light may flicker when riding on a slope or during sudden acceleration or deceleration, but this is not a malfunction

EAU00061

Neutral indicator light “N”

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

EAU00057

Turn signal indicator light “ ”

This indicator light flashes when the turn signal switch is pushed to the left or right

EAU03192

Engine trouble warning light “”

This warning light comes on or flashes when an electrical circuit monitoring the engine is defective When this occurs, have the Yamaha dealer check the self-diagnosis system

The electrical circuit of the warning light can be checked according to the following procedure

- 1 Set the engine stop switch to “”.
- 2 Turn the key to “ON”. If the warning light does not come on, have a Yamaha dealer check the electrical circuit

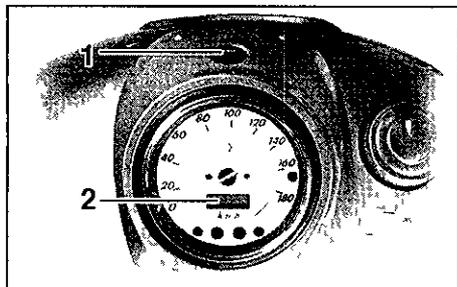
EAU00063

High beam indicator light “”

This indicator light comes on when the high beam of the headlight is switched on

INSTRUMENT AND CONTROL FUNCTIONS

3



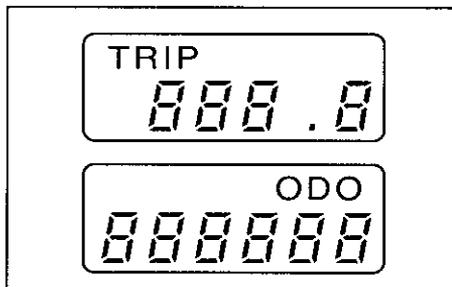
- 1 "TRIP" button
- 2 Odometer/tripmeter

EAU03193

Speedometer unit

The speedometer unit is equipped with a digital odometer and a tripmeter. The speedometer shows riding speed. The odometer shows the total distance traveled. The tripmeter shows the distance traveled since it was last set to zero.

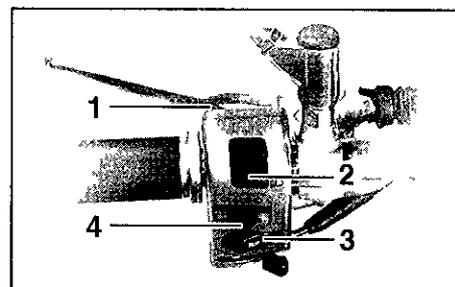
Pushing the "TRIP" button switches the display between the odometer mode "ODO" and the tripmeter mode "TRIP".



To reset the tripmeter, select it by pushing the "TRIP" button, and then push the "TRIP" button again and hold it down for at least one second. The tripmeter can be used to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.

NOTE:

This motorcycle is not equipped with a tachometer, however, it has a built-in speed limiter, which prevents the engine speed from exceeding approximately 6,800 r/min and the vehicle speed from exceeding approximately 175 km/h.



- 1 Pass switch "☰"
- 2 Dimmer switch "☰/☷"
- 3 Horn switch "🔊"
- 4 Turn signal switch "↶/↷"

EAU00118

Handlebar switches

EAU00119

Pass switch "☰"

Press this switch to flash the headlight.

EAU03888

Dimmer switch "☰/☷"

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

EAU00129

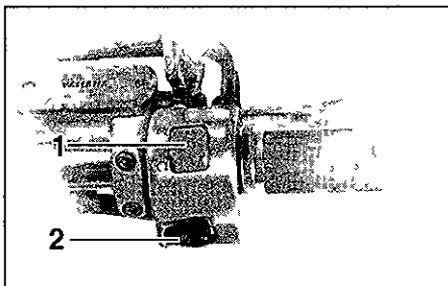
Horn switch "🔊"

Press this switch to sound the horn.

Turn signal switch “ / ”

EAU03889

To signal a right-hand turn, push this switch to “” To signal a left-hand turn, push this switch to “” When released, the switch returns to the center position To cancel the turn signal lights, push the switch in after it has returned to the center position



- 1 Engine stop switch “/”
- 2 Start switch “”

Engine stop switch “/”

EAU03890

Set this switch to “” before starting the engine Set this switch to “” to stop the engine in case of an emergency, such as when the motorcycle overturns or when the throttle cable is stuck

Start switch “”

EAU00143

Push this switch to crank the engine with the starter

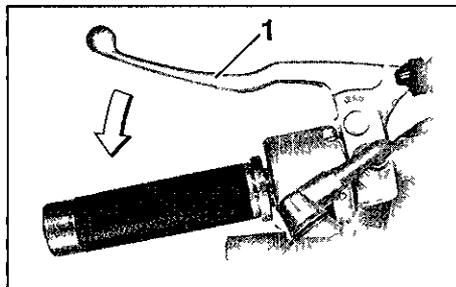
EC000005

CAUTION:

See page 5-1 for starting instructions prior to starting the engine.

INSTRUMENT AND CONTROL FUNCTIONS

3



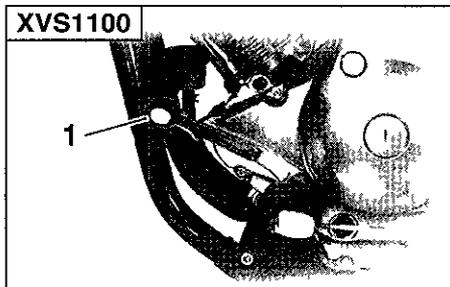
1 Clutch lever

EAU00152

Clutch lever

The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.

The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-19 for an explanation of the ignition circuit cut-off system.)

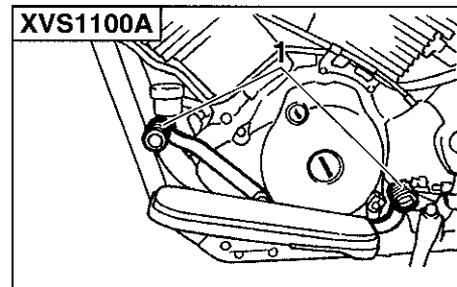


1 Shift pedal

EAU00157

Shift pedal (XVS1100)

The shift pedal is located on the left side of the engine and is used in combination with the clutch lever when shifting the gears of the 5-speed constant-mesh transmission equipped on this motorcycle.



1 Shift pedal

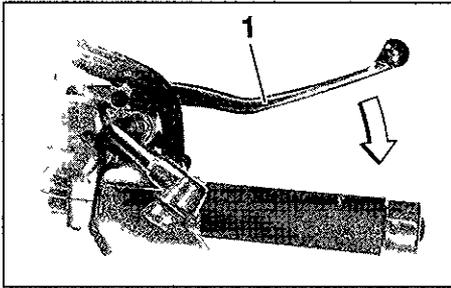
EAU01215

Shift pedal (XVS1100A)

The shift pedal is located on the left side of the engine and is used in combination with the clutch lever when shifting the gears of the 5-speed constant-mesh transmission equipped on this motorcycle.

NOTE: _____
Use your toes or heel to shift up and your toes to shift down

INSTRUMENT AND CONTROL FUNCTIONS

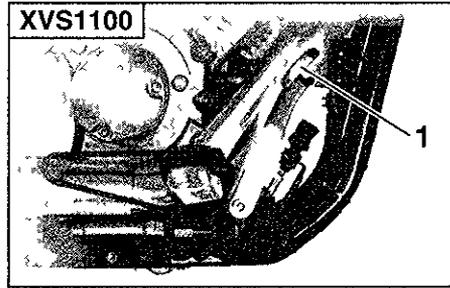


1 Brake lever

EAU00158

Brake lever

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

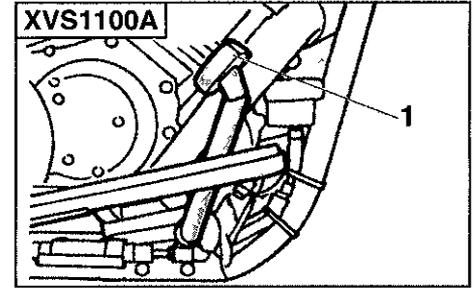


1 Brake pedal

EAU00162

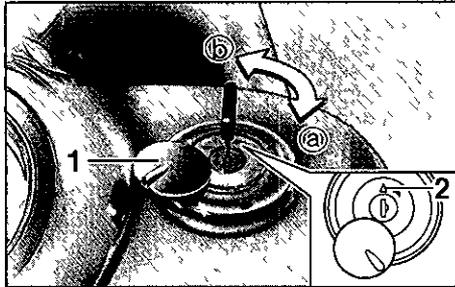
Brake pedal

The brake pedal is on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal.



1 Brake pedal

INSTRUMENT AND CONTROL FUNCTIONS



3

- 1 Fuel tank cap lock cover
- 2 \triangle mark
 - a Unlock
 - b Lock

EAU02917

Fuel tank cap

To remove the fuel tank cap

Slide the lock cover open, insert the key into the lock, and then turn it 1/4 turn clockwise. The lock will be released and the fuel tank cap can be removed.

To install the fuel tank cap

- 1 Insert the fuel tank cap into the tank opening with the key inserted in the lock and with the " \triangle " mark facing forward.

- 2 Turn the key counterclockwise to the original position, remove it, and then close the lock cover.

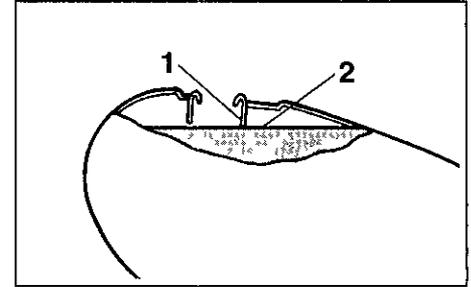
NOTE:

The fuel tank cap cannot be installed unless the key is in the lock. In addition, the key cannot be removed if the cap is not properly installed and locked.

EW000024

! WARNING

Make sure that the fuel tank cap is properly installed before riding.



- 1 Fuel tank filler tube
- 2 Fuel level

EAU03753

Fuel

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

EW000130

! WARNING

- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- Avoid spilling fuel on the hot engine.

INSTRUMENT AND CONTROL FUNCTIONS

EAU00185

CAUTION:

Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

EAU04203

Recommended fuel:
UNLEADED GASOLINE ONLY
Fuel tank capacity
Total amount
17 L
Reserve amount.
4.5 L

ECA00102

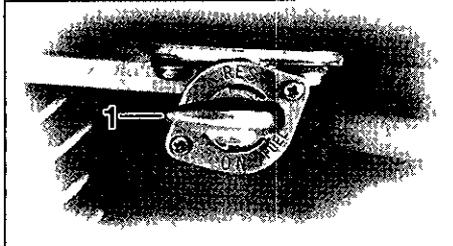
CAUTION:

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

Your Yamaha engine has been designed to use regular unleaded gasoline with a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

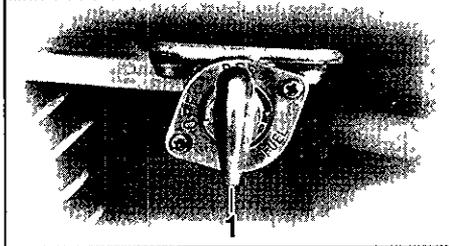
INSTRUMENT AND CONTROL FUNCTIONS

OFF: closed position



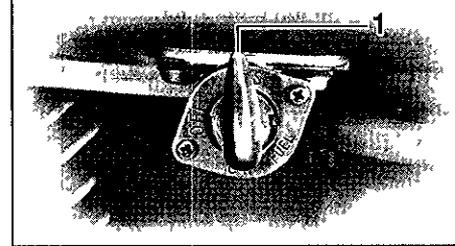
1 Pointed end positioned over "OFF"

ON: normal position



1 Pointed end positioned over "ON"

RES: reserve position



1 Pointed end positioned over "RES"

3

Fuel cock

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

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

OFF

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

EAU02969

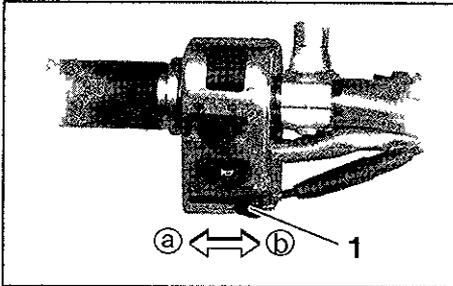
ON

With the fuel cock lever in this position, fuel flows to the carburetors. Turn the fuel cock lever to this position when starting the engine and riding

RES

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

ECA00038



CAUTION

Do not use the starter (choke) for more than 3 minutes as the exhaust pipe may discolor from excessive heat. In addition, extended use of the starter (choke) will cause after-burning. If this occurs, turn off the starter (choke).

1 Starter (choke) lever “|↔|”

EAU02973

Starter (choke) lever “|↔|”

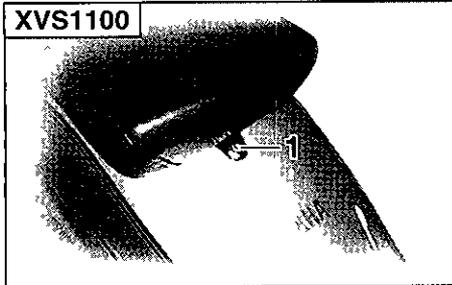
Starting a cold engine requires a richer air-fuel mixture, which is supplied by the starter (choke).

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

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

INSTRUMENT AND CONTROL FUNCTIONS

3



1 Nut

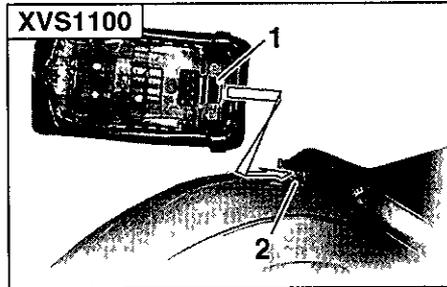
EAU01710

Seats (XVS1100)

Passenger seat

To remove the passenger seat

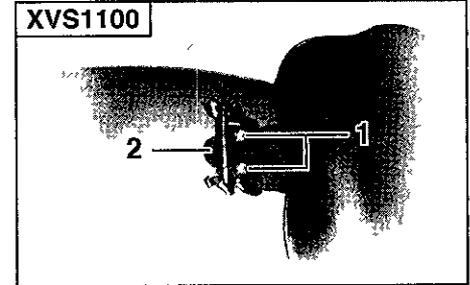
Remove the nut, and then pull the passenger seat up



1 Projection
2 Seat holder

To install the passenger seat

Insert the projection on the front of the passenger seat into the seat holder as shown, place the seat in the original position, and then install the nut



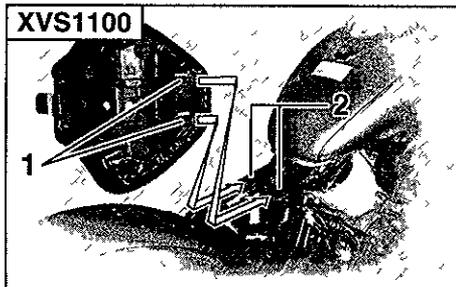
1 Bolt (x 2)
2 Bracket

Rider seat

To remove the rider seat

- 1 Remove the passenger seat
- 2 Remove the bolts and bracket, and then pull the rider seat up

INSTRUMENT AND CONTROL FUNCTIONS

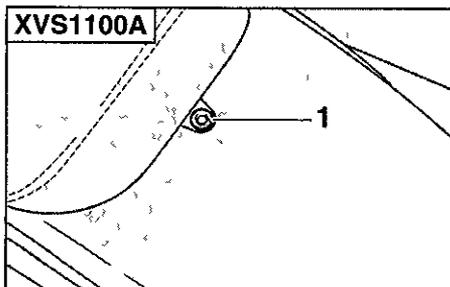


- 1 Projection (x 2)
- 2 Seat holder (x 2)

To install the rider seat

- 1 Insert the projections on the front of the rider seat into the seat holders as shown, and then place the seat in the original position
- 2 Install the removed bracket and bolts
- 3 Install the passenger seat.

NOTE: _____
Make sure that the seats are properly secured before riding.



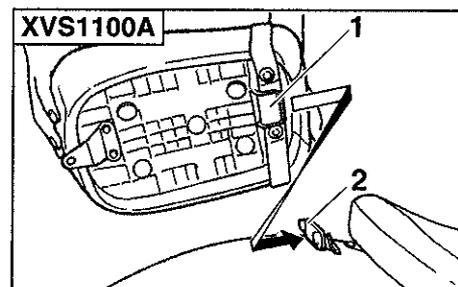
- 1 Bolt

Seats (XVS1100A)

Passenger seat

To remove the passenger seat

Remove the bolt, and then pull the passenger seat up.



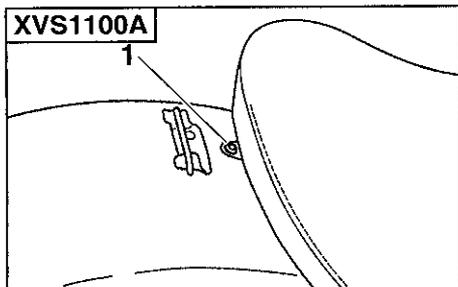
- 1 Projection
- 2 Seat holder

To install the passenger seat

Insert the projection on the front of the passenger seat into the holder as shown, place the seat in the original position, and then install the bolt

INSTRUMENT AND CONTROL FUNCTIONS

3

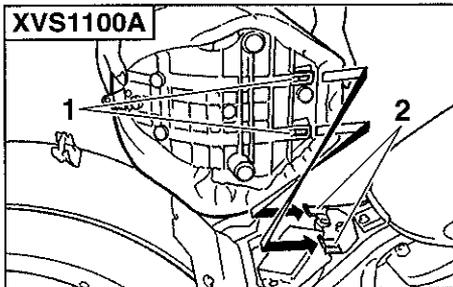


1 Bolt

Rider seat

To remove the rider seat

- 1 Remove the passenger seat
- 2 Remove the bolt, and then pull the rider seat up



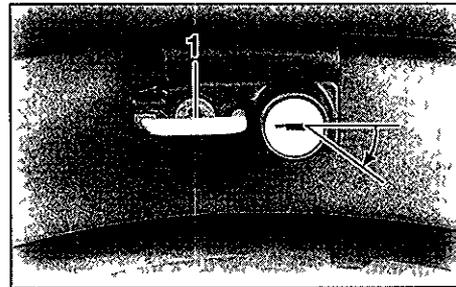
1 Projection (x 2)
2 Seat holder (x 2)

To install the rider seat

- 1 Insert the projections on the front of the rider seat into the holders as shown, place the seat in the original position, and then install the bolt
- 2 Install the passenger seat.

NOTE:

Make sure that the seats are properly secured before riding



1 Helmet holder

EAU00260

Helmet holder

To open the helmet holder, insert the key into the lock, and then turn the key as shown

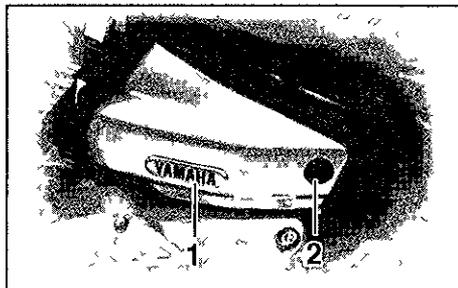
To lock the helmet holder, place it in the original position, and then remove the key

EW000030

WARNING

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

INSTRUMENT AND CONTROL FUNCTIONS

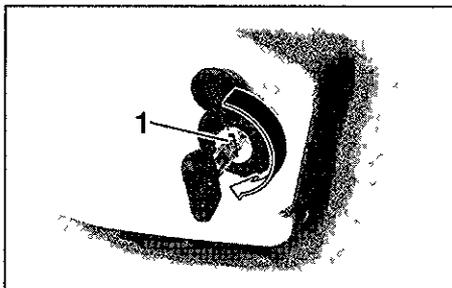


- 1 Storage compartment cover
- 2 Storage compartment lock cover

EAU01869

Storage compartment

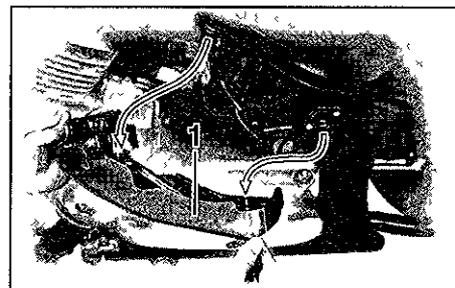
The storage compartment is located on the left side of the motorcycle



- 1 Storage compartment lock

To open the storage compartment

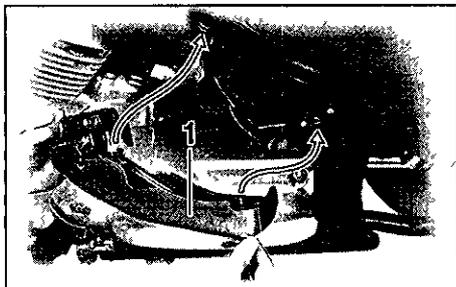
- 1 Slide the lock cover open, insert the key into the lock, and then turn it clockwise



- 1 Storage compartment cover

2. Pull the storage compartment cover out as shown.

INSTRUMENT AND CONTROL FUNCTIONS



1 Storage compartment cover

To close the storage compartment

- 1 Place the storage compartment cover in its original position as shown
- 2 Turn the key counterclockwise, remove it, and then close the lock cover

Adjusting the shock absorber assembly

EAU03194

The shock absorber assembly is located under the rider seat and is equipped with a spring preload adjusting ring.

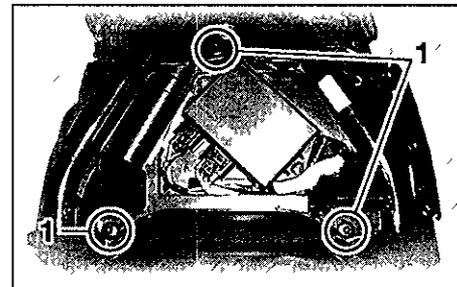
EC000015

CAUTION

Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings.

Adjust the spring preload as follows

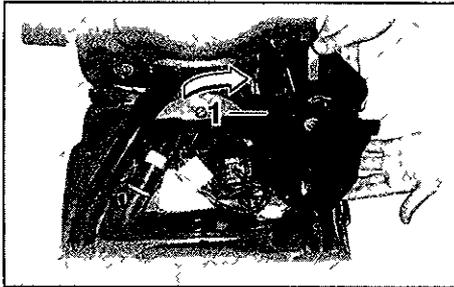
1. Remove the rider seat. (See page 3-11 [XVS1100] or 3-13 [XVS1100A] for rider seat removal and installation procedures)



1 Quick fastener (x 3)

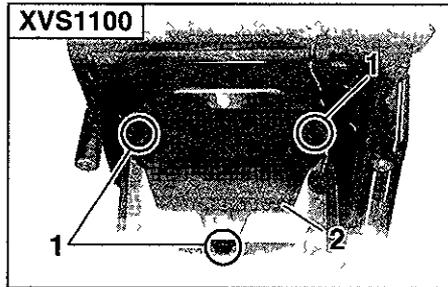
- 2 Remove each quick fastener from the ignitor unit panel by pushing the center in with a screwdriver, then pulling the fastener out

INSTRUMENT AND CONTROL FUNCTIONS



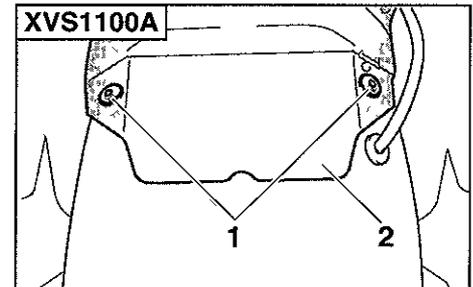
1 Ignitor unit panel

- 3 Pull the ignitor unit panel out to the right.



1 Quick fastener (x 3)
2 Mudguard

4. Remove the mudguard by removing each quick fastener

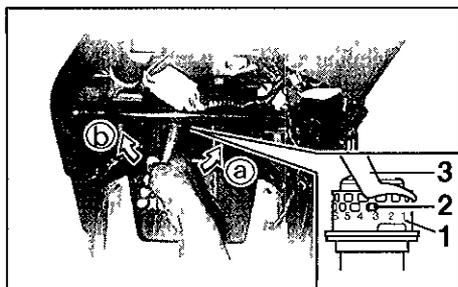


1 Quick fastener (x 2)
2 Mudguard

INSTRUMENT AND CONTROL FUNCTIONS

EAU00315

3

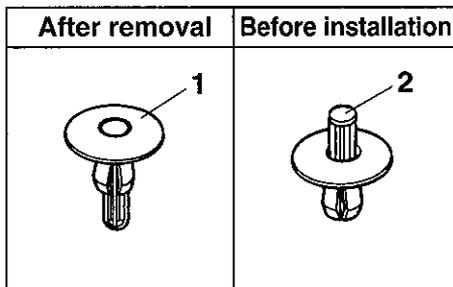


- 1 Spring preload adjusting ring
- 2 Position indicator
- 3 Special wrench

- 5 To increase the spring preload and thereby harden the suspension, turn the adjusting ring in direction (a) To decrease the spring preload and thereby soften the suspension, turn the adjusting ring in direction (b)

NOTE:

- Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber
- Use the special wrench included in the owner's tool kit to make the adjustment



- 1 Quick fastener
- 2 Pin

	Setting
Minimum (soft)	1
Standard	3
Maximum (hard)	7

- 6 Install the mudguard and ignitor unit panel by installing the quick fasteners

NOTE:

To install a quick fastener, push the pin back so that it will protrude from the fastener head, and then insert the fastener and push the protruding pin in until it is flush with the fastener head

- 7 Install the rider seat

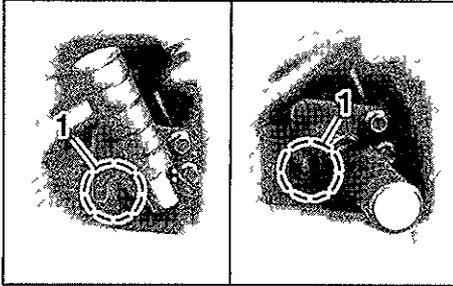
WARNING

This shock absorber contains highly pressurized nitrogen gas. For proper handling, 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 gas cylinder.
- Do not subject the shock absorber to an open flame or other high heat sources, otherwise it may explode due to excessive gas pressure.
- Do not deform or damage the gas cylinder in any way, as this will result in poor damping performance.
- Always have a Yamaha dealer service the shock absorber.

EAU00330

EW000044



1 Luggage strap holder (x 2)

EAU01172

Luggage strap holders

There is a luggage strap holder on each passenger footrest

Sidestand

The sidestand is located on the left side of the frame. Raise the sidestand or lower it with your foot while holding the motorcycle upright.

NOTE:

The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (See further down for an explanation of the ignition circuit cut-off system.)

WARNING

The motorcycle must not be ridden with the sidestand down, or if the sidestand cannot be properly moved up (or does not stay up), otherwise the sidestand could contact the ground and distract the operator, resulting in a possible loss of control. Yamaha's ignition circuit cut-off system has been designed to assist the operator in fulfilling the responsibility of raising the sidestand before starting off. Therefore, check this system regularly as described below and have a Yamaha dealer repair it if it does not function properly.

INSTRUMENT AND CONTROL FUNCTIONS

EAU03720

Ignition circuit cut-off system

The ignition circuit cut-off system (comprising the sidestand switch, clutch switch and neutral switch) has the following functions.

- It prevents starting when the transmission is in gear and the sidestand is up, but the clutch lever is not pulled
- It prevents starting when the transmission is in gear and the clutch lever is pulled, but the sidestand is still down.
- It cuts the running engine when the transmission is in gear and the sidestand is moved down

Periodically check the operation of the ignition circuit cut-off system according to the following procedure

EW000045

WARNING

If a malfunction is noted, have a Yamaha dealer check the system before riding.

INSTRUMENT AND CONTROL FUNCTIONS

With the engine turned off
1 Move the sidestand down
2 Make sure that the engine stop switch is set to "O"
3 Turn the key to "ON"
4 Shift the transmission into the neutral position
5 Push the start switch
Does the engine start?

YES

NO

NOTE:

This check is most reliable if performed with a warmed-up engine

The neutral switch may be defective
The motorcycle should not be ridden until checked by a Yamaha dealer

With the engine still running
6 Move the sidestand up
7 Keep the clutch lever pulled
8 Shift the transmission into gear
9 Move the sidestand down
Does the engine stall?

YES

NO

The sidestand switch may be defective
The motorcycle should not be ridden until checked by a Yamaha dealer

After the engine has stalled
10 Move the sidestand up
11 Keep the clutch lever pulled
12 Push the start switch
Does the engine start?

YES

NO

The clutch switch may be defective
The motorcycle should not be ridden until checked by a Yamaha dealer

The system is OK **The motorcycle can be ridden.**

3

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PRE-OPERATION CHECKS

Pre-operation check list

..

4-1

PRE-OPERATION CHECKS

The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

Pre-operation check list

ITEM	CHECKS	PAGE
Fuel	<ul style="list-style-type: none">• Check fuel level in fuel tank• Refuel if necessary• Check fuel line for leakage	3-7-3 8
Engine oil	<ul style="list-style-type: none">• Check oil level in engine• If necessary, add recommended oil to specified level• Check vehicle for oil leakage	6-7-6-8
Final gear oil	<ul style="list-style-type: none">• Check vehicle for oil leakage	6-9-6-10
Front brake	<ul style="list-style-type: none">• Check operation• If soft or spongy, have Yamaha dealer bleed hydraulic system• Check lever free play• Adjust if necessary• Check fluid level in reservoir• If necessary, add recommended brake fluid to specified level• Check hydraulic system for leakage	6-17, 6-19-6-20
Rear brake	<ul style="list-style-type: none">• Check operation• If soft or spongy, have Yamaha dealer bleed hydraulic system• Check fluid level in reservoir• If necessary, add recommended brake fluid to specified level• Check hydraulic system for leakage	6-18-6-20
Clutch	<ul style="list-style-type: none">• Check operation• Lubricate cable if necessary• Check lever free play• Adjust if necessary	6-16

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Throttle grip	<ul style="list-style-type: none">• Make sure that operation is smooth• Check free play• If necessary, have Yamaha dealer make adjustment or lubricate	6-13, 6-21
Control cables	<ul style="list-style-type: none">• Make sure that operation is smooth• Lubricate if necessary	6-21
Wheels and tires	<ul style="list-style-type: none">• Check for damage• Check tire condition and tread depth• Check air pressure• Correct if necessary	6-13–6-16
Brake and shift pedals	<ul style="list-style-type: none">• Make sure that operation is smooth• Lubricate pedal pivoting points if necessary	6-21
Brake and clutch levers	<ul style="list-style-type: none">• Make sure that operation is smooth• Lubricate lever pivoting points if necessary	6-22
Sidestand	<ul style="list-style-type: none">• Make sure that operation is smooth• Lubricate pivot if necessary	6-22
Chassis fasteners	<ul style="list-style-type: none">• Make sure that all nuts, bolts and screws are properly tightened• Tighten if necessary	—
Instruments, lights, signals and switches	<ul style="list-style-type: none">• Check operation• Correct if necessary	—
Sidestand switch	<ul style="list-style-type: none">• Check operation of ignition circuit cut-off system• If system is defective, have Yamaha dealer check vehicle	3-18

PRE-OPERATION CHECKS

NOTE:

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

EWA00033

 WARNING

If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the motorcycle.

OPERATION AND IMPORTANT RIDING POINTS

Starting and warming up a cold engine ..	. . .	5-1
Starting a warm engine	.	5-3
Shifting . . . . .	. . . . .	5-3
Tips for reducing fuel consumption	.	5-4
Engine break-in	.	5-5
Parking	...	5-5

EAU00373

⚠ WARNING

- Become thoroughly familiar with all operating controls and their functions before riding. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation.
- Before starting out, make sure that the sidestand is up. If the sidestand is not raised completely, it could contact the ground and distract the operator, resulting in a possible loss of control.

Starting and warming up a cold engine

EAU04215*

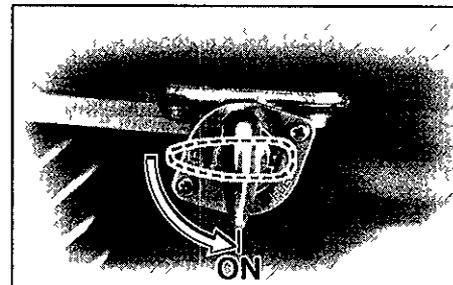
In order for the ignition circuit cut-off system to enable starting, one of the following conditions must be met:

- The transmission is in the neutral position.
- The transmission is in gear with the clutch lever pulled and the sidestand up.

EW000054

⚠ WARNING

- Before starting the engine, check the function of the ignition circuit cut-off system according to the procedure described on page 3-20.
- Never ride with the sidestand down.

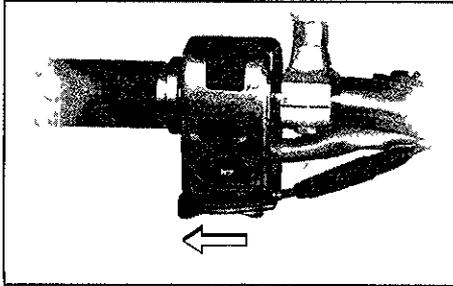


- 1 Turn the fuel cock lever to "ON".
2. Turn the key to "ON" and make sure that the engine stop switch is set to "○".
3. Shift the transmission into the neutral position.

NOTE:

When the transmission is in the neutral position, the neutral indicator light should be on, otherwise have a Yamaha dealer check the electrical circuit.

OPERATION AND IMPORTANT RIDING POINTS



4. Turn the starter (choke) on and completely close the throttle (See page 3-10 for starter (choke) operation)
- 5 Start the engine by pushing the start switch

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

ECA00103

CAUTION

- The oil level warning light should come on when the key is turned to "ON", and then go off after two to three seconds. If the oil level warning light flickers or remains on after starting, immediately stop the engine, and then check the engine oil level and the vehicle for oil leakage. If necessary, add engine oil, and then check the warning light again. If the warning light does not come on when turning the key to "ON", or if it does not go off after starting the engine with sufficient engine oil, have a Yamaha dealer check the electrical circuit.
- The engine trouble warning light should also come on when the key is turned to "ON". If the warning light does not come on when the key is turned to "ON", flashes or remains on after

starting the engine, have a Yamaha dealer check the electrical circuit.

- 6 After starting the engine, move the starter (choke) lever back halfway

ECA00055

CAUTION

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

- 7 When the engine is warm, turn the starter (choke) off

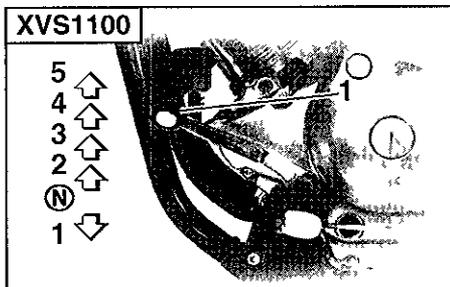
NOTE: _____
The engine is warm when it responds normally to the throttle with the starter (choke) turned off.

OPERATION AND IMPORTANT RIDING POINTS

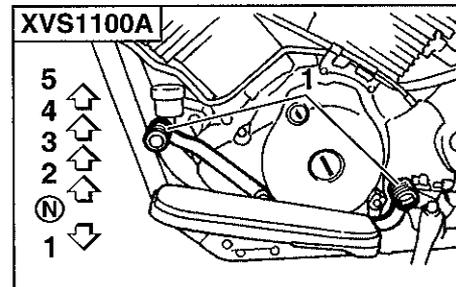
EAU01258

Starting a warm engine

Follow the same procedure as for starting a cold engine with the exception that the starter (choke) is not required when the engine is warm



1 Shift pedal
N Neutral position



1 Shift pedal
N Neutral position

EAU00423

Shifting

Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc

The gear positions are shown in the illustration

NOTE:

To shift the transmission into the neutral position, press the shift pedal down repeatedly until it reaches the end of its travel, and then slightly raise it.

EC000048

CAUTION:

- Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.
- Always use the clutch while changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of forced shifting.

EAU00424

Tips for reducing fuel consumption

Fuel consumption depends largely on your riding style. Consider the following tips to reduce fuel consumption:

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

OPERATION AND IMPORTANT RIDING POINTS

EAU01128

Engine break-in

There is never a more important period in the life of your engine than the period between 0 and 1,600 km. For this reason, you should read the following material carefully.

Since the engine is brand new, do not put an excessive load on it for the first 1,600 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 that might result in engine overheating must be avoided.

0–1,000 km

Avoid prolonged operation above 1/3 throttle.

1,000–1,600 km

Avoid prolonged operation above 1/2 throttle.

EAU01171*

EC000056

CAUTION

After 1,000 km of operation, the engine oil and final gear oil must be changed, and the oil filter element replaced.

1,600 km and beyond

The vehicle can now be operated normally.

EC000049

CAUTION

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

EAU00457

Parking

When parking, stop the engine, remove the key from the main switch, and then turn the fuel cock lever to "OFF".

EW000058

WARNING

- Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them.
- Do not park on a slope or on soft ground, otherwise the motorcycle may overturn.

PERIODIC MAINTENANCE AND MINOR REPAIR

Owner's tool kit	6-1	Checking and lubricating the cables	6-22
Periodic maintenance and lubrication chart	6-2	Checking and lubricating the throttle grip and cable	6-22
Removing and installing the panel	6-5	Checking and lubricating the brake and shift pedals ..	6-23
Checking the spark plugs	6-6	Checking and lubricating the brake and clutch levers	6-23
Engine oil	6-7	Checking and lubricating the sidestand	6-23
Final gear oil	6-9	Checking the front fork ..	6-24
Cleaning the air filter element	6-11	Checking the steering	6-25
Adjusting the carburetors	6-12	Checking the wheel bearings	6-25
Adjusting the engine idling speed	6-12	Battery	6-26
Adjusting the throttle cable free play	6-13	Replacing the fuses	6-28
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Adjusting the brake lever free play	6-17	Troubleshooting chart	6-33
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Checking the brake fluid level	6-21		
Changing the brake fluid	6-22		

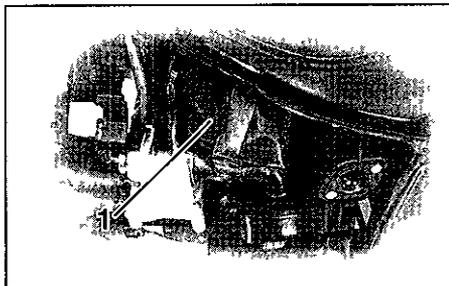
EAU00464

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages. The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions. However, **DEPENDING ON THE WEATHER, TERRAIN, GEOGRAPHICAL LOCATION, AND INDIVIDUAL USE, THE MAINTENANCE INTERVALS MAY NEED TO BE SHORTENED.**

EW000060

! WARNING

If you are not familiar with motorcycle maintenance work, have a Yamaha dealer do it for you.



1 Owner's tool kit

EAU01129

Owner's tool kit

The owner's tool kit is located inside the storage compartment (See page 3-14 for storage compartment opening procedures.)

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

NOTE:

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

EW000063

! WARNING

Modifications not approved by Yamaha may cause loss of performance and render the vehicle unsafe for use. Consult a Yamaha dealer before attempting any changes.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU03685

Periodic maintenance and lubrication chart

- NOTE:**
- The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.
 - From 50,000 km, repeat the maintenance intervals starting from 10,000 km
 - Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (× 1,000 km)					ANNUAL CHECK
			1	10	20	30	40	
1	* Fuel line	• Check fuel hoses for cracks or damage		√	√	√	√	√
2	* Fuel filter	• Check condition			√		√	
3	Spark plugs	• Check condition		√		√		
		• Clean and regap						
		• Replace			√		√	
4	* Valves	• Check valve clearance • Adjust		√	√	√	√	
5	Air filter element	• Clean		√		√		
		• Replace			√		√	
6	Clutch	• Check operation • Adjust	√	√	√	√	√	
7	* Front brake	• Check operation, fluid level and vehicle for fluid leakage (See NOTE on page 6-4)	√	√	√	√	√	√
		• Replace brake pads	Whenever worn to the limit					
8	* Rear brake	• Check operation, fluid level and vehicle for fluid leakage (See NOTE on page 6-4)	√	√	√	√	√	√
		• Replace brake pads	Whenever worn to the limit					
9	* Brake hoses	• Check for cracks or damage		√	√	√	√	√
		• Replace (See NOTE on page 6-4)	Every 4 years					

PERIODIC MAINTENANCE AND MINOR REPAIR

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (× 1,000 km)					ANNUAL CHECK
			1	10	20	30	40	
10	* Wheels	<ul style="list-style-type: none"> • Check runout, spoke tightness and for damage • Tighten spokes if necessary 		√	√	√	√	
11	* Tires	<ul style="list-style-type: none"> • Check tread depth and for damage • Replace if necessary • Check air pressure • Correct if necessary 		√	√	√	√	√
12	* Wheel bearings	<ul style="list-style-type: none"> • Check bearing for looseness or damage 		√	√	√	√	
13	* Swingarm	<ul style="list-style-type: none"> • Check operation and for excessive play • Lubricate with lithium-soap-based grease 		√	√	√	√	
			Every 50,000 km					
14	* Steering bearings	<ul style="list-style-type: none"> • Check bearing play and steering for roughness • Lubricate with lithium-soap-based grease 	√	√	√	√	√	
			Every 20,000 km					
15	* Chassis fasteners	<ul style="list-style-type: none"> • Make sure that all nuts, bolts and screws are properly tightened 		√	√	√	√	√
16	Sidestand	<ul style="list-style-type: none"> • Check operation • Lubricate 		√	√	√	√	√
17	* Sidestand switch	<ul style="list-style-type: none"> • Check operation 	√	√	√	√	√	√
18	* Front fork	<ul style="list-style-type: none"> • Check operation and for oil leakage 		√	√	√	√	
19	* Shock absorber assembly	<ul style="list-style-type: none"> • Check operation and shock absorber for oil leakage 		√	√	√	√	
20	* Rear suspension relay arm and connecting arm pivoting points	<ul style="list-style-type: none"> • Check operation 		√	√	√	√	
21	* Carburetors	<ul style="list-style-type: none"> • Check starter (choke) operation • Adjust engine idling speed and synchronization 	√	√	√	√	√	√
22	Engine oil	<ul style="list-style-type: none"> • Change • Check oil level and vehicle for oil leakage 	√	√	√	√	√	√
23	Engine oil filter element	<ul style="list-style-type: none"> • Replace 	√		√		√	
24	Final gear oil	<ul style="list-style-type: none"> • Check oil level and vehicle for oil leakage • Change 	√	√		√		

PERIODIC MAINTENANCE AND MINOR REPAIR

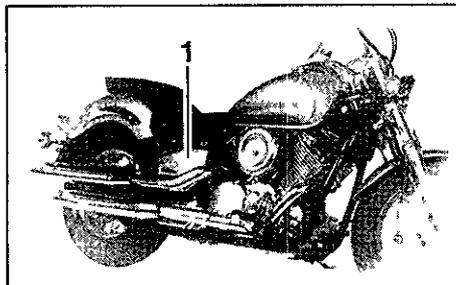
NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING ($\times 1,000$ km)					ANNUAL CHECK
			1	10	20	30	40	
25	* Front and rear brake switches	• Check operation	√	√	√	√	√	√
26	Moving parts and cables	• Lubricate		√	√	√	√	√
27	* Lights, signals and switches	• Check operation • Adjust headlight beam	√	√	√	√	√	√

EAU03884

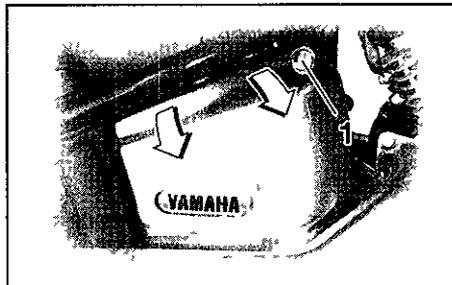
NOTE:

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas
- Hydraulic brake service
 - Regularly check and, if necessary, correct the brake fluid level
 - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged

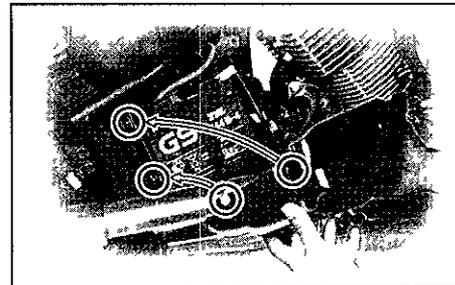
PERIODIC MAINTENANCE AND MINOR REPAIR



1 Panel A



1 Bolt



To install the panel
Place the panel in the original position,
and then install the bolt

EAU01777

Removing and installing the panel

The panel shown above needs to be removed to perform some of the maintenance jobs described in this chapter. Refer to this section each time the panel needs to be removed and installed.

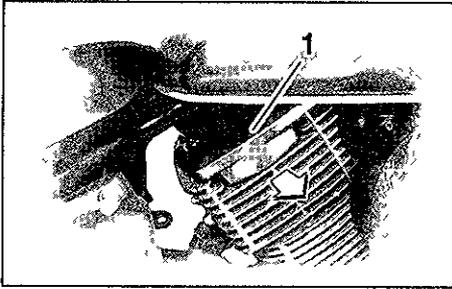
Panel A

To remove the panel

Remove the bolt, and then pull the panel off as shown.

EAU00491

PERIODIC MAINTENANCE AND MINOR REPAIR



1 Spark plug cover

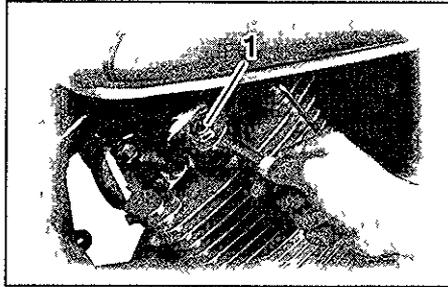
EAU01673

Checking the spark plugs

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

To remove a spark plug

- 1 Remove the appropriate spark plug cover (rear right or front left) by pulling it off as shown
- 2 Remove the spark plug cap



1 Spark plug wrench

- 3 Remove the spark plug as shown, with the spark plug wrench included in the owner's tool kit

To check the spark plugs

- 1 Check that the porcelain insulator around the center electrode on each spark plug is a medium-to-light tan (the ideal color when the motorcycle is ridden normally)
- 2 Check that all spark plugs installed in the engine have the same color

NOTE:

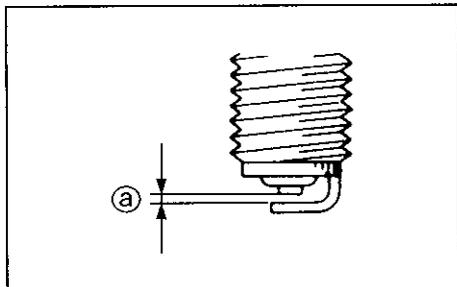
If any spark plug shows a distinctly different color, the engine could be defective. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the motorcycle.

- 3 Check each spark plug for electrode erosion and excessive carbon or other deposits, and replace it if necessary

Specified spark plug
BPR7ES (NGK) or
W22EPR-U (DENSO)

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU04213



a Spark plug gap

To install a spark plug

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

Spark plug gap
0.7–0.8 mm

- 2 Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads
- 3 Install the spark plug with the spark plug wrench, and then tighten it to the specified torque

Tightening torque:
Spark plug:
20 Nm (2.0 m kgf)

NOTE:

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

4. Install the spark plug cap
5. Place the spark plug cover in the original position

Engine oil

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

To check the engine oil level

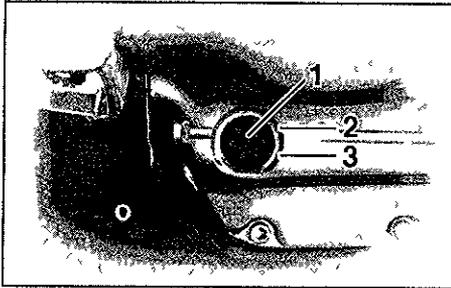
- 1 Place the motorcycle on a level surface and hold it in an upright position

NOTE:

Make sure that the motorcycle is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading.

- 2 Start the engine, warm it up for several minutes, and then turn it off

PERIODIC MAINTENANCE AND MINOR REPAIR

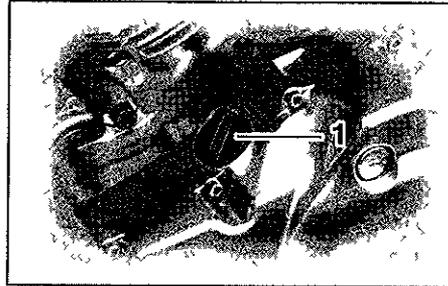


- 1 Engine oil level check window
 - 2 Maximum level mark
 - 3 Minimum level mark
3. Wait a few minutes until the oil settles, and then check the oil level through the check window located at the bottom-left side of the crankcase

NOTE:

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

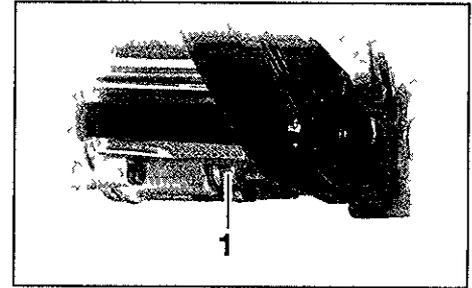
- 4 If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level



- 1 Engine oil filler cap

To change the engine oil

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



- 1 Engine oil drain bolt

4. Install the engine oil drain bolt, and then tighten it to the specified torque

Tightening torque

Engine oil drain bolt:
43 Nm (4.3 m·kgf)

- 5 Add the specified amount of the recommended engine oil, and then install and tighten the oil filler cap

PERIODIC MAINTENANCE AND MINOR REPAIR

Recommended engine oil:

See page 8-1.

Oil quantity:

Periodic oil change:

3.0 L

Total amount (dry engine):

3.6 L

EC000072

CAUTION

- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives with the oil or use oils of a “CD” grade or higher. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.
- Make sure that no foreign material enters the crankcase.

- 6 Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.

NOTE: _____
After the engine is started, the engine oil level warning light should go off if the oil level is sufficient.

EC000067

CAUTION

If the oil level warning light flickers or remains on, immediately turn the engine off and have a Yamaha dealer check the vehicle.

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

NOTE: _____
Have a Yamaha dealer replace the oil filter element when necessary.

EAU04083

Final gear oil

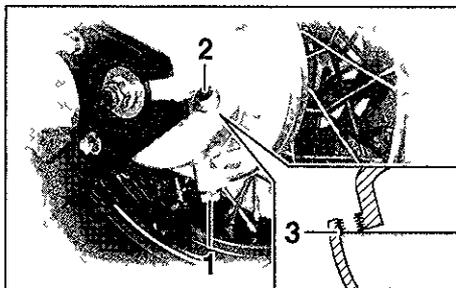
The final gear case must be checked for oil leakage before each ride. If any leakage is found, have a Yamaha dealer check and repair the motorcycle. In addition, the final gear oil level must be checked and the oil changed as follows at the intervals specified in the periodic maintenance and lubrication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

EW000068

WARNING

- Make sure that no foreign material enters the final gear case.
- Make sure that no oil gets on the tire or wheel.

PERIODIC MAINTENANCE AND MINOR REPAIR



- 1 Final gear oil drain bolt
- 2 Final gear oil filler bolt
- 3 Correct oil level

To check the final gear oil level

- 1 Place the motorcycle on a level surface and hold it in an upright position.

NOTE:

- The final gear oil level must be checked on a cold engine
- Make sure that the motorcycle is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading

- 2 Remove the oil filler bolt, and then check the oil level in the final gear case

NOTE:

The oil level should be at the brim of the filler hole

- 3 If the oil is below the brim of the filler hole, add sufficient oil of the recommended type to raise it to the correct level.

To change the final gear oil

- 1 Place an oil pan under the final gear case to collect the used oil
2. Remove the oil filler bolt and drain bolt to drain the oil from the final gear case.
- 3 Install the final gear oil drain bolt, and then tighten it to the specified torque

Tightening torque

Final gear oil drain bolt
23 Nm (2.3 m.kgf)

- 4 Add the recommended final gear oil to the brim of the filler hole

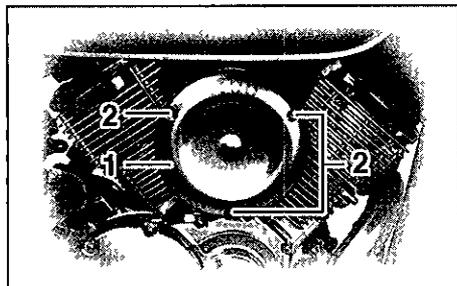
Recommended final gear oil
Hypoid gear oil SAE 80 (API GL4)
or multi-grade hypoid gear oil
SAE 80W-90
Oil quantity.
0.2 L

NOTE:

GL4 is a quality rating. Hypoid gear oils rated GL5 or GL6 may also be used

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

PERIODIC MAINTENANCE AND MINOR REPAIR



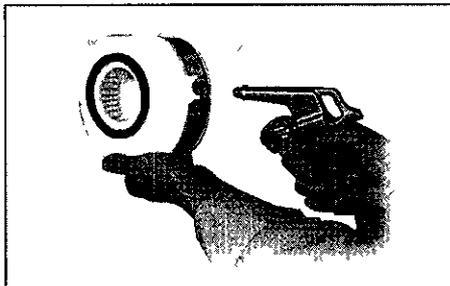
- 1 Air filter case cover
- 2 Screw (x 3)

EAU03195

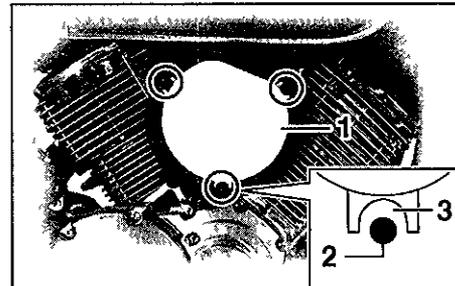
Cleaning the air filter element

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

- 1 Remove the air filter case cover by removing the screws
2. Pull the air filter element out



- 3 Lightly tap the air filter element to remove most of the dust and dirt, and then blow the remaining dirt out with compressed air as shown. If the air filter element is damaged, replace it.



- 1 Air filter element
- 2 Projection
- 3 Slot
- 4 Insert the air filter element into the air filter case as shown

EC000082

CAUTION

- Make sure that the air filter element is properly seated in the air filter case.
- The engine should never be operated without the air filter element installed, otherwise the pistons and/or cylinders may become excessively worn.

- 5 Install the air filter case cover by installing the screws

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00630

Adjusting the carburetors

The carburetors are important parts of the engine and require very sophisticated adjustment. Therefore, most carburetor adjustments should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. The adjustment described in the following section, however, may be serviced by the owner as part of routine maintenance.

EC000095

CAUTION

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

EAU01168

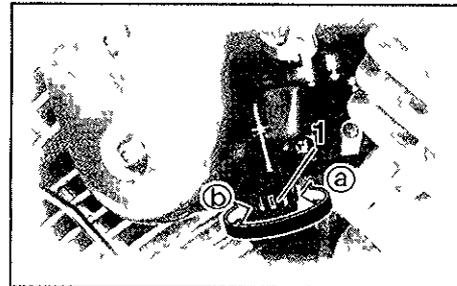
Adjusting the engine idling speed

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

NOTE: _____
A diagnostic tachometer is needed to make this adjustment.

- 1 Attach the tachometer to the spark plug lead.
- 2 Start the engine and warm it up for several minutes at 1,000–2,000 r/min while occasionally revving it to 4,000–5,000 r/min.

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



1 Throttle stop screw

- 3 Check the engine idling speed and, if necessary, adjust it to specification by turning the throttle stop screw. To increase the engine idling speed, turn the screw in direction **a**. To decrease the engine idling speed, turn the screw in direction **b**.

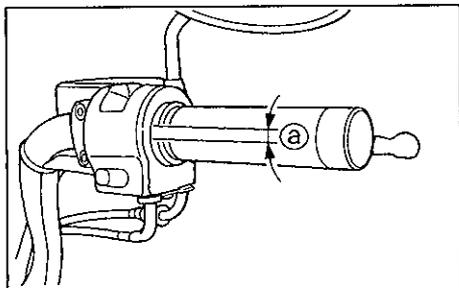
Engine idling speed
950–1,050 r/min

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

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00637

EAU03813



a Throttle cable free play

EAU00635

Adjusting the throttle cable free play

The throttle cable free play should measure 4–6 mm at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it.

6

Adjusting the valve clearance

The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

Tires

To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified tires.

Tire air pressure

The tire air pressure should be checked and, if necessary, adjusted before each ride.

EW00082

⚠ WARNING

- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).
- The tire air pressure must be adjusted in accordance with the riding speed and with the total weight of rider, passenger, cargo, and accessories approved for this model.

PERIODIC MAINTENANCE AND MINOR REPAIR

XVS1100

Tire air pressure (measured on cold tires)		
Load*	Front	Rear
Up to 90 kg	200 kPa (2 00 kgf/cm ² , 2 00 bar)	225 kPa (2 25 kgf/cm ² , 2 25 bar)
90 kg—maximum	225 kPa (2 25 kgf/cm ² , 2 25 bar)	250 kPa (2 50 kgf/cm ² , 2 50 bar)

Maximum load*	200 kg
---------------	--------

* Total weight of rider, passenger, cargo and accessories

XVS1100A

Tire air pressure (measured on cold tires)		
Load*	Front	Rear
Up to 90 kg	225 kPa (2 25 kgf/cm ² , 2 25 bar)	225 kPa (2 25 kgf/cm ² , 2 25 bar)
90 kg—maximum	225 kPa (2 25 kgf/cm ² , 2 25 bar)	250 kPa (2 50 kgf/cm ² , 2 50 bar)

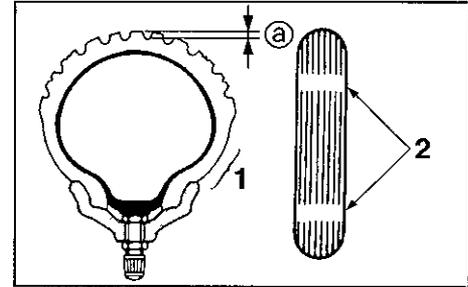
Maximum load*	200 kg
---------------	--------

* Total weight of rider, passenger, cargo and accessories

EW000083

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 that the total weight of the cargo, rider, passenger, and accessories (cowling, 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.



- 1 Tire sidewall
- 2 Tire wear indicator
- a Tire tread depth

Tire inspection

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

Minimum tire tread depth (front and rear)	1 0 mm
--	--------

NOTE:

The tire tread depth limits may differ from country to country. Always comply with the local regulations

PERIODIC MAINTENANCE AND MINOR REPAIR

EW000079

WARNING

- Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the motorcycle with excessively worn tires decreases riding stability and can lead to loss of control.
- The replacement of all wheel- and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.

Tire information

This motorcycle is equipped with tube tires

EW000078

WARNING

- The front and rear tires should be of the same make and design, otherwise the handling characteristics of the motorcycle cannot be guaranteed.
- After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd.

FRONT (XVS1100)

Manufacturer	Size	Model
Dunlop	110/90 18 M/C 61S	K555F
Bridgestone	110/90-18 M/C 61S	EXEDRA L309

REAR (XVS1100)

Manufacturer	Size	Model
Dunlop	170/80 15 M/C 77S	K555
Bridgestone	170/80-15 M/C 77S	EXEDRA G546G

FRONT (XVS1100A)

Manufacturer	Size	Model
Dunlop	130/90 16 M/C 67S	D404F

REAR (XVS1100A)

Manufacturer	Size	Model
Dunlop	170/80 15 M/C 77S	D404G

EAU00680

EAU00685

WARNING

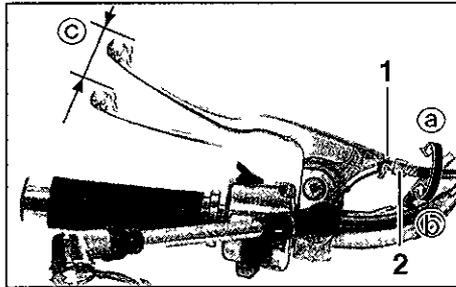
- It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately.
- The replacement of all wheel- and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.
- It is not recommended to patch a punctured tube. If unavoidable, however, patch the tube very carefully and replace it as soon as possible with a high-quality product.

Spoke wheels

To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified wheels

- The wheel rims should be checked for cracks, bends or warpage, and the spokes for looseness or damage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a 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.

PERIODIC MAINTENANCE AND MINOR REPAIR



- 1 Locknut
- 2 Clutch lever free play adjusting bolt
- c Clutch lever free play

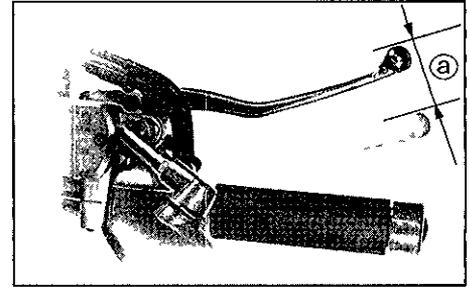
EAU00692

Adjusting the clutch lever free play

The clutch lever free play should measure 5–10 mm as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows

- 1 Loosen the locknut at the clutch lever
- 2 To increase the clutch lever free play, turn the adjusting bolt in direction Ⓐ. To decrease the clutch lever free play, turn the adjusting bolt in direction Ⓑ.
- 3 Tighten the locknut

NOTE: _____
If the specified free play cannot be obtained as described above or if the clutch does not operate correctly, have a Yamaha dealer check the internal clutch mechanism



a Brake lever free play

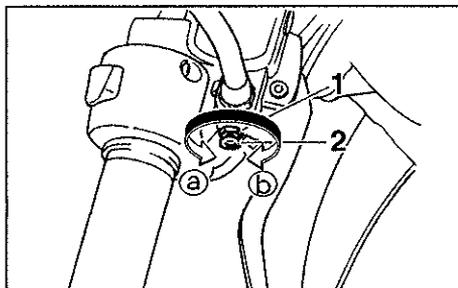
EAU00696

Adjusting the brake lever free play

The brake lever free play should measure 5–8 mm as shown. Periodically check the brake lever free play and, if necessary, adjust it as follows

PERIODIC MAINTENANCE AND MINOR REPAIR

EW000099



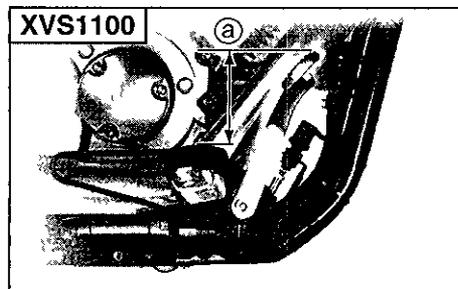
- 1 Locknut
2 Brake lever free play adjusting bolt

- 1 Loosen the locknut at the brake lever
- 2 To increase the brake lever free play, turn the adjusting bolt in direction Ⓐ To decrease the brake lever free play, turn the adjusting bolt in direction Ⓑ
- 3 Tighten the locknut.

WARNING

- After adjusting the brake lever free play, check the free play and make sure that the brake is working properly.
- A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish the braking performance, which may result in loss of control and an accident.

PERIODIC MAINTENANCE AND MINOR REPAIR

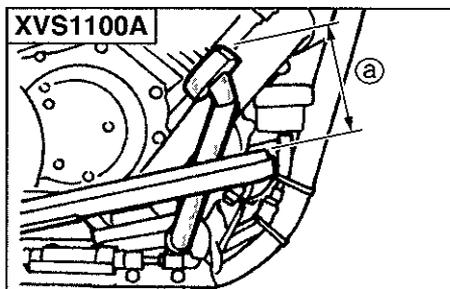


a Distance between brake pedal and footrest

EAU01746

Adjusting the brake pedal position

The top of the brake pedal should be positioned approximately 82 mm [XVS1100] or 99 mm [XVS1100A] above the top of the footrest as shown. Periodically check the brake pedal position and, if necessary, have a Yamaha dealer adjust it.

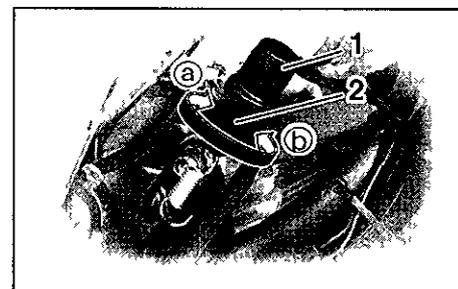


a Distance between brake pedal and footrest

EW000109

⚠ WARNING

A soft or spongy feeling in the brake pedal can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish the braking performance, which may result in loss of control and an accident.



- 1 Brake light switch
- 2 Brake light switch adjusting nut

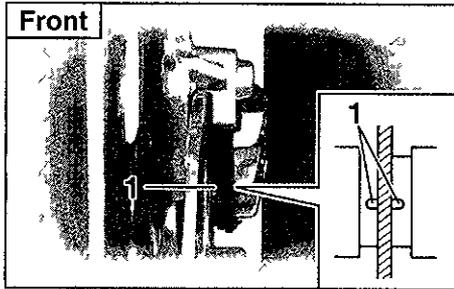
EAU00713

Adjusting the rear brake light switch

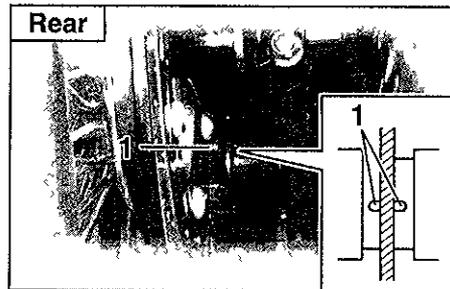
The rear brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

Turn the adjusting nut while holding the rear brake light switch in place. To make the brake light come on earlier, turn the adjusting nut in direction **a**. To make the brake light come on later, turn the adjusting nut in direction **b**.

PERIODIC MAINTENANCE AND MINOR REPAIR



1 Brake pad wear indicator groove



1 Brake pad wear indicator groove

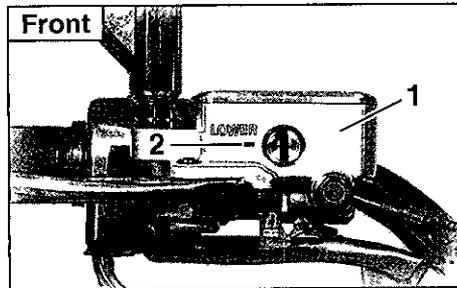
Checking the front and rear brake pads

EAU01314

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake pad is provided with a wear indicator groove, which allows you to check the brake pad wear without having to disassemble the brake.

To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that the wear indicator groove has almost disappeared, have a Yamaha dealer replace the brake pads as a set.

PERIODIC MAINTENANCE AND MINOR REPAIR



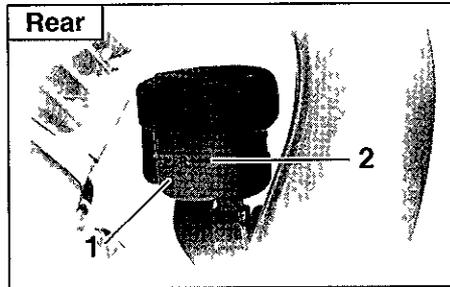
- 1 Brake fluid reservoir
- 2 Minimum level mark

EAU03294

Checking the brake fluid level

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective

Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake level is low, be sure to check the brake pads for wear and the brake system for leakage.



- 1 Brake fluid reservoir
- 2 Minimum level mark

Observe these precautions

- When checking the fluid level, make sure that the top of the brake fluid reservoir is level
- Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.

Recommended brake fluid. DOT 4

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance
- Be careful that water does not enter the brake fluid reservoir 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
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause

PERIODIC MAINTENANCE AND MINOR REPAIR

Changing the brake fluid

EAU03976

Have a Yamaha dealer change the brake fluid at the intervals specified in the NOTE after the periodic maintenance and lubrication chart. In addition, have the oil seals of the master cylinders and calipers as well as the brake hoses replaced at the intervals listed below or whenever they are damaged or leaking

- Oil seals Replace every two years.
- Brake hoses: Replace every four years.

Checking and lubricating the cables

EAU02982

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

Recommended lubricant Engine oil

EW000112

WARNING

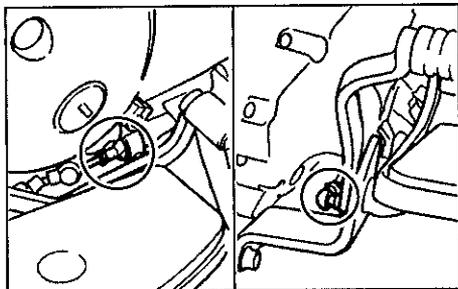
Damage to the outer sheath may interfere with proper cable operation and will cause the inner cable to rust. Replace a damaged cable as soon as possible to prevent unsafe conditions.

Checking and lubricating the throttle grip and cable

EAU04034

The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated or replaced at the intervals specified in the periodic maintenance chart.

PERIODIC MAINTENANCE AND MINOR REPAIR

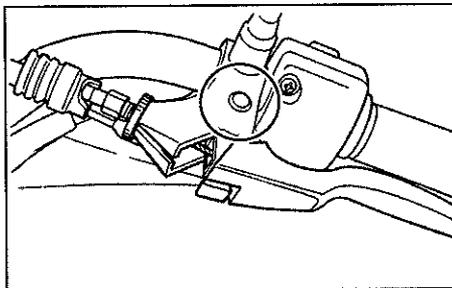


EAU03370

Checking and lubricating the brake and shift pedals

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

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

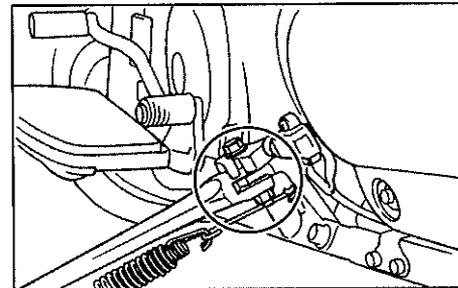


EAU03164

Checking and lubricating the brake and clutch levers

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

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



EAU03165

Checking and lubricating the sidestand

The operation of the sidestand should be checked before each ride, and the sidestand pivot and metal-to-metal contact surfaces should be lubricated if necessary.

EW000113

WARNING

If the sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it.

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Checking the front fork

EAU02939

The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart

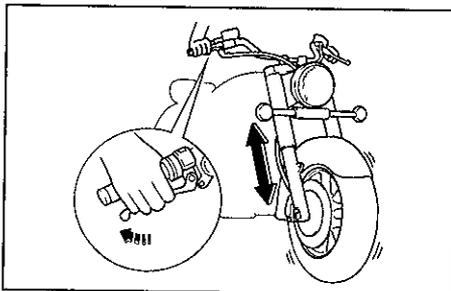
To check the condition

EW000115

WARNING

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

Check the inner tubes for scratches, damage and excessive oil leakage



To check the operation

- 1 Place the motorcycle on a level surface and hold it in an upright position
- 2 While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly

EC000098

CAUTION

If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00794

Checking the steering

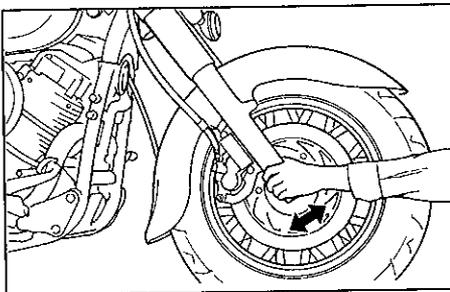
Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

- 1 Place a stand under the engine to raise the front wheel off the ground.

EW000115

WARNING

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



- 2 Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.

EAU01144

Checking the wheel bearings

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Battery

EAU04242

The battery is located behind panel A (See page 6-5 for panel removal and installation procedures.)

This motorcycle is equipped with a sealed-type (MF) battery, which does not require any maintenance. There is no need to check the electrolyte or to add distilled water

EC000101

CAUTION

Never attempt to remove the battery cell seals, as this would permanently damage the battery.

EW000116

⚠ WARNING

- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
 - **EXTERNAL:** Flush with plenty of water.
 - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
 - **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- **Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.**

- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**

PERIODIC MAINTENANCE AND MINOR REPAIR

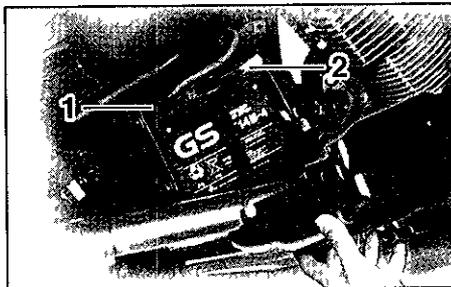
EC000102

To charge the battery

Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the battery tends to discharge more quickly if the motorcycle is equipped with optional electrical accessories.

To store the battery

- 1 If the motorcycle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
- 2 If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
- 3 Fully charge the battery before installation.



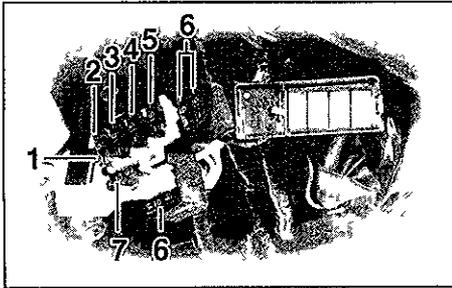
- 1 Positive battery terminal
- 2 Negative battery terminal

- 4 After installation, make sure that the battery leads are properly connected to the battery terminals.

CAUTION

- Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.
- To charge a sealed-type (MF) battery, a special (constant-voltage) battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a sealed-type (MF) battery charger, have a Yamaha dealer charge your battery.

PERIODIC MAINTENANCE AND MINOR REPAIR



- 1 Fuse box
- 2 Backup fuse (odometer)
- 3 Ignition fuse
- 4 Headlight fuse
- 5 Carburetor heater fuse
- 6 Spare fuse (x 3)
- 7 Signaling system fuse

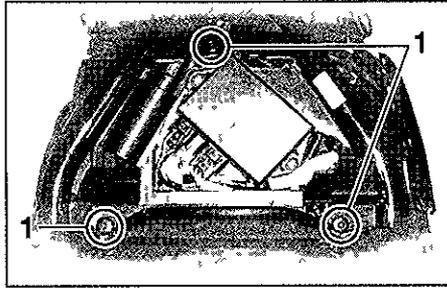
EAU04210

Replacing the fuses

The main fuse is located under the ignitor unit panel

The fuse box, which contains the fuses for the individual circuits, is located inside the storage compartment (See page 3-14 for storage compartment cover removal and installation procedures)

If a fuse is blown, replace it as follows

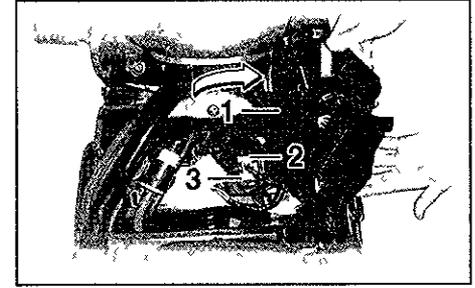


- 1 Quick fastener (x 3)

NOTE:

Include steps 1–3 and 9–10 only for the main fuse

- 1 Remove the rider seat (See page 3-11 [XVS1100] or 3-13 [XVS1100A] for rider seat removal and installation procedures)
- 2 Remove the quick fasteners shown by pushing the center in with a screwdriver, then pulling the fastener out.



- 1 Ignitor unit panel
 - 2 Spare main fuse
 - 3 Main fuse
- 3 Pull the ignitor unit panel outward to the right
 4. Turn the key to "OFF" and turn off the electrical circuit in question
 - 5 Remove the blown fuse, and then install a new fuse of the specified amperage

Specified fuses

Main fuse.	30 A
Backup fuse (odometer)	5 A
Ignition fuse	10 A
Headlight fuse	15 A
Carburetor heater fuse	15 A
Signaling system fuse	10 A

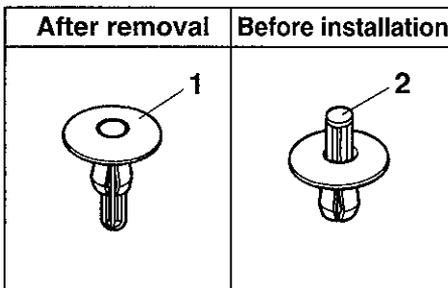
PERIODIC MAINTENANCE AND MINOR REPAIR

EC000103

CAUTION

Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.

- 6 Turn the key to "ON" and turn on the electrical circuit in question to check if the device operates
- 7 If the fuse immediately blows again, have a Yamaha dealer check the electrical system
- 8 Install the storage compartment cover



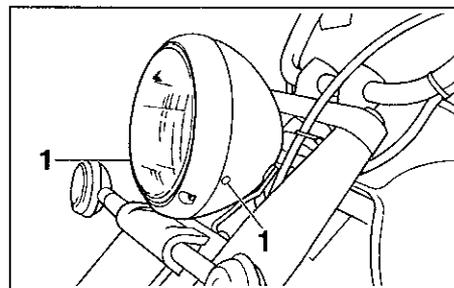
- 1 Quick fastener
- 2 Pin

- 9 Place the ignitor unit panel in the original position and install the quick fasteners

NOTE:

To install a quick fastener, push its pin back so that it will protrude from the fastener head, then insert the fastener and push the protruding pin in until it is flush with the fastener head.

- 10 Install the rider seat



- 1 Screw (x 2)

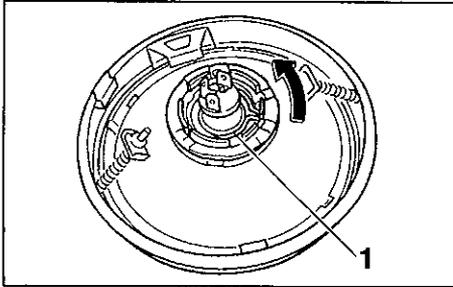
EAU04189

Replacing the headlight bulb

This motorcycle is equipped with a quartz bulb headlight. If the headlight bulb burns out, replace it as follows:

- 1 Remove the headlight unit by removing the screws
- 2 Disconnect the headlight coupler, and then remove the bulb cover

PERIODIC MAINTENANCE AND MINOR REPAIR



1 Headlight bulb holder

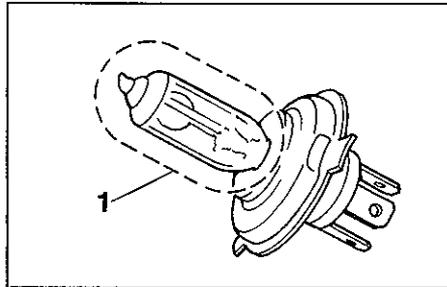
- 3 Unhook the headlight bulb holder, and then remove the defective bulb.

EW000119

⚠ WARNING

Headlight bulbs get very hot. Therefore, keep flammable products away from a lit headlight bulb, and do not touch the bulb until it has cooled down.

- 4 Place a new headlight bulb into position, and then secure it with the bulb holder



1 Do not touch this area

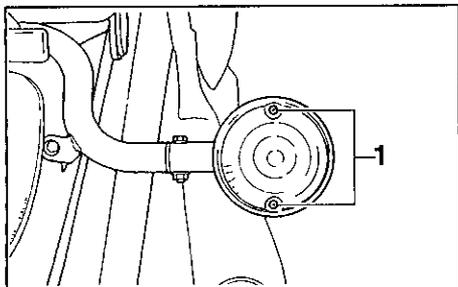
EC000105

CAUTION

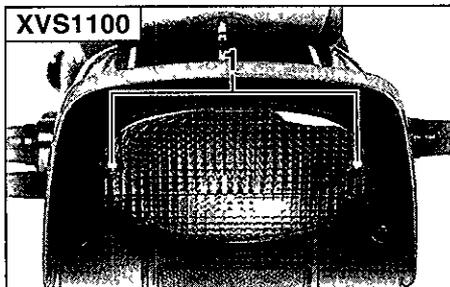
Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

- 5 Install the headlight bulb cover, and then connect the coupler
- 6 Install the headlight unit by installing the screws
- 7 Have a Yamaha dealer adjust the headlight beam if necessary

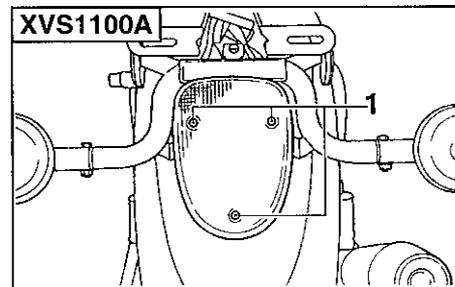
PERIODIC MAINTENANCE AND MINOR REPAIR



1 Screw (x 2)



1 Screw (x 2)



1 Screw (x 3)

EAU00855

Replacing a turn signal light bulb or the tail/brake light bulb

6

- 1 Remove the lens by removing the screws
- 2 Remove the defective bulb by pushing it in and turning it counter-clockwise

- 3 Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops
- 4 Install the lens by installing the screws

EC000108

CAUTION

Do not overtighten the screws, otherwise the lens may break.

EAU01579

Supporting the motorcycle

Since this model is not equipped with a centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright. Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability.

To service the front wheel

- 1 Stabilize the rear of the motorcycle by using a motorcycle stand or, if an additional motorcycle stand is not available, by placing a jack under the frame in front of the rear wheel.
- 2 Raise the front wheel off the ground by using a motorcycle stand.

To service the rear wheel

Raise the rear wheel off the ground by using a motorcycle stand or, if a motorcycle stand is not available, by placing a jack either under each side of the frame in front of the rear wheel or under each side of the swingarm.

EAU01008

Troubleshooting

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

The following troubleshooting chart represents a quick and easy procedure for checking these vital systems yourself. However, should your motorcycle require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the motorcycle properly.

Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

PERIODIC MAINTENANCE AND MINOR REPAIR

Troubleshooting chart

EAU01297

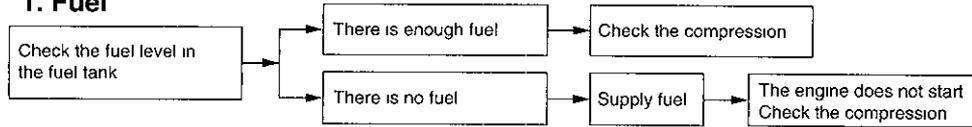
EW000125



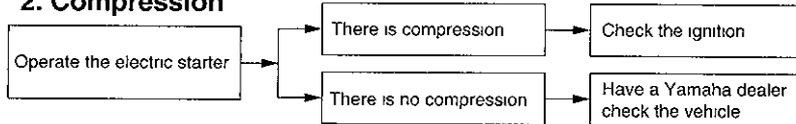
WARNING

Keep away open flames and do not smoke while checking or working on the fuel system.

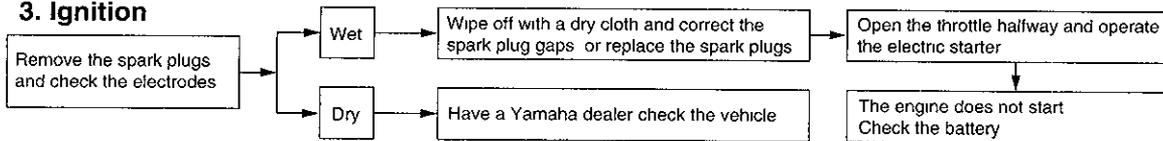
1. Fuel



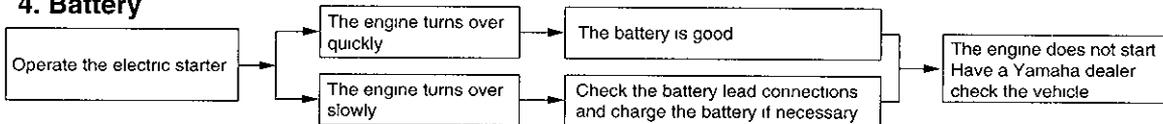
2. Compression



3. Ignition



4. Battery



MOTORCYCLE CARE AND STORAGE

Care	7-1
Storage	7-4

Care

While the open design of a motorcycle reveals the attractiveness of the technology, it also makes it more vulnerable. Rust and corrosion can develop even if high-quality components are used. A rusty exhaust pipe may go unnoticed on a car, however, it detracts from the overall appearance of a motorcycle. Frequent and proper care does not only comply with the terms of the warranty, but it will also keep your motorcycle looking good, extend its life and optimize its performance.

Before cleaning

- 1 Cover the muffler outlets with plastic bags after the engine has cooled down.
- 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

ECA00010

CAUTION

- **Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then 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**

MOTORCYCLE CARE AND STORAGE

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 and swing-arm bearings, fork 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 that it does not leave any marks. If the wind-

shield is scratched, use a quality plastic polishing compound after washing.

After normal use

Remove dirt with warm water, a mild detergent, and a soft, clean sponge, and then rinse thoroughly with clean water. Use a toothbrush or bottlebrush for hard-to-reach areas. Stubborn dirt and insects will come off more easily if the area is covered with a wet cloth for a few minutes before cleaning.

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

Since sea salt or salt sprayed on roads during 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

NOTE: _____

Salt sprayed on roads in the winter may remain well into spring

MOTORCYCLE CARE AND STORAGE

- 1 Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down

ECA00012

CAUTION

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

- 2 After drying the motorcycle, apply a corrosion protection spray on all metal, including chrome- and nickel-plated, 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 metal, including chrome- and nickel-plated, 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 or covering it

EWA00031

WARNING

- **Make sure that there is no oil or wax on the brakes or tires.**
- **If necessary, clean the brake discs and brake linings with a regular brake disc cleaner or acetone, and wash the tires with warm water and a mild detergent. Before riding at higher speeds, test the motorcycle's braking performance and cornering behavior.**

MOTORCYCLE CARE AND STORAGE

ECA00013

CAUTION:

- Apply spray oil and wax sparingly and make sure to wipe off any excess.
- Never apply oil or wax to any rubber and plastic parts, but treat them with a suitable care product.
- Avoid using abrasive polishing compounds as they will 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 For motorcycles equipped with a fuel cock that has an “OFF” position. Turn the fuel cock lever to “OFF”
- 3 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
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.
 - a Remove the spark plug caps and spark plugs
 - b Pour a teaspoonful of engine oil into each spark plug bore

MOTORCYCLE CARE AND STORAGE

- c Install the spark plug caps onto the spark plugs, and then 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, and then install the spark plugs and the spark plug caps.
- 7 Check and, if necessary, correct the tire air pressure, and then lift 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 the muffler outlets with plastic bags to prevent moisture from entering them.
 - 9. Remove the battery and fully charge it Store it in a cool, dry place and charge it once a month Do not store the battery in an excessively cold or warm place (less than 0 °C or more than 30 °C). For more information on storing the battery, see page 6-27

EWA00003

WARNING

To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.

- 6 Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand

NOTE: _____
Make any necessary repairs before storing the motorcycle

Specifications	.....	8-1
Conversion table		8-6

Specifications

Model XVS1100/XVS1100A

Dimensions

XVS1100

Overall length	2,405 mm
Overall width	895 mm
Overall height	1,095 mm
Seat height	690 mm
Wheelbase	1,640 mm
Ground clearance	145 mm
Minimum turning radius	3,200 mm

XVS1100A

Overall length	2,465 mm
Overall width	945 mm
Overall height	1,095 mm
Seat height	710 mm
Wheelbase	1,645 mm
Ground clearance	145 mm
Minimum turning radius	3,300 mm

Basic weight (with oil and full fuel tank)

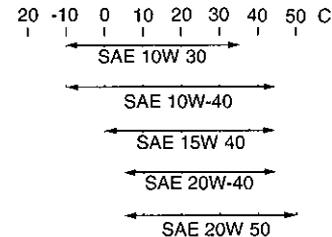
XVS1100	275 kg
XVS1100A	288 kg

Engine

Engine type	Air-cooled 4 stroke, SOHC
Cylinder arrangement	V type 2-cylinder
Displacement	1,063 cm ³
Bore × stroke	95.0 × 75.0 mm
Compression ratio	8.3:1
Starting system	Electric starter
Lubrication system	Wet sump

Engine oil

Type



Recommended engine oil classification

API Service SE, SF, SG or higher

CAUTION

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

Quantity

Without oil filter element replacement	3 0 L
With oil filter element replacement	3 1 L
Total amount (dry engine)	3 6 L

Final gear oil

Type	Hypoid gear oil SAE 80 (API GL4) or multi-grade hypoid gear oil SAE 80W-90
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Quantity	0 2 L
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Air filter

Dry type element

Fuel

Type	UNLEADED GASOLINE ONLY
Fuel tank capacity	17 L
Fuel reserve amount	4 5 L

Carburetor

Manufacturer	MIKUNI
Model × quantity	BSR37 × 2

Spark plug

Manufacturer/model	NGK / BPR7ES or DENSO / W22EPR-U
--------------------	-------------------------------------

Gap	0 7–0 8 mm
-----	------------

Clutch type

Wet multiple-disc

Transmission

Primary reduction system	Spur gear
--------------------------	-----------

Primary reduction ratio	1 660
-------------------------	-------

Secondary reduction system	Shaft drive
----------------------------	-------------

Secondary reduction ratio	2 875
---------------------------	-------

Transmission type	Constant-mesh 5-speed
-------------------	-----------------------

Operation	Left foot
-----------	-----------

Gear ratio

1st	2 353
-----	-------

2nd	1 667
-----	-------

3rd	1 286
-----	-------

4th	1 032
-----	-------

5th	0 853
-----	-------

Chassis

Frame type	Double cradle
------------	---------------

Caster angle	33°
--------------	-----

Trail

XVS1100	136 mm
---------	--------

XVS1100A	132 mm
----------	--------

SPECIFICATIONS

Tires

XVS1100

Front

Type	Tube tire
Size	110/90-18 M/C 61S
Manufacturer/ model	Bridgestone / EXEDRA L309 Dunlop / K555F

Rear

Type	Tube tire
Size	170/80-15 M/C 77S
Manufacturer/ model	Bridgestone / EXEDRA G546G Dunlop / K555

Maximum load* 200 kg

Tire air pressure (measured on cold tires)

Up to 90 kg*

Front	200 kPa (2 00 kgf/cm ² , 2 00 bar)
Rear	225 kPa (2 25 kgf/cm ² , 2 25 bar)

90 kg–maximum*

Front	225 kPa (2 25 kgf/cm ² , 2 25 bar)
Rear	250 kPa (2 50 kgf/cm ² , 2 50 bar)

* Total weight of rider, passenger, cargo and accessories

XVS1100A

Front

Type	Tube tire
Size	130/90 16 M/C 67S
Manufacturer/ model	Dunlop / D404F

Rear

Type	Tube tire
Size	170/80-15 M/C 77S
Manufacturer/ model	Dunlop / D404G

Maximum load* 200 kg

Tire air pressure (measured on cold tires)

Up to 90 kg*

Front	225 kPa (2 25 kgf/cm ² , 2 25 bar)
Rear	225 kPa (2 25 kgf/cm ² , 2 25 bar)

90 kg–maximum*

Front	225 kPa (2 25 kgf/cm ² , 2 25 bar)
Rear	250 kPa (2 50 kgf/cm ² , 2 50 bar)

* Total weight of rider, passenger, cargo and accessories

SPECIFICATIONS

Wheels

XVS1100

Front

Type Spoke wheel
Size 18 M/C × 2 15

Rear

Type Spoke wheel
Size 15 M/C × MT 4 50

XVS1100A

Front

Type Spoke wheel
Size 16 M/C × MT 3 00

Rear

Type Spoke wheel
Size 15 M/C × MT 4 50

Brakes

Front

Type Dual disc brake
Operation Right hand
Fluid DOT 4

Rear

Type Single disc brake
Operation Right foot
Fluid DOT 4

Suspension

Front

Telescopic fork

Rear

Swingarm (link suspension)

Spring/shock absorber

Front

Coil spring / oil damper

Rear

Coil spring / gas oil damper

Wheel travel

Front

140 mm

Rear

113 mm

Electrical system

Ignition system

TCI (digital)

Charging system

Type A C magneto

Standard output

XVS1100 14 V, 305 W@ 5,000 r/min

XVS1100A 14 V, 350 W@ 5 000 r/min

Battery

Model GT14B-4

Voltage, capacity 12 V, 12 Ah

Headlight type

Quartz bulb (halogen)

SPECIFICATIONS

Bulb voltage, wattage × quantity

Headlight	12 V 60/55 W × 1
Tail/brake light	12 V, 5/21 W × 1
Turn signal light	12 V, 21 W × 4
Meter lighting	14 V, 1.4 W × 2
Oil level warning light	12 V, 1.7 W × 1
Neutral indicator light	12 V, 1.7 W × 1
Turn signal indicator light	12 V, 1.7 W × 1
Engine trouble warning light	12 V, 1.7 W × 1
High beam indicator light	12 V 1.7 W × 1

Fuses

Main fuse	30 A
Signaling system fuse	10 A
Backup fuse (odometer)	5 A
Ignition fuse	10 A
Headlight fuse	15 A
Carburetor heater fuse	15 A

EAU03941

Conversion table

All specification data in this manual are listed in SI and METRIC UNITS

Use this table to convert METRIC unit values to IMPERIAL unit values

Example:

METRIC VALUE	CONVERSION FACTOR		IMPERIAL VALUE
2 mm	$\times 0.03937$	=	0.08 in

Conversion table

METRIC SYSTEM TO IMPERIAL SYSTEM			
	Metric unit	Conversion factor	Imperial unit
Torque	m kgf	$\times 7.233$	ft lb
	m kgf	$\times 86.794$	in lb
	cm kgf	$\times 0.0723$	ft lb
	cm kgf	$\times 0.8679$	in lb
Weight	kg	$\times 2.205$	lb
	g	$\times 0.03527$	oz
Speed	km/h	$\times 0.6214$	mi/h
Distance	km	$\times 0.6214$	mi
	m	$\times 3.281$	ft
	m	$\times 1.094$	yd
	cm	$\times 0.3937$	in
	mm	$\times 0.03937$	in
Volume Capacity	cc (cm ³)	$\times 0.03527$	oz (IMP liq)
	cc (cm ³)	$\times 0.06102$	cu in
	L (liter)	$\times 0.8799$	qt (IMP liq)
	L (liter)	$\times 0.2199$	gal (IMP liq)
Miscellaneous	kgf/mm	$\times 55.997$	lb/in
	kgf/cm ²	$\times 14.2234$	psi (lb/in ²)
	°C	$\times 1.8 + 32$	°F

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Identification numbers	9-1
Key identification number	9-1
Vehicle identification number	9-1
Model label	.....	.	..	9-2
Motorcycle noise regulation (for Australia)	.	.	.	9-2

Identification numbers

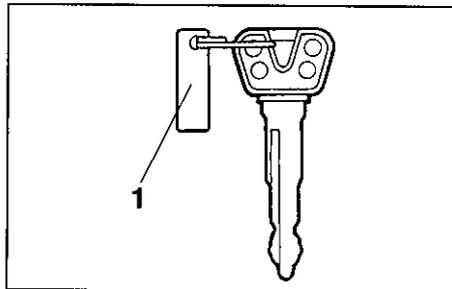
EAU02844

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

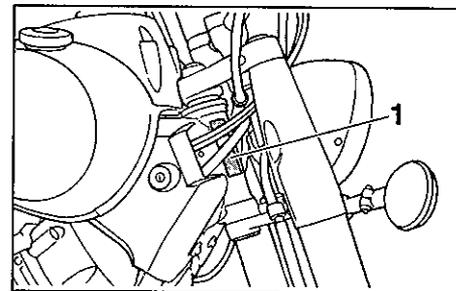
1 KEY IDENTIFICATION NUMBER

2 VEHICLE IDENTIFICATION NUMBER

3 MODEL LABEL INFORMATION



1 Key identification number



1 Vehicle identification number

Key identification number

EAU01041

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

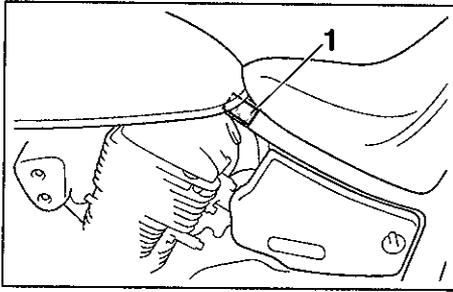
Vehicle identification number

EAU01043

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 area.



1 Model label

EAU01804*

Model label

The model label is affixed to the frame under the rider seat. (See page 3-11 [XVS1100] or 3-13 [XVS1100A] for rider seat removal and installation procedures.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU01388

Motorcycle noise regulation (for Australia)

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED

Owners are warned that the law may prohibit

- (a) The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use, and
- (b) The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person

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