



OWNER'S MANUAL



**FJR1300**  
**FJR1300A**

5JW-28199-E2



## DECLARATION of CONFORMITY

We

Company: MORIC CO., LTD.

Address: 1450-6 Mori Mori-Machi Shuchi-gun Shizuoka 437-0292 Japan

Hereby declare that the product:

Kind of equipment: IMMOBILIZER

Type-designation:

SSL-00, SVS-00, SVX-00, 3HT-00, 5UX-00, 5UX-10, 5KS-00 and 5KS-10

is in compliance with following norm(s) or documents:

R&TTE Directive(1999/5/EC)

EN300 330-2 v1.1.1(2001-6), EN60950(2000)

Two or Three-Wheel Motor Vehicles Directive(97/24/EC: Chapter 8, EMC)

Place of issue: Shizuoka, Japan

Date of issue: Aug. 1<sup>st</sup> 2002

Kazuji Kawai



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representative name and signature



Welcome to the Yamaha world of motorcycling!

As the owner of the FJR1300/FJR1300A, you are benefiting from Yamaha's vast experience and newest technology regarding the design and manufacture of high-quality products, which have earned Yamaha a reputation for dependability.

Please take the time to read this manual thoroughly, so as to enjoy all advantages of your FJR1300/FJR1300A. The owner's manual does not only instruct you in how to operate, inspect and maintain your motorcycle, but also in how to safeguard yourself and others from trouble and injury.

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

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

# IMPORTANT MANUAL INFORMATION

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EAU00005

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



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



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

## **CAUTION:**

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

## **NOTE:**

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

## **NOTE:**

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

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EW000002



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

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# **IMPORTANT MANUAL INFORMATION**

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EAU04229

**FJR1300/FJR1300A  
OWNER'S MANUAL  
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## GIVE SAFETY THE RIGHT OF WAY

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# GIVE SAFETY THE RIGHT OF WAY

EAU00021

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

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

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

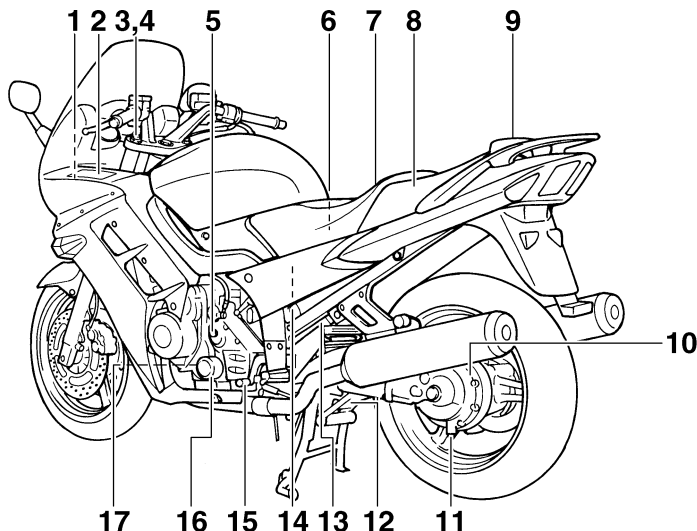
Enjoy your ride!

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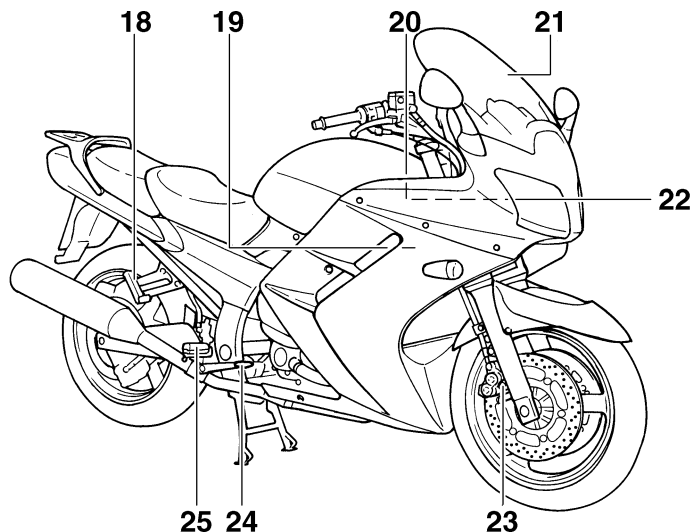
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| 2. Accessory box                                   | (page 3-19) | 11. Final gear oil drain bolt                                    | (page 6-12) |
| 3. Front fork spring preload adjusting bolt        | (page 3-20) | 12. Shock absorber assembly rebound damping force adjusting knob | (page 3-22) |
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| 6. Owner's tool kit                                | (page 6-1)  | 15. Shift pedal  | (page 3-11) |
| 7. Rider seat                                      | (page 3-17) | 16. Engine oil filter cartridge                                  | (page 6-9)  |
| 8. Passenger seat                                  | (page 3-17) | 17. Engine oil level check window                                | (page 6-9)  |
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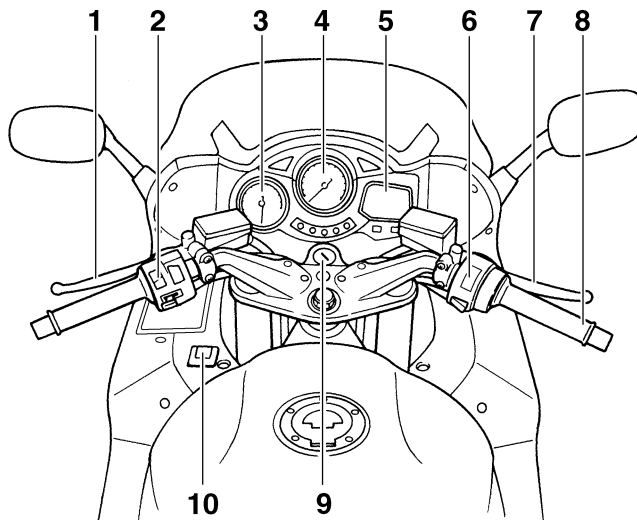
## Right view



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- 20. Battery (page 6-31)
- 21. Windshield
- 22. Main fuse and electronic fuel injection fuse (page 6-32, 6-33)
- 23. Front fork compression damping force adjusting screw (page 3-21)
- 24. Brake pedal (page 3-12)
- 25. Rider footrest

# DESCRIPTION

## Controls and instruments



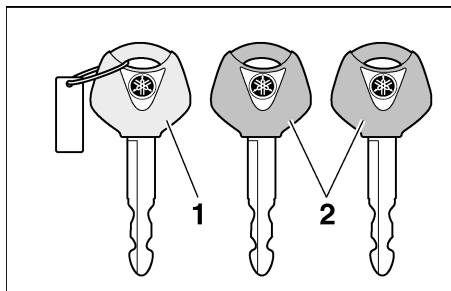
- |                              |             |
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1. Code re-registering key (red bow)
2. Standard key (× 2, black bow)

EAU04999

## Immobilizer system

This vehicle is equipped with an immobilizer system to help prevent theft by re-registering codes in the standard keys. This system consists of the following.

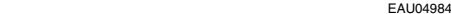
- a code re-registering key (with a red bow)
- two standard keys (with a black bow) that can be re-registered with new codes
- a transponder (which is installed in the code re-registering key)

- an immobilizer unit
- the ECU
- an immobilizer system indicator light (See page 3-4 for details.)

The key with the red bow is used to register codes in each standard key. Since re-registering is a difficult process, take the vehicle along with all three keys to a Yamaha dealer to have them re-registered. Do not use the key with the red bow for driving. It should only be used for re-registering the standard keys. Always use a standard key for driving.

### CAUTION:

- **DO NOT LOSE THE CODE RE-REGISTERING KEY! CONTACT YOUR DEALER IMMEDIATELY IF IT IS LOST!** If the code re-registering key is lost, registering new codes in the standard keys is impossible. The standard keys can still be used to start the vehicle, however if code re-registering is required (i.e., if a new standard key is made or all keys are lost) the entire immobilizer system must be replaced. Therefore, it is highly recommended to use either standard key and keep the code re-registering key in a safe place.
- Do not submerge any key in water.
- Do not expose any key to excessively high temperatures.

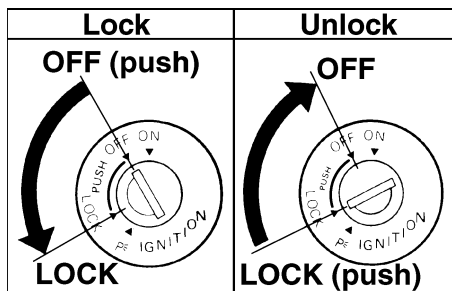


The main switch/steering lock controls the ignition and lighting systems, and is used to lock the steering.

All electrical circuits are supplied with power; the meter lighting, taillights and auxiliary lights come on, and the engine can be started. The key cannot be removed.

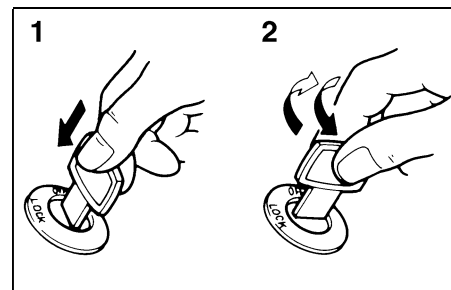
All electrical systems are off. The key can be removed.

# INSTRUMENT AND CONTROL FUNCTIONS



## To unlock the steering

Push the key into the main switch, and then turn it to “OFF” while still pushing it.



1. Push.
2. Turn.

## LOCK

EAU00041

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 or right.
2. Push the key in from the “OFF” position, and then turn it to “LOCK” while still pushing it.
3. Remove the key.

EW000016

## **! 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

## P⊥ (Parking)

EAU04300

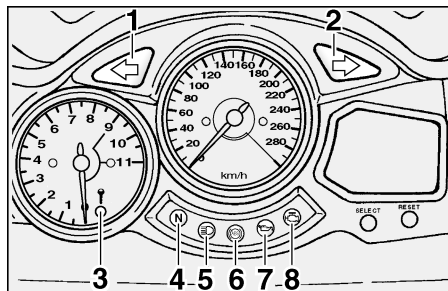
The steering is locked, the taillights and auxiliary lights are on, and the hazard light can be turned on, but all other electrical systems are off. The key can be removed.

The steering must be locked before the key can be turned to “P⊥”.

ECA00043

### CAUTION:

**Do not use the parking position for an extended length of time, otherwise the battery may discharge.**



1. Left turn signal indicator light “⬅”
2. Right turn signal indicator light “➡”
3. Immobilizer system indicator light “🔑”
4. Neutral indicator light “N”
5. High beam indicator light “≡”
6. ABS warning light “(ABS)” (For FJR1300A only)
7. Oil level warning light “🛢”
8. Engine trouble warning light “🔧”

EAU03034

## Indicator and warning lights

### Turn signal indicator lights

“⬅” and “➡”

The corresponding indicator light flashes when the turn signal switch is pushed to the left or right.

EAU04121

EAU26871

## Immobilizer system indicator light

“🔑”

The electrical circuit of the indicator light can be checked by turning the key to “ON”.

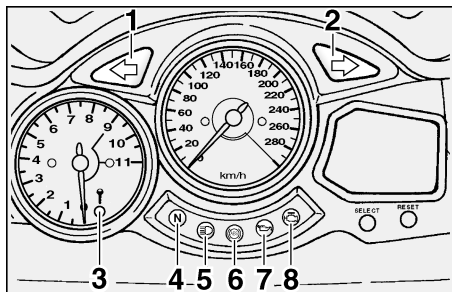
If the indicator light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit.

When the key is turned to “OFF” and 30 seconds have passed, the indicator light will start flashing indicating the immobilizer system is enabled. After 24 hours have passed, the indicator light will stop flashing, however the immobilizer system is still enabled.

### NOTE:

This model is also equipped with a self-diagnosis device for the immobilizer system. If the immobilizer system is defective, the indicator will start flashing and the multi-function meter will display an error code when the key is turned to “ON”. (See “Self-diagnosis device” on page 3-7 for details.)

# INSTRUMENT AND CONTROL FUNCTIONS



1. Left turn signal indicator light “↵”
2. Right turn signal indicator light “↶”
3. Immobilizer system indicator light “Ⓚ”
4. Neutral indicator light “N”
5. High beam indicator light “≡”
6. ABS warning light “(ABS)” (For FJR1300A only)
7. Oil level warning light “⛽”
8. Engine trouble warning light “⚠”

## Neutral indicator light “N”

EAU00061

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

## High beam indicator light “≡”

EAU00063

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

## ABS warning light “(ABS)”

EAU11542

### (For FJR1300A only)

If this warning light comes on or flashes while riding, the ABS may be defective. If this occurs, have a Yamaha dealer check the system as soon as possible. (See page 3-13.)

EWA10081



## WARNING

**If the ABS warning light comes on or flashes while riding, the brake system reverts to conventional braking. Therefore, be careful not to cause the wheels to lock during emergency braking. If the warning light comes on or flashes while riding, have a Yamaha dealer check the brake system as soon as possible.**

The electrical circuit of the warning light can be checked by turning the key to “ON”.

If the warning light does not come on or remains on, have a Yamaha dealer check the electrical circuit.

## Oil level warning light “⛽”

EAU04877

This warning light comes on when the engine oil level is low.

The electrical circuit of the warning light can be checked by turning the key to “ON”.

If the warning light does not come on for a few seconds, then go off, 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.

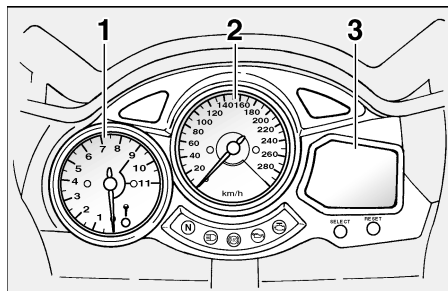
# INSTRUMENT AND CONTROL FUNCTIONS

## Engine trouble warning light “”

EAU04585

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

The electrical circuit of the warning light can be checked by turning the key to “ON”. If the warning light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit.

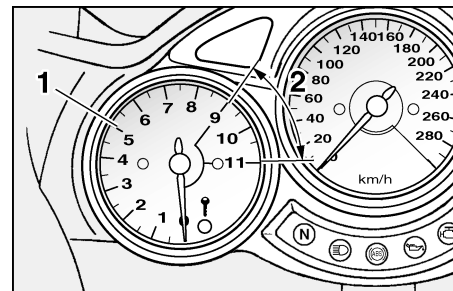


1. Tachometer
2. Speedometer
3. Multi-function display

## Speedometer

EAU04031

The speedometer shows the riding speed.



1. Tachometer
2. Tachometer red zone

## Tachometer

EAU04969

The electric tachometer allows the rider to monitor the engine speed and keep it within the ideal power range.

When the key is turned to “ON”, the tachometer needle will move to 11,000 r/min and back to zero r/min in order to test the electrical circuit.

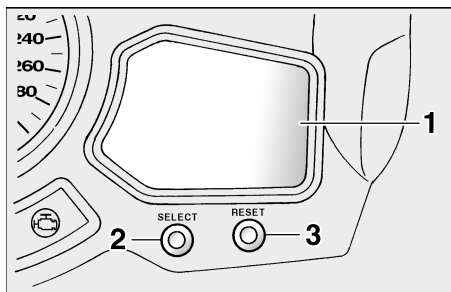
EC000003

### CAUTION:

**Do not operate the engine in the tachometer red zone.**

**Red zone: 9,000 r/min and above**

# INSTRUMENT AND CONTROL FUNCTIONS



1. Multi-function display
2. "SELECT" button
3. "RESET" button

EAU26860

## Multi-function display

The multi-function display is equipped with the following:

- a fuel gauge
- a coolant temperature gauge
- an odometer (which shows the total distance traveled)
- two tripmeters (which show the distance traveled since they were last set to zero)

- a fuel reserve tripmeter (which shows the distance traveled on the fuel reserve)
- a self-diagnosis device
- a clock

## Odometer and tripmeter modes

Pushing the "SELECT" button switches the display between the odometer mode "ODO" and the tripmeter modes "TRIP" in the following order:

ODO → TRIP (top) → TRIP (bottom) → ODO

When approximately 5 L of fuel remains in the fuel tank, the display will automatically change to the fuel reserve tripmeter mode "TRIP F" and start counting the distance traveled from that point. In that case, pushing the "SELECT" button switches the display between the various tripmeter and odometer modes in the following order: TRIP F → TRIP (top) → TRIP (bottom) → ODO → TRIP F

To reset a tripmeter, select it by pushing the "SELECT" button, and then push the "RESET" button for at least one second. If you do not reset the fuel reserve tripmeter manually, it will reset itself automatically and the display will return to the prior mode after refueling and traveling 5 km.

## Self-diagnosis device

This model is equipped with a self-diagnosis device for various electrical circuits.

If any of those circuits are defective, the multi-function display will indicate a two-digit error code (e.g., 11, 12, 13).

If the multi-function display indicates such an error code, note the code number, and then have a Yamaha dealer check the vehicle.



ECA11790

## CAUTION:

If the multi-function display indicates an error code, the vehicle should be checked as soon as possible in order to avoid engine damage.

This model is also equipped with a self-diagnosis device for the immobilizer system.

If any of the immobilizer system circuits are defective, the immobilizer system indicator light will flash, and then the multi-function display will indicate a two-digit error code (e.g., 51, 52, 53) when the key is turned to "ON".

## NOTE:

If the multi-function display indicates error code 52, this could be caused by transponder interference. If this error appears, try the following.

1. Use the code re-registering key to start the engine.

## NOTE:

Make sure there are no other immobilizer keys close to the main switch, and do not keep more than one immobilizer key on the same key ring! Immobilizer system keys may cause signal interference, which may prevent the engine from starting.

2. If the engine starts, turn it off, and try starting the engine with the standard keys.
3. If one or both of the standard keys do not start the engine, take the vehicle, the code re-registering key and both standard keys to a Yamaha dealer and have the standard keys re-registered.

If the multi-function display indicates any error codes, note the code number, and then have a Yamaha dealer check the vehicle.

## Clock mode

### To set the clock:

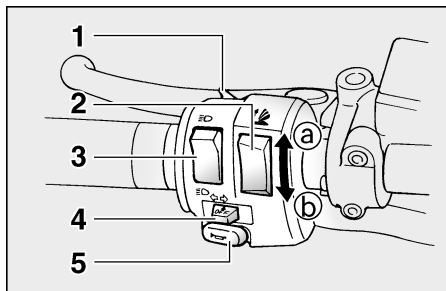
1. Push the "SELECT" button and "RESET" button together for at least two seconds.
2. When the hour digits start flashing, push the "RESET" button to set the hours.
3. Push the "SELECT" button, and the minute digits will start flashing.
4. Push the "RESET" button to set the minutes.
5. Push the "SELECT" button and then release it to start the clock.

# INSTRUMENT AND CONTROL FUNCTIONS

## Anti-theft alarm (optional)

EAU00109

This motorcycle can be equipped with an optional anti-theft alarm by a Yamaha dealer. Contact a Yamaha dealer for more information.



1. Pass switch “≡○”
2. Windshield position adjusting switch “↕”
3. Dimmer switch “≡○ / ≡○”
4. Turn signal switch “↵ / ↶”
5. Horn switch “🔊”

## Handlebar switches

EAU00118

### Pass switch “≡○”

Press this switch to flash the headlights.

EAU04604

### Dimmer switch “≡○ / ≡○”

Set this switch to “≡○” for the high beam and to “≡○” for the low beam.

EAU03886

## Windshield position adjusting switch “↕”

EAU04077

To move the windshield up, push this switch in direction ①. To move the windshield down, push the switch in direction ②.

### NOTE:

When the engine is turned off, the windshield will automatically return to the lowest position.

EAU03889

## Turn signal switch “↵ / ↶”

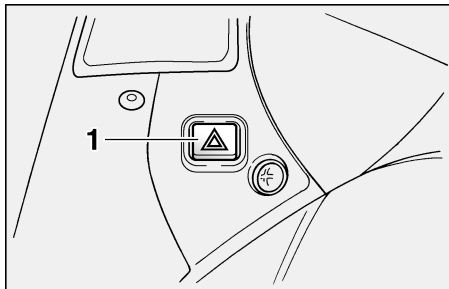
To signal a right-hand turn, push this switch to “↶”. To signal a left-hand turn, push this switch to “↵”. When released, the switch returns to the center position. To cancel the turn signal lights, push the switch in after it has returned to the center position.


EAU00129

## Horn switch “🔊”

Press this switch to sound the horn.

# INSTRUMENT AND CONTROL FUNCTIONS



1. Hazard switch “”

EAU03826

## Hazard switch “”

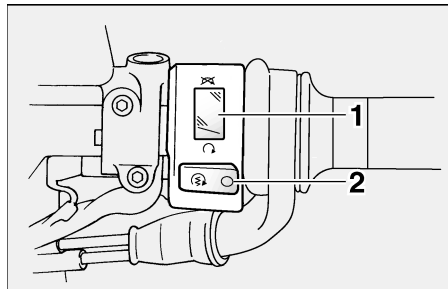
With the key in the “ON” or “P<sub>⌂</sub>” position, use this switch to turn on the hazard light (simultaneous flashing of all turn signal lights).




The hazard light is used in case of an emergency or to warn other drivers when your motorcycle is stopped where it might be a traffic hazard.

EC000006

### CAUTION:



**Do not use the hazard light for an extended length of time, otherwise the battery may discharge.**



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

EAU03890

## Engine stop switch “ / ”

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 over-turns or when the throttle cable is stuck.

EAU00143

## Start switch “”

Push this switch to crank the engine with the starter.

EC000005

### CAUTION:

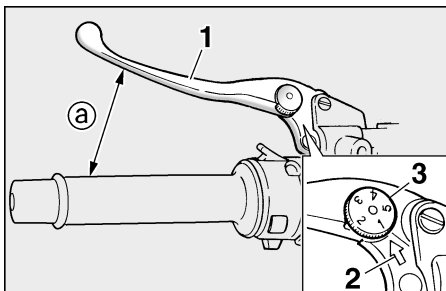
**See page 5-1 for starting instructions prior to starting the engine.**

# INSTRUMENT AND CONTROL FUNCTIONS

EAU00153

## Clutch lever

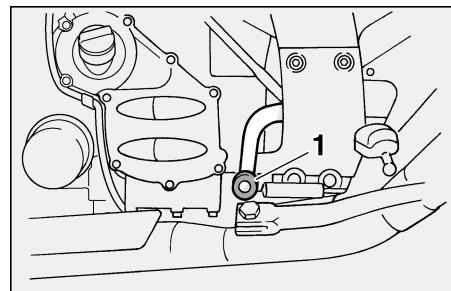
The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.



1. Clutch lever
2. Arrow mark
3. Clutch lever position adjusting dial
- a. Distance between clutch lever and handlebar grip

The clutch lever is equipped with a clutch lever position adjusting dial. To adjust the distance between the clutch lever and the handlebar grip, turn the adjusting dial while holding the lever pushed away from the handlebar grip. Make sure that the appropriate setting on the adjusting dial is aligned with the arrow mark on the clutch lever.

The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-24 for an explanation of the ignition circuit cut-off system.)



1. Shift pedal

EAU00157

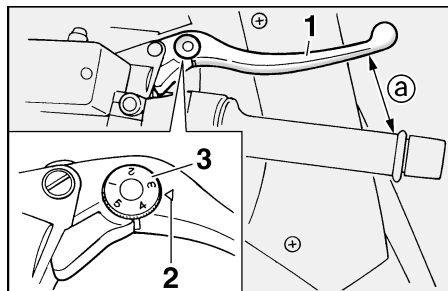
## Shift pedal

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.

## Brake lever

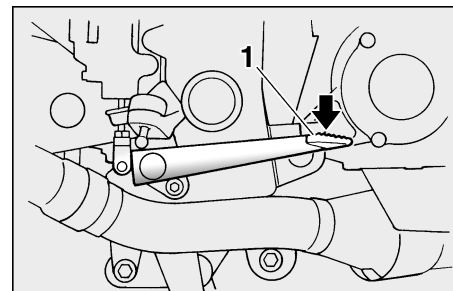
EAU26820

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



1. Brake lever
2. “△” mark
3. Brake lever position adjusting dial
- a. Distance between brake lever and handlebar grip

The brake lever is equipped with a position adjusting dial. To adjust the distance between the brake lever and the handlebar grip, turn the adjusting dial while holding the lever pushed away from the handlebar grip. Make sure that the appropriate setting on the “△” mark is aligned with the arrow mark on the brake lever.



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.

# INSTRUMENT AND CONTROL FUNCTIONS

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EAU26790

## ABS (For FJR1300A only)

The Yamaha ABS (Anti-lock Brake System) features a dual electronic control system, which acts on the front and rear brakes independently. The ABS securely controls wheel lockup during emergency braking on changing road surfaces and under various weather conditions, thereby maximizing tire adhesion and performance while providing a smooth braking action. The ABS is monitored by an ECU (Electronic Control Unit), which will have recourse to manual braking if a malfunction occurs.

EWA10090

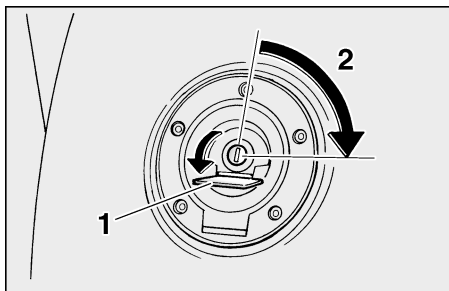


### WARNING

- **The ABS performs best on long braking distances.**
  - **On certain (rough or gravel) roads, the braking distance may be longer with than without the ABS. Therefore, always keep a sufficient distance to the vehicle ahead to match the riding speed.**
- 

### NOTE:

- When the ABS is activated, the brakes are operated in the usual way. A pulsating action may be felt at the brake lever or brake pedal, but this does not indicate a malfunction.
  - This ABS has a test mode which allows the owner to experience the pulsating at the brake lever or brake pedal when the ABS is operating. However, special tools are required, so please consult your Yamaha dealer when performing this test.
-



1. Fuel tank cap lock cover
2. Unlock.

EAU02935

## Fuel tank cap

### To open the fuel tank cap

Open the fuel tank cap lock cover, 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 opened.

### To close the fuel tank cap

1. Push the fuel tank cap into position with the key inserted in the lock.
2. Turn the key counterclockwise to the original position, remove it, and then close the lock cover.

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

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

EWA00025

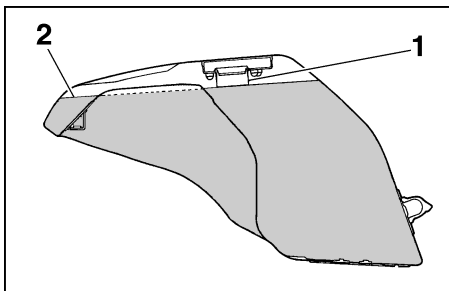


### WARNING \_\_\_\_\_

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

# INSTRUMENT AND CONTROL FUNCTIONS

3



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.

EAU00185

## CAUTION:

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

EAU04284

Recommended fuel:  
**REGULAR UNLEADED  
GASOLINE ONLY**

Fuel tank capacity:

Total amount:

25 L

Reserve amount:

5 L

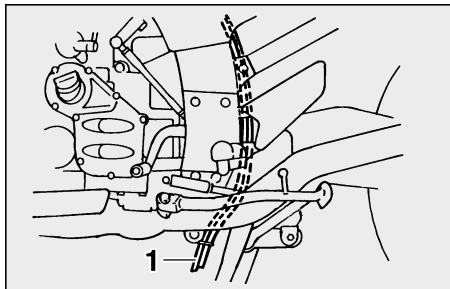
ECA00104

## 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.





1. Fuel tank breather hose

EAU02955

## Fuel tank breather hose

Before operating the motorcycle:

- Check the fuel tank breather hose connection.
- Check the fuel tank breather hose for cracks or damage, and replace it if damaged.
- Make sure that the end of the fuel tank breather hose is not blocked, and clean it if necessary.

## Catalytic converter

EAU01084

This motorcycle is equipped with a catalytic converter in the exhaust chamber.

EW000128

### **WARNING**

The exhaust system is hot after operation. Make sure that the exhaust system has cooled down before doing any maintenance work.

EC000114

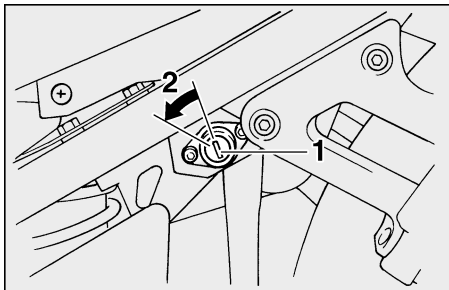
### **CAUTION:**

The following precautions must be observed to prevent a fire hazard or other damages.

- Use only unleaded gasoline. The use of leaded gasoline will cause unrepairable damage to the catalytic converter.
- Never park the motorcycle near possible fire hazards such as grass or other materials that easily burn.
- Do not allow the engine to idle too long.

# INSTRUMENT AND CONTROL FUNCTIONS

3



1. Rider seat lock
2. Unlock.

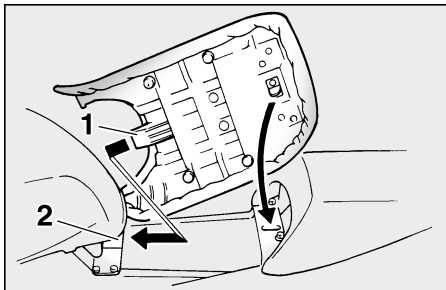
EAU03945

## Seats

### Rider seat

#### To remove the rider seat

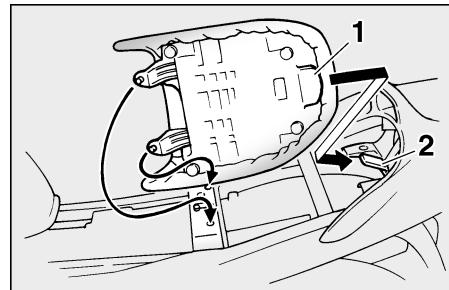
1. Insert the key into the seat lock, and then turn it as shown.
2. Pull the rider seat off.



1. Projection
2. Seat holder

#### To install the rider seat

1. Insert the projection on the front of the rider seat into the seat holder as shown, and then push the rear of the seat down to lock it in place.
2. Remove the key.



1. Receptacle
2. Seat holder

### Passenger seat

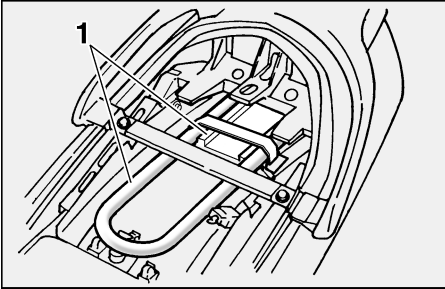
#### To remove the passenger seat

1. Remove the rider seat.
2. Pull the passenger seat up.

#### To install the passenger seat

1. Slide the receptacle on the rear of the passenger seat over the seat holder as shown, and then push the front of the seat down.
2. Install the rider seat.

**NOTE:** \_\_\_\_\_  
Make sure that the seats are properly secured before riding.



1. U-LOCK

EAU04292

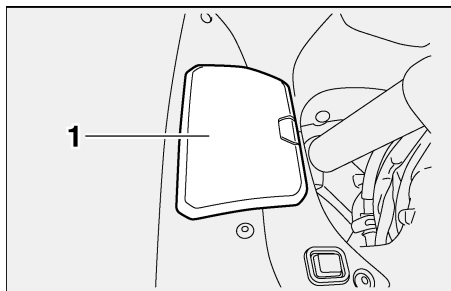
## Storage compartment

This storage compartment is designed to hold an optional genuine Yamaha U-LOCK. (Other locks may not fit.) When placing a U-LOCK in the storage compartment, securely fasten it with the straps. When the U-LOCK is not in the storage compartment, be sure to secure the straps to prevent losing them.

When storing the owner's manual or other documents in the storage compartment, be sure to wrap them in a plastic bag so that they will not get wet. When washing the motorcycle, be careful not to let any water enter the storage compartment.

# INSTRUMENT AND CONTROL FUNCTIONS

3



1. Accessory box

EAU26880

## Accessory box

The accessory box is located beside the meter panel.

### NOTE:

The accessory box can only be opened when the key is turned to “ON” and the transmission is in neutral.

ECA11800

### CAUTION:

**Do not place heat-sensitive items in the accessory box. The accessory box gets extremely hot especially when the engine is running or is hot.**

EWA11420

### ! WARNING

- Do not exceed the load limit of 0.3 kg for the accessory box.
- Do not exceed the maximum load of FJR1300: 201 kg / FJR1300A: 194 kg for the vehicle.

EAU03949

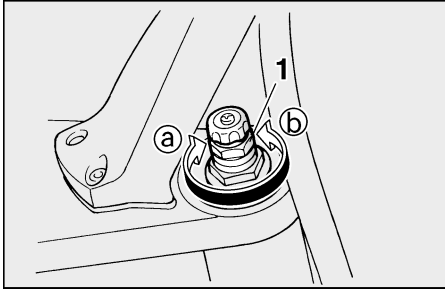
## Adjusting the front fork

This front fork is equipped with spring preload adjusting bolts, rebound damping force adjusting knobs and compression damping force adjusting screws.

EW000035

### ! WARNING

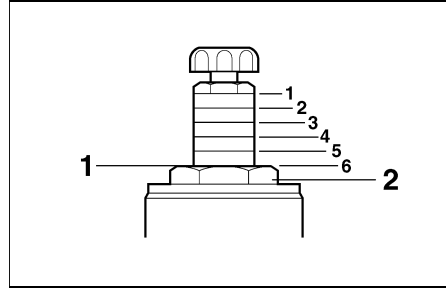
**Always adjust both fork legs equally, otherwise poor handling and loss of stability may result.**



1. Spring preload adjusting bolt

## Spring preload

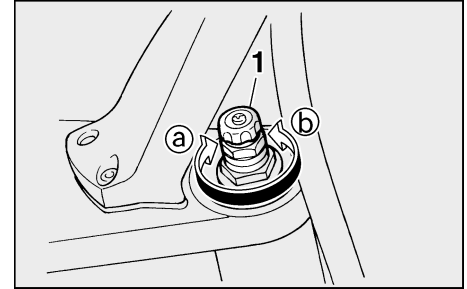
To increase the spring preload and thereby harden the suspension, turn the adjusting bolt on each fork leg in direction ①. To decrease the spring preload and thereby soften the suspension, turn the adjusting bolt on each fork leg in direction ②.



1. Current setting  
2. Front fork cap bolt

**NOTE:** \_\_\_\_\_  
Align the appropriate groove on the adjusting mechanism with the top of the front fork cap bolt.

	Setting
Minimum (soft)	6
Standard	4
Maximum (hard)	1



1. Rebound damping force adjusting knob

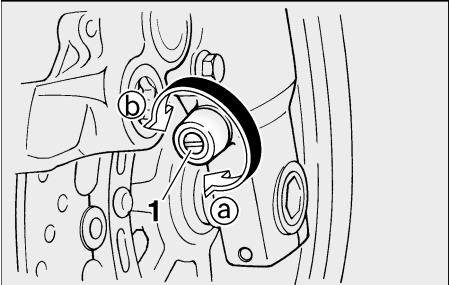
## Rebound damping force

To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting knob on each fork leg in direction ①. To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting knob on each fork leg in direction ②.

Minimum (soft)	17 clicks in direction ①*
Standard	12 clicks in direction ①*
Maximum (hard)	1 click in direction ②*

\* With the adjusting knob fully turned in direction ①

3



1. Compression damping force adjusting screw

Compression damping force

To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw on each fork leg in direction ③. To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw on each fork leg in direction ④.

Minimum (soft)	21 clicks in direction ④*
Standard	12 clicks in direction ④*
Maximum (hard)	1 click in direction ③*

\* With the adjusting screw fully turned in direction ③

EC000015

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

**NOTE:** Although the total number of clicks of a damping force adjusting mechanism may not exactly match the above specifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.

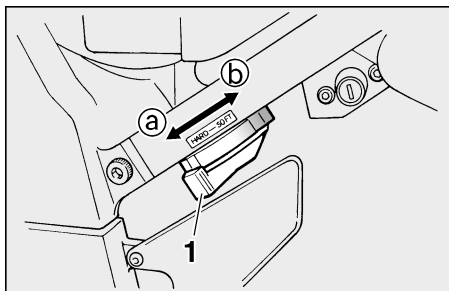
EAU03950

Adjusting the shock absorber assembly

This shock absorber assembly is equipped with a spring preload adjusting lever and a rebound damping force adjusting knob.

EC000015

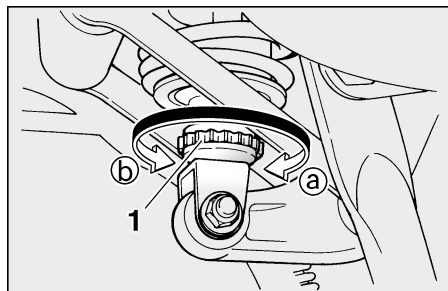
**CAUTION:** Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings.



1. Spring preload adjusting lever  
 a. "HARD"  
 b. "SOFT"

## Spring preload

For riding solo, move the spring preload adjusting lever to "SOFT". For riding with a passenger, move the spring preload adjusting lever to "HARD".



1. Rebound damping force adjusting knob

## Rebound damping force

To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting knob in direction ①. To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting knob in direction ②.

Minimum (soft)	20 clicks in direction ②*
Standard	10 clicks in direction ②*
Maximum (hard)	3 clicks in direction ②*

\* With the adjusting knob fully turned in direction ①

## ⚠ WARNING

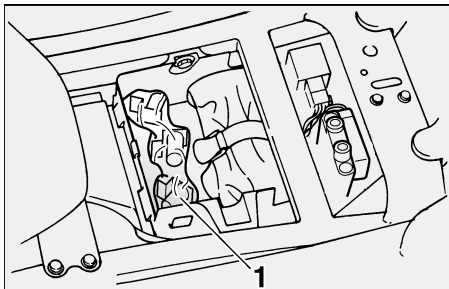
This shock absorber contains highly pressurized nitrogen gas. For proper handling, read and understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for property damage or personal injury that may result from improper handling.

- 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.

# INSTRUMENT AND CONTROL FUNCTIONS

EAU00330

EW000044



1. Plastic bag containing locks

EAU04043

## Locks for the optional side cases and travel trunk

There are three locks in a plastic bag located beside the owner's tool kit. When used to replace the locks of the optional side cases and travel trunk, which can be obtained at a Yamaha dealer, these locks can be operated with the ignition key. Keep these locks in a safe place to prevent losing them.

## 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.



EAU03741

EW000046

## 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.

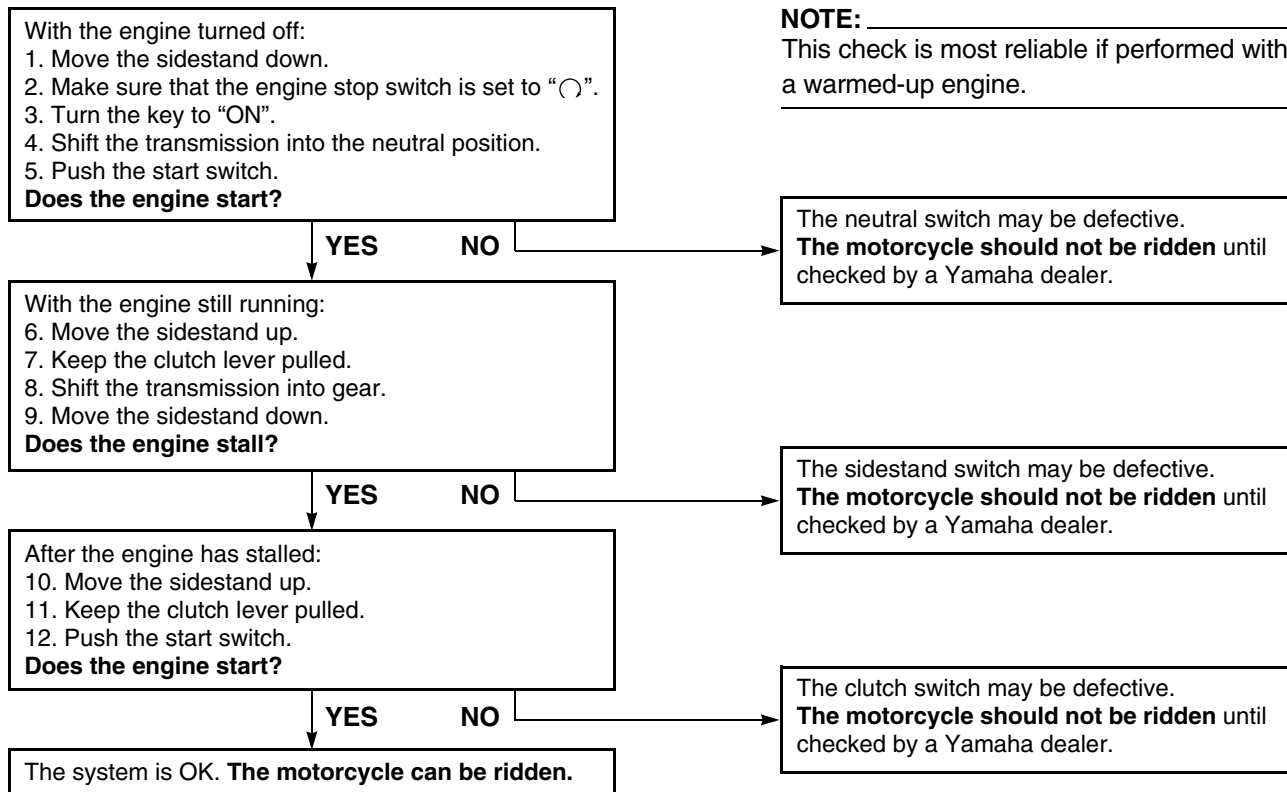
Periodically check the operation of the ignition circuit cut-off system according to the following procedure.

### **WARNING**

- **The vehicle must be placed on the centerstand during this inspection.**
- **If a malfunction is noted, have a Yamaha dealer check the system before riding.**

# INSTRUMENT AND CONTROL FUNCTIONS

3



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

# PRE-OPERATION CHECKS

EAU01114

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.

EAU03439

## Pre-operation check list

ITEM	CHECKS	PAGE
<b>Fuel</b>	<ul style="list-style-type: none"><li>• Check fuel level in fuel tank.</li><li>• Refuel if necessary.</li><li>• Check fuel line for leakage.</li></ul>	3-15
<b>Engine oil</b>	<ul style="list-style-type: none"><li>• Check oil level in engine.</li><li>• If necessary, add recommended oil to specified level.</li><li>• Check vehicle for oil leakage.</li></ul>	6-9
<b>Final gear oil</b>	<ul style="list-style-type: none"><li>• Check vehicle for oil leakage.</li></ul>	6-12
<b>Coolant</b>	<ul style="list-style-type: none"><li>• Check coolant level in reservoir.</li><li>• If necessary, add recommended coolant to specified level.</li><li>• Check cooling system for leakage.</li></ul>	6-13–6-14
<b>Front brake</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• If soft or spongy, have Yamaha dealer bleed hydraulic system.</li><li>• Check fluid level in reservoir.</li><li>• If necessary, add recommended brake fluid to specified level.</li><li>• Check hydraulic system for leakage.</li></ul>	6-22–6-24
<b>Rear brake</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• If soft or spongy, have Yamaha dealer bleed hydraulic system.</li><li>• Check fluid level in reservoir.</li><li>• If necessary, add recommended brake fluid to specified level.</li><li>• Check hydraulic system for leakage.</li></ul>	6-21–6-24
<b>Clutch</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• If soft or spongy, have Yamaha dealer bleed hydraulic system.</li><li>• Check fluid level in reservoir.</li><li>• If necessary, add recommended fluid to specified level.</li><li>• Check hydraulic system for leakage.</li></ul>	6-21, 6-24

# PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
<b>Throttle grip</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Check cable free play.</li> <li>• If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing.</li> </ul>	6-17, 6-25
<b>Brake and clutch cables</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate if necessary.</li> </ul>	6-25
<b>Wheels and tires</b>	<ul style="list-style-type: none"> <li>• Check for damage.</li> <li>• Check tire condition and tread depth.</li> <li>• Check air pressure.</li> <li>• Correct if necessary.</li> </ul>	6-17–6-20
<b>Brake and shift pedals</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate pedal pivoting points if necessary.</li> </ul>	6-26
<b>Brake and clutch levers</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate lever pivoting points if necessary.</li> </ul>	6-27
<b>Centerstand, sidestand</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate pivots if necessary.</li> </ul>	6-27–6-28
<b>Chassis fasteners</b>	<ul style="list-style-type: none"> <li>• Make sure that all nuts, bolts and screws are properly tightened.</li> <li>• Tighten if necessary.</li> </ul>	—
<b>Instruments, lights, signals and switches</b>	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Correct if necessary.</li> </ul>	—
<b>Sidestand switch</b>	<ul style="list-style-type: none"> <li>• Check operation of ignition circuit cut-off system.</li> <li>• If system is defective, have Yamaha dealer check vehicle.</li> </ul>	3-23

# PRE-OPERATION CHECKS

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## 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 the engine .....	5-1
Shifting .....	5-2
Recommended shift points (for Switzerland only) .....	5-3
Tips for reducing fuel consumption .....	5-3
Engine break-in .....	5-3
Parking .....	5-4

EAU00373

EAU26800

ECA11780

## 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 the engine

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.

EWA10290

## WARNING

- Before starting the engine, check the function of the ignition circuit cut-off system according to the procedure described on page 3-25.
  - Never ride with the sidestand down.
1. Turn the key to "ON" and make sure that the engine stop switch is set to "○".

## CAUTION:

The following warning lights and indicator light should come on for a few seconds, then go off.

- Oil level warning light
- Engine trouble warning light
- Immobilizer system indicator light
- ABS warning light

If a warning or indicator light does not go off, see pages 3-4–3-6 for the corresponding warning and indicator light circuit check.

2. 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.

3. Start the engine by pushing the start switch.



# OPERATION AND IMPORTANT RIDING POINTS

## 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.

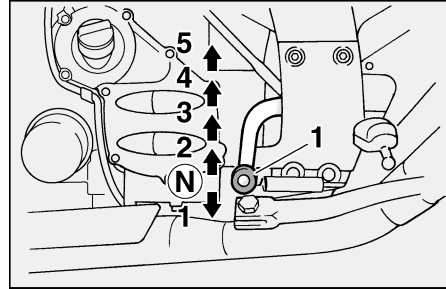
ECA11040

## CAUTION:

**For maximum engine life, never accelerate hard when the engine is cold!**

## NOTE:

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



- 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.

# OPERATION AND IMPORTANT RIDING POINTS

EAU02941

## Recommended shift points (for Switzerland only)

The recommended shift points during acceleration are shown in the table below.

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

### NOTE:

When shifting down two gears at a time, reduce the speed accordingly (e.g., down to 35 km/h when shifting from 4th to 2nd gear).

EAU04754

## Tips for reducing fuel consumption

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

- 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).

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.

# OPERATION AND IMPORTANT RIDING POINTS

## 0–1,000 km

EAU04032\*

Avoid prolonged operation above 5,000 r/min.

## 1,000–1,600 km

Avoid prolonged operation above 6,000 r/min.

EC000056\*

### CAUTION:

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

## 1,600 km and beyond

The vehicle can now be operated normally.

EC000053

### CAUTION:

- Keep the engine speed out of the tachometer red zone.
- If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle.

## Parking

EAU00461

When parking, stop the engine, and then remove the key from the main switch.

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.

EC000062

### CAUTION:

Never park in an area where there are fire hazards such as grass or other flammable materials.



# PERIODIC MAINTENANCE AND MINOR REPAIR

Owner's tool kit .....	6-1	Checking and lubricating the throttle grip and cable .....	6-25
Periodic maintenance and lubrication chart .....	6-2	Checking and lubricating the brake and shift pedals .....	6-26
Removing and installing panels .....	6-5	Checking and lubricating the brake and clutch levers .....	6-27
Checking the spark plugs .....	6-7	Checking and lubricating the centerstand and sidestand .....	6-27
Engine oil and oil filter cartridge .....	6-9	Lubricating the swingarm pivots .....	6-28
Final gear oil .....	6-12	Checking the front fork .....	6-29
Checking the coolant level .....	6-13	Checking the steering .....	6-29
Cleaning the air filter element .....	6-15	Checking the wheel bearings .....	6-30
Checking the engine idling speed .....	6-16	Battery .....	6-31
Adjusting the throttle cable free play .....	6-17	Replacing the fuses .....	6-32
Adjusting the valve clearance .....	6-17	Replacing a headlight bulb .....	6-33
Tires .....	6-17	Replacing an auxiliary light bulb .....	6-35
Cast wheels .....	6-20	Replacing a rear turn signal light bulb or a tail/brake light bulb .....	6-36
Clutch lever free play .....	6-21	Troubleshooting .....	6-36
Adjusting the brake pedal position .....	6-21	Troubleshooting charts .....	6-37
Adjusting the rear brake light switch .....	6-22		
Checking the front and rear brake pads .....	6-22		
Checking the brake and clutch fluid levels .....	6-23		
Changing the brake and clutch fluids .....	6-25		
Checking and lubricating the cables .....	6-25		

EAU00464

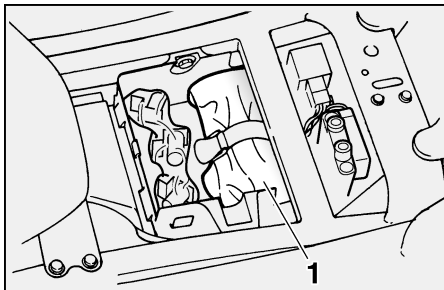
Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages.

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

EAU03711

## Owner's tool kit

The owner's tool kit is located under the rider seat. (See page 3-17 for rider seat removal and installation 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	* Spark plugs	• Check condition. • Clean and regap.		√		√		
		• Replace.			√		√	
3	* Valves	• Check valve clearance. • Adjust.	Every 40,000 km					
4	Air filter element	• Clean.		√		√		
		• Replace.			√		√	
5	* Clutch	• Check operation, fluid level and vehicle for fluid leakage. (See NOTE on page 6-4.)	√	√	√	√	√	
6	* 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					
7	* 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					
8	* 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	
9	* Wheels	• Check runout and for damage.		√	√	√	√	
10	* Tires	• Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary.		√	√	√	√	√
11	* Wheel bearings	• Check bearing for looseness or damage.		√	√	√	√	
12	* Swingarm	• Check operation and for excessive play.		√	√	√	√	
		• Lubricate with lithium-soap-based grease.	Every 50,000 km					
13	* Steering bearings	• Check bearing play and steering for roughness.	√	√	√	√	√	
		• Lubricate with lithium-soap-based grease.	Every 20,000 km					
14	* Chassis fasteners	• Make sure that all nuts, bolts and screws are properly tightened.		√	√	√	√	√
15	Sidestand/centerstand	• Check operation. • Lubricate.		√	√	√	√	√
16	* Sidestand switch	• Check operation.	√	√	√	√	√	√
17	* Front fork	• Check operation and for oil leakage.		√	√	√	√	
18	* Shock absorber assembly	• Check operation and shock absorber for oil leakage.		√	√	√	√	
19	* Rear suspension relay arm and connecting arm pivoting points	• Check operation.		√	√	√	√	
20	* Electronic fuel injection	• Adjust engine idling speed and synchronization.	√	√	√	√	√	√
21	Engine oil	• Change. • Check oil level and vehicle for oil leakage.	√	√	√	√	√	√



# PERIODIC MAINTENANCE AND MINOR REPAIR

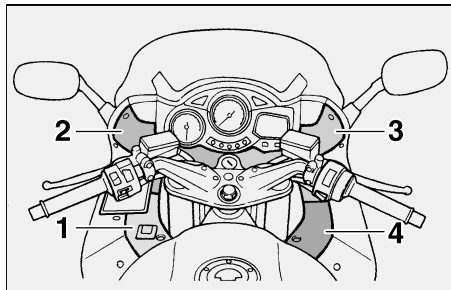
NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (× 1,000 km)					ANNUAL CHECK
			1	10	20	30	40	
22	Engine oil filter cartridge	• Replace.	√		√		√	
23	* Cooling system	• Check coolant level and vehicle for coolant leakage. • Change.		√	√	√	√	√
24	Final gear oil	• Check oil level and vehicle for oil leakage. • Change.	√	√	√	√	√	
25	* Front and rear brake switches	• Check operation.	√	√	√	√	√	√
26	Moving parts and cables	• Lubricate.		√	√	√	√	√
27	* Throttle grip housing and cable	• Check operation and free play. • Adjust the throttle cable free play if necessary. • Lubricate the throttle grip housing and cable.		√	√	√	√	√
28	* Muffler and exhaust pipe	• Check the screw clamp for looseness.	√	√	√	√	√	
29	* Lights, signals and switches	• Check operation. • Adjust headlight beam.	√	√	√	√	√	√

EAU04408

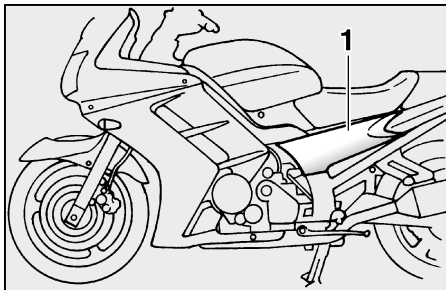
## NOTE:

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

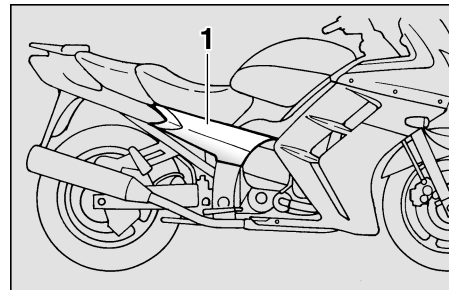
# PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Panel A
- 2. Panel B
- 3. Panel C
- 4. Panel D



- 1. Panel E



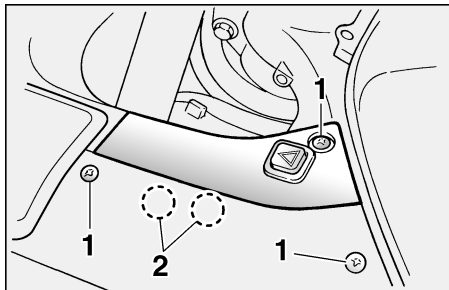
- 1. Panel F

EAU01122

## 6 Removing and installing panels

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

# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Screw (× 3)
2. Quick fastener screw (× 2)

EAU04061

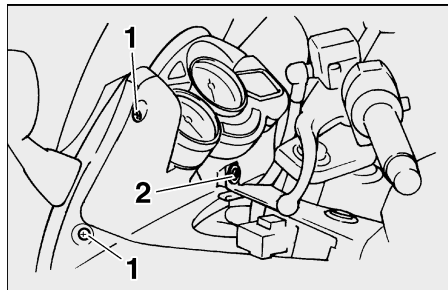
## Panel A

### To remove the panel

Remove the screws and the quick fastener screws, and then take the panel off.

### To install the panel

Place the panel in the original position, and then install the screws and the quick fastener screws.



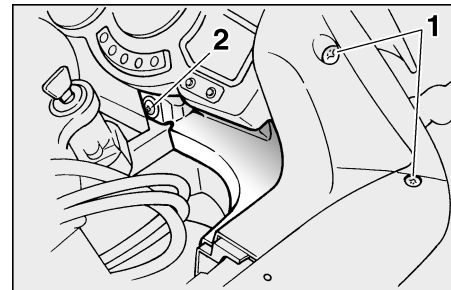
1. Screw (× 2)
2. Quick fastener

EAU04830

## Panels B and C

### To remove one of the panels

1. Remove panel A (if removing panel B) or panel D (if removing panel C).
2. Remove the quick fastener by pushing the center pin.
3. Remove the screws, and then take the panel off.

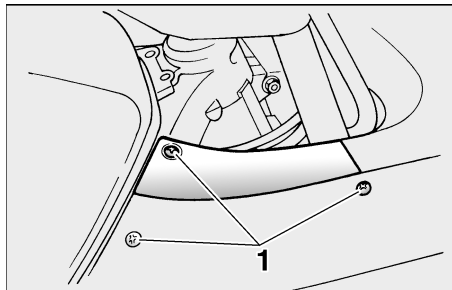


1. Screw (× 2)
2. Quick fastener

### To install the panel

1. Place the panel in the original position, and then install the quick fastener and the screws.
2. Install panel A (to complete the installation of panel B) or panel D (to complete the installation of panel C).

# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Screw (× 3)

EAU01315

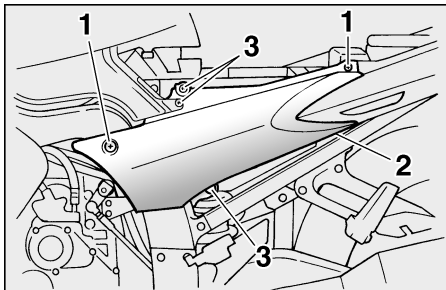
## Panel D

### To remove the panel

Remove the screws, and then take the panel off.

### To install the panel

Place the panel in the original position, and then install the screws.



1. Screw (× 2)
2. Quick fastener screw
3. Quick fastener (× 3)

EAU04506

## Panels E and F

### To remove one of the panels

1. Remove the seats. (See page 3-17 for seat removal and installation procedures.)
2. Remove the screws, the quick fastener screw and the quick fasteners, and then take the panel off.

### To install the panel

1. Place the panel in the original position, and then install the quick fasteners and quick fastener screw, and tighten the screws.
2. Install the seats.

EAU01880

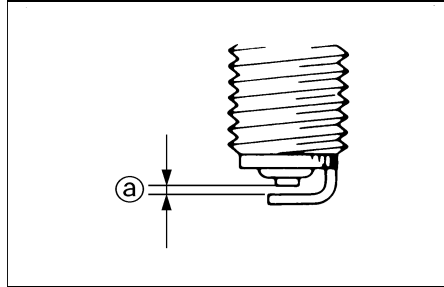
## Checking the spark plugs

The spark plugs are important engine components, which should be checked periodically, preferably by a Yamaha dealer. Since heat and deposits will cause any spark plug to slowly erode, they 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.

The porcelain insulator around the center electrode of each spark plug should be a medium-to-light tan (the ideal color when the motorcycle is ridden normally), and all spark plugs installed in the engine should have the same color. 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. If a spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

## PERIODIC MAINTENANCE AND MINOR REPAIR

Specified spark plug:  
CR8E (NGK) or  
U24ESR-N (DENSO)



a. Spark plug gap

Before installing a spark plug, the spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification.

Spark plug gap:  
0.7–0.8 mm

Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.

Tightening torque:  
Spark plug:  
12.5 Nm (1.25 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.

# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU05018

## Engine oil and oil filter cartridge

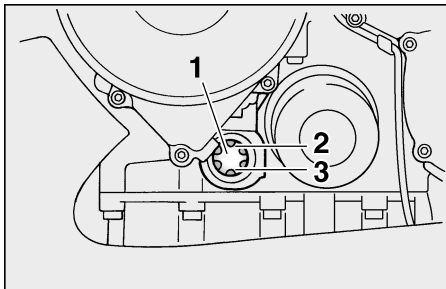
The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter cartridge replaced at the intervals specified in the periodic maintenance and lubrication chart.

### To check the engine oil level

1. Place the motorcycle on the centerstand.

**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.

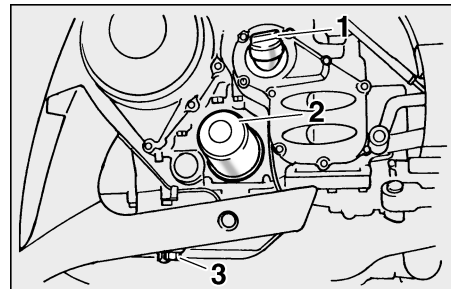


1. Engine oil level check window
2. Maximum level mark
3. Minimum level mark

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.



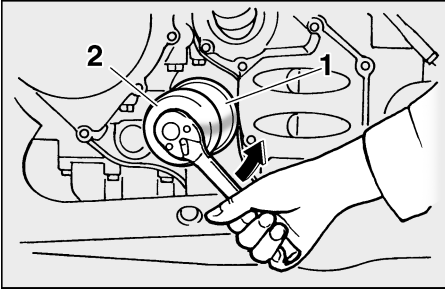
1. Engine oil filler cap
2. Engine oil filter cartridge
3. Engine oil drain bolt

### To change the engine oil (with or without oil filter cartridge replacement)

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.

**NOTE:** \_\_\_\_\_  
Skip steps 4–6 if the oil filter cartridge is not being replaced.

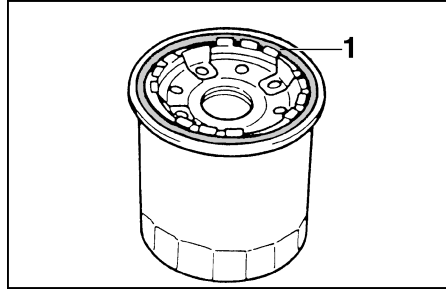
# PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Oil filter cartridge
- 2. Oil filter wrench

- 4. Remove the oil filter cartridge with an oil filter wrench.

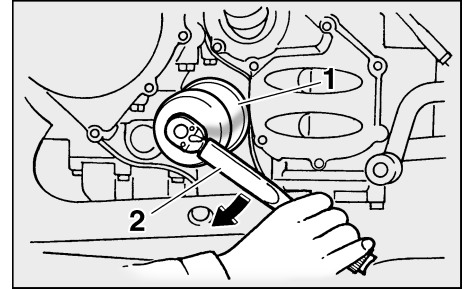
**NOTE:** \_\_\_\_\_  
An oil filter wrench is available at a Yamaha dealer.



- 1. O-ring

- 5. Apply a thin coat of engine oil to the O-ring of the new oil filter cartridge.

**NOTE:** \_\_\_\_\_  
Make sure that the O-ring is properly seated.



- 1. Oil filter cartridge
- 2. Torque wrench

- 6. Install the new oil filter cartridge, and then tighten it to the specified torque with a torque wrench.

Tightening torque:  
Oil filter cartridge:  
17 Nm (1.7 m·kgf)

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

**NOTE:** \_\_\_\_\_  
Check the washer for damage and replace it if necessary.

# PERIODIC MAINTENANCE AND MINOR REPAIR

ECA00133

EC000067

Tightening torque:

Engine oil drain bolt:

43 Nm (4.3 m·kgf)

8. Add the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

Recommended engine oil:

See page 8-1.

Oil quantity:

Without oil filter cartridge replacement:

3.8 L

With oil filter cartridge replacement:

4 L

Total amount (dry engine):

4.9 L

## CAUTION:

- In order to prevent clutch slip-page (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of “CD” or oils of a higher quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.

- Make sure that no foreign material enters the crankcase.

9. 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.

## CAUTION:

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

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



# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU04067

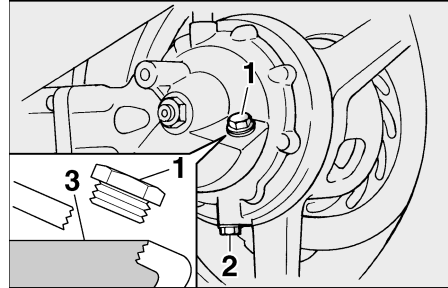
## Final gear oil

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 must be changed as follows at the intervals specified in the periodic maintenance and lubrication chart.

EW000066

### WARNING

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



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

### To check the final gear oil level

1. Place the motorcycle on the centerstand.

### 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.

# PERIODIC MAINTENANCE AND MINOR REPAIR

Recommended final gear oil:  
Shaft drive gear oil  
(Part No.: 9079E-SH001-00)  
Oil quantity:  
0.2 L

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

## Checking the coolant level

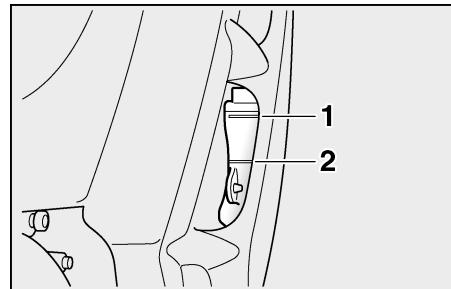
EAU04861

The coolant level should be checked as follows before each ride. In addition, the coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart.

1. Place the motorcycle on the centerstand.

### NOTE:

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



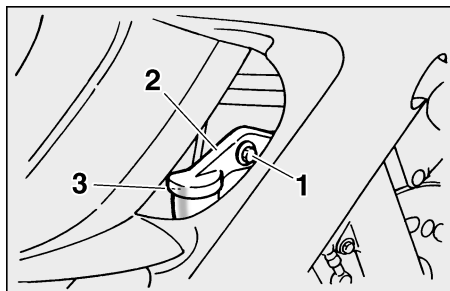
1. Maximum level mark
2. Minimum level mark

2. Check the coolant level in the coolant reservoir.

### NOTE:

The coolant should be between the minimum and maximum level marks.

# PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Bolt
- 2. Coolant reservoir cap cover
- 3. Coolant reservoir cap

- 3. If the coolant is at or below the minimum level mark, remove the bolt, the coolant reservoir cap cover and the reservoir cap.
- 4. Add coolant or distilled water to raise the coolant to the maximum level mark, install the coolant reservoir cap, the coolant reservoir cap cover and the bolt.

Coolant reservoir capacity  
(up to the maximum level mark):  
0.25 L

EC000080

## CAUTION:

- If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine.
- If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the engine may not be sufficiently cooled and the cooling system will not be protected against frost and corrosion.
- If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced.

EW000067

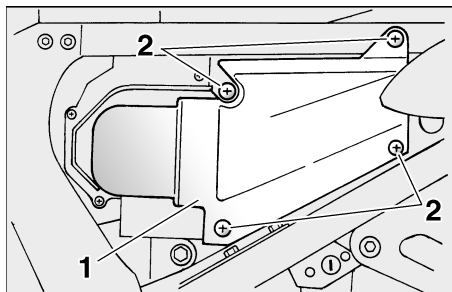
## ⚠ WARNING

Never attempt to remove the radiator cap when the engine is hot.

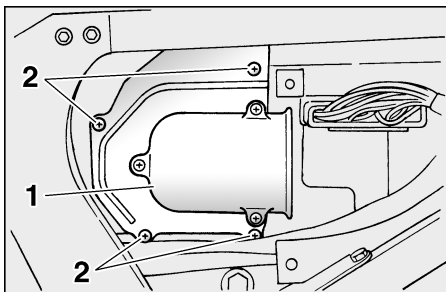
## NOTE:

- The radiator fan is automatically switched on or off according to the coolant temperature in the radiator.
- If the engine overheats, see page 6-38 for further instructions.

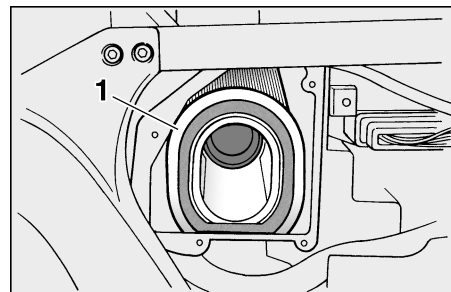
# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Intake air shroud
2. Quick fastener screw (× 4)



1. Air filter case cover
  2. Screw (× 4)
3. Remove the air filter case cover by removing the screws.



1. Air filter element
4. Pull the air filter element out.

## Cleaning the air filter element

EAU04509\*

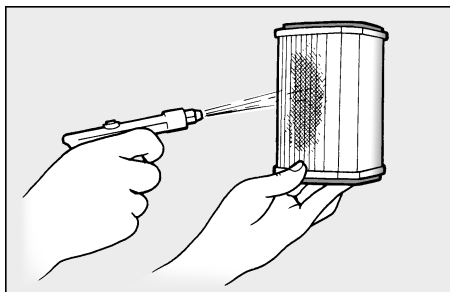
The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

1. Remove panel E. (See page 6-7 for panel removal and installation procedures.)
2. Remove the intake air shroud by removing the quick fastener screws.

# PERIODIC MAINTENANCE AND MINOR REPAIR

EC000082\*

EAU04033



5. 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.
6. Insert the air filter element into the air filter case.

## 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.**

7. Install the air filter case cover by installing the screws.
8. Install the intake air shroud by installing the quick fastener screws.
9. Install the panel.

## Checking the engine idling speed

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

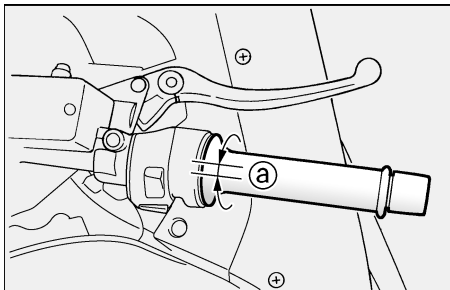
Start the engine and warm it up for several minutes at 1,000–2,000 r/min while occasionally revving it to 4,000–5,000 r/min.

## NOTE:

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

Engine idling speed:  
1,000–1,100 r/min

# PERIODIC MAINTENANCE AND MINOR REPAIR



a. Throttle cable free play

EAU00635

## Adjusting the throttle cable free play

The throttle cable free play should measure 3–5 mm at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it.

## Adjusting the valve clearance

EAU00637

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

EAU00658

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.

EW000082

### **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

EWA00012

Tire air pressure (measured on cold tires)		
Load*	Front	Rear
Up to 90 kg	250 kPa (2.50 kgf/cm <sup>2</sup> , 2.50 bar)	250 kPa (2.50 kgf/cm <sup>2</sup> , 2.50 bar)
90 kg–maximum	250 kPa (2.50 kgf/cm <sup>2</sup> , 2.50 bar)	290 kPa (2.90 kgf/cm <sup>2</sup> , 2.90 bar)
High-speed riding	250 kPa (2.50 kgf/cm <sup>2</sup> , 2.50 bar)	250 kPa (2.50 kgf/cm <sup>2</sup> , 2.50 bar)

Maximum load*	FJR1300: 201 kg FJR1300A: 194 kg
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\* Total weight of rider, passenger, cargo and accessories

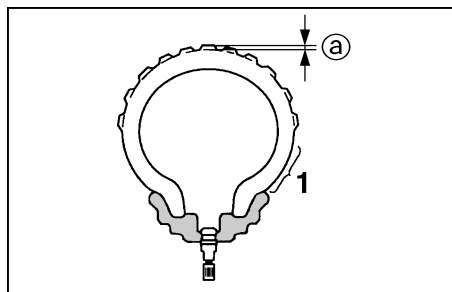
## WARNING

Because loading has an enormous impact on the handling, braking, performance and safety characteristics of your motorcycle, you should keep the following precautions in mind.

- **NEVER OVERLOAD THE MOTORCYCLE!** Operation of an overloaded motorcycle may result in tire damage, loss of control, or severe injury. Make sure that the total weight of rider, passenger, cargo, and accessories does not exceed the specified maximum load for the vehicle.
- Do not carry along loosely packed items, which can shift during a ride.
- Securely pack the heaviest items close to the center of the motorcycle and distribute the weight evenly on both sides.

- Adjust the suspension and tire air pressure with regard to the load.
- Check the tire condition and air pressure before each ride.

# PERIODIC MAINTENANCE AND MINOR REPAIR



- 1. Tire sidewall
- a. Tire tread depth

## Tire inspection

The tires must be checked before each ride. If the center tread depth reaches the specified limit, if the tire has a nail or glass fragments in it, or if the sidewall is cracked, have a Yamaha dealer replace the tire immediately.

Minimum tire tread depth (front and rear)	1.6 mm
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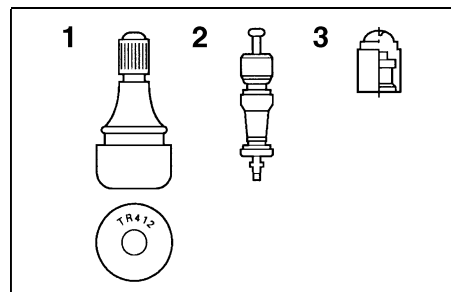
## NOTE:

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

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.



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

## Tire information

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

EW000080

## 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.



# PERIODIC MAINTENANCE AND MINOR REPAIR

- Always make sure that the valve caps are securely installed to prevent air pressure leakage.
- Use only the tire valves and valve cores listed below to avoid tire deflation during a high-speed ride.

## FRONT

Manufacturer	Size	Model
Metzeler	120/70 ZR17 M/C (58W)	MEZ4J FRONT
Bridgestone	120/70 ZR17 M/C (58W)	BT020FN

## REAR

Manufacturer	Size	Model
Metzeler	180/55 ZR17 M/C (73W)	MEZ4J
Bridgestone	180/55 ZR17 M/C (73W)	BT020RN

## FRONT & REAR

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

## WARNING

This motorcycle is fitted with super-high-speed tires. Note the following points in order to make the most efficient use of these tires.

- Use only the specified replacement tires. Other tires may run the danger of bursting at super high speeds.
- Brand-new tires can have a relatively poor grip on certain road surfaces until they have been “broken in”. Therefore, it is advisable before doing any high-speed riding to ride conservatively for approximately 100 km after installing a new tire.
- The tires must be warmed up before a high-speed run.
- Always adjust the tire air pressure according to the operating conditions.

EAU00684

EAU03773

## Cast 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 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.

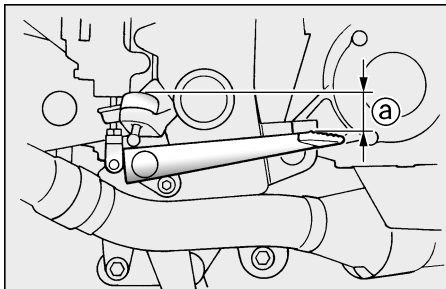
# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00695

## Clutch lever free play

Since this model is equipped with a hydraulic clutch, adjusting the clutch lever free play is not needed. However, it is necessary to check the clutch fluid level and check the hydraulic system for leakage before each ride. If the clutch lever free play does become excessive, and shifting becomes rough or clutch slippage occurs, causing poor acceleration, there may be air in the clutch system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle.

6



a. Distance between brake pedal and footrest

EAU00712

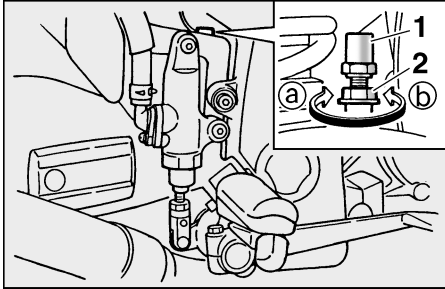
## Adjusting the brake pedal position

The top of the brake pedal should be positioned approximately 42 mm below the top of the footrest as shown. Periodically check the brake pedal position and, if necessary, have a Yamaha dealer adjust it.

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. Rear brake light switch
2. Rear brake light switch adjusting nut

EAU00713

## Adjusting the rear brake light switch

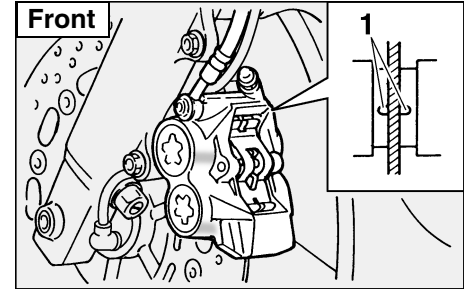
The rear brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

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 ①. To make the brake light come on later, turn the adjusting nut in direction ②.

EAU00721

## Checking the front and rear brake pads

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart.



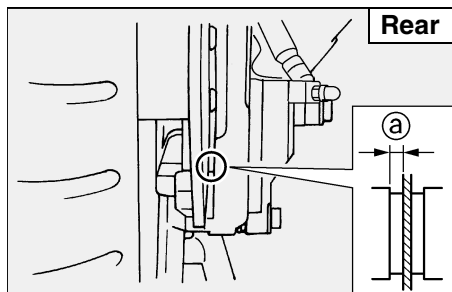
1. Brake pad wear indicator groove

EAU00725

## Front brake pads

Each front 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 groove. 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

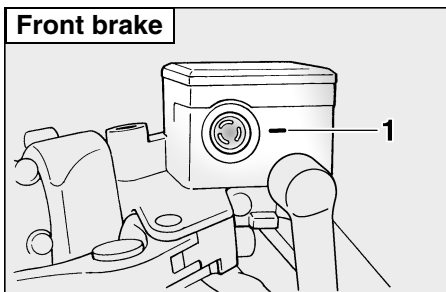


a. Lining thickness

EAU04510

## Rear brake pads

Check each rear brake pad for damage and measure the lining thickness. If a brake pad is damaged or if the lining thickness is less than 0.8 mm, have a Yamaha dealer replace the brake pads as a set.



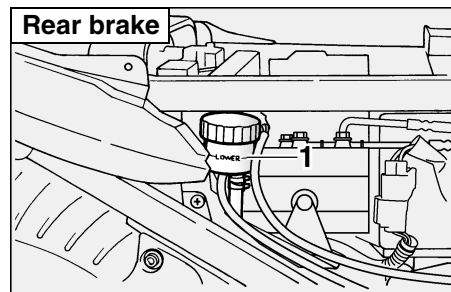
1. Minimum level mark

EAU05024

## Checking the brake and clutch fluid levels

Insufficient brake fluid may allow air to enter the brake or clutch systems, possibly causing them 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 fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.



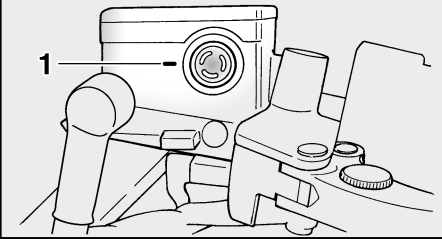
1. Minimum level mark

## NOTE:

The rear brake fluid reservoir is located behind panel F. (See page 6-7 for panel removal and installation procedures.)

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Clutch



1. Minimum level mark

Observe these precautions:

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

Recommended brake and clutch fluid: DOT 4 brake fluid

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking or clutch performance.
- The brake or clutch fluid reservoir diaphragm will lose its shape from the negative pressure if the fluid level goes down too far. Be sure to return the diaphragm to its original shape before installing it into the brake or clutch fluid reservoir.
- Be careful that water does not enter the brake or clutch fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock, and dirt may clog the ABS hydraulic unit valves.
- 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 and clutch fluids

EAU03984

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

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

## Checking and lubricating the cables

EAU02962

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



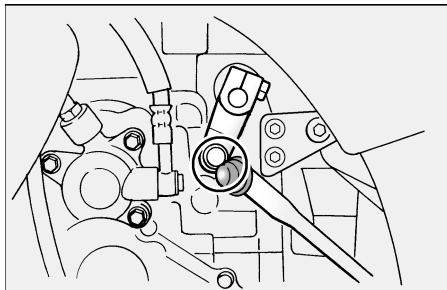
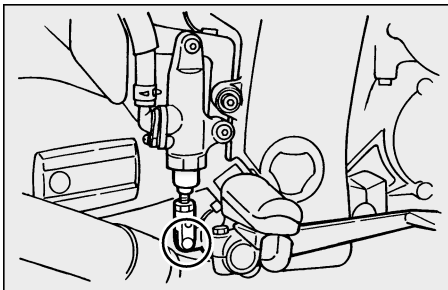
**Damage to the outer sheath may interfere with proper cable operation and will cause the inner cable to rust. Replace a damaged cable as soon as possible to prevent unsafe conditions.**

## 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

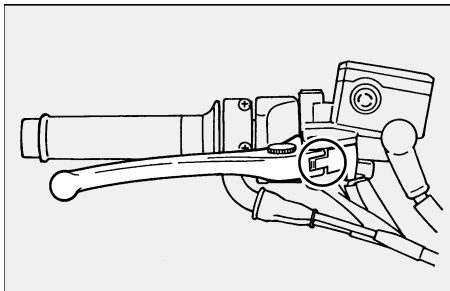
### Checking and lubricating the brake and shift pedals

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)

# PERIODIC MAINTENANCE AND MINOR REPAIR

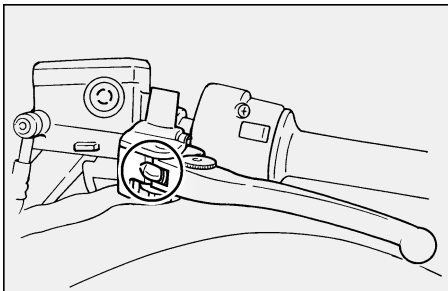


EAU03164

## 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)



EAU03371

## Checking and lubricating the centerstand and sidestand

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

EW000114

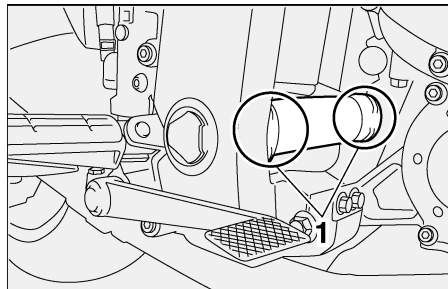
### **WARNING**

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



# PERIODIC MAINTENANCE AND MINOR REPAIR

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



1. Pivoting point (× 2)

EAUM1380

## Lubricating the swingarm pivots

The swingarm pivots must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:  
Lithium-soap-based grease

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Checking the front fork

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

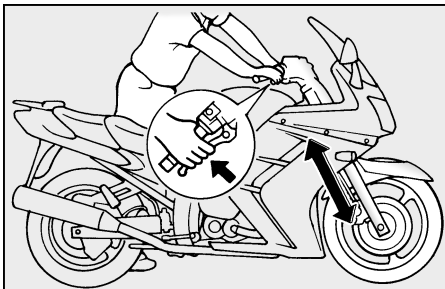
#### **WARNING**

**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.

EAU02939

EW000115



### 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.**

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.

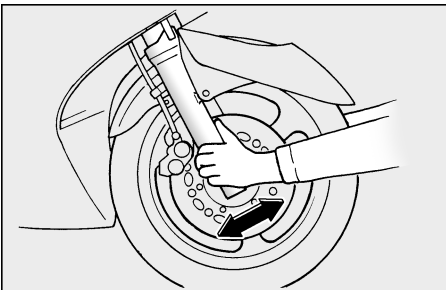
1. Place a stand under the engine to raise the front wheel off the ground.

EW000115

#### **WARNING**

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

# PERIODIC MAINTENANCE AND MINOR REPAIR



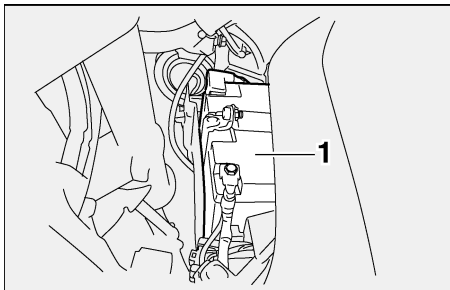
EAU01144

## 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.

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.

# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Battery

EAU04832

## Battery

The battery is located under panels C and D. (See pages 6-6 and 6-7 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.

### 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.

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.**

### To store the battery

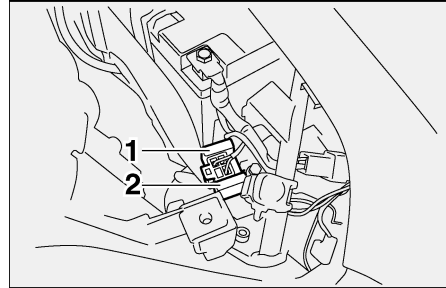
1. If the motorcycle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
3. Fully charge the battery before installation.

# PERIODIC MAINTENANCE AND MINOR REPAIR

EC000102

## 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.



1. Electronic fuel injection fuse
2. Electronic fuel injection spare fuse

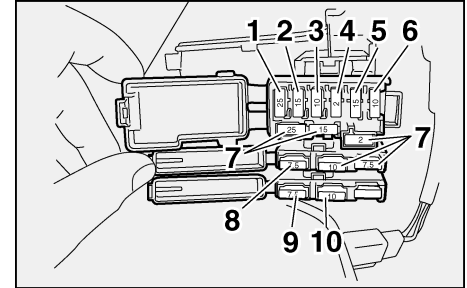
EAU05025

## Replacing the fuses

The fuse box, which contains the fuses for the individual circuits, is located under panel A. Both the electronic fuel injection fuse and the main fuse are located under panel D. The main fuse is located beside the battery. (See pages 6-6 and 6-7 for panel removal and installation procedures.)

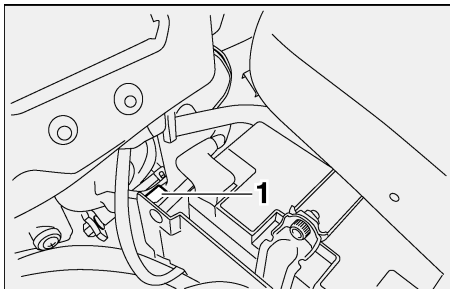
If a fuse is blown, replace it as follows.

1. Turn the key to "OFF" and turn off the electrical circuit in question.
2. Remove the blown fuse, and then install a new fuse of the specified amperage.



1. Headlight fuse
2. Signaling system fuse
3. Ignition fuse
4. Windshield motor fuse
5. Radiator fan fuse
6. Odometer, clock and immobilizer system fuse (backup fuse)
7. Spare fuse (× 5)
8. Hazard fuse
9. Anti-lock Brake System fuse (For FJR1300A only)
10. Parking lighting fuse

# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Main fuse

## Specified fuses:

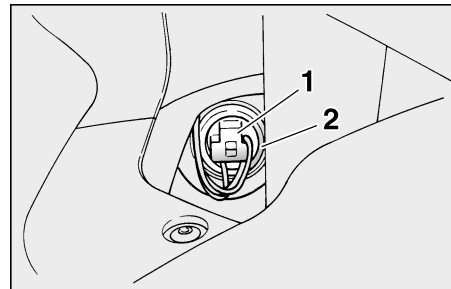
Main fuse:	50 A
Headlight fuse:	25 A
Signaling system fuse:	15 A
Ignition fuse:	10 A
Windshield motor fuse:	2 A
Radiator fan fuse:	15 A
Odometer, clock and immobilizer system fuse (backup fuse):	10 A
Hazard fuse:	7.5 A
Parking lighting fuse:	10 A
Electronic fuel injection fuse:	15 A
Anti-lock Brake System fuse	
(For FJR1300A only):	7.5 A

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.**

3. Turn the key to "ON" and turn on the electrical circuit in question to check if the device operates.
4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.



1. Headlight coupler
2. Headlight bulb cover

EAU04586

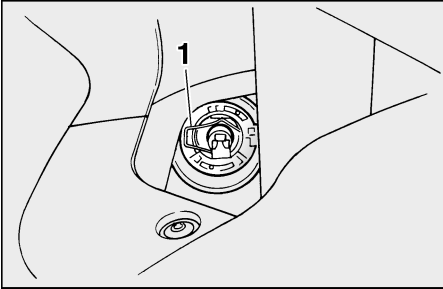
## Replacing a headlight bulb

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

1. Remove panel B (if replacing the left headlight bulb) or panel C (if replacing the right headlight bulb). (See page 6-6 for panel removal and installation procedures.)
2. Disconnect the headlight coupler, and then remove the headlight bulb cover.

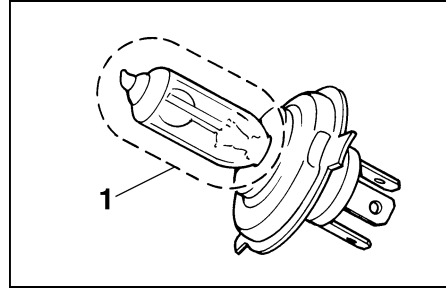
# PERIODIC MAINTENANCE AND MINOR REPAIR

EC000104



1. Headlight bulb holder

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



1. Do not touch the glass part of the 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.

## **CAUTION:**

Take care not to damage the following parts:

- **Headlight bulb**

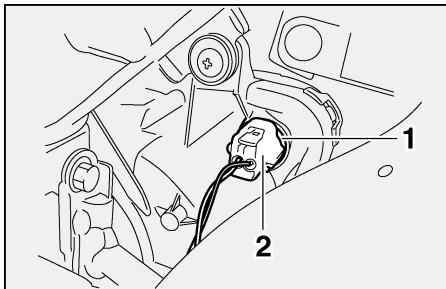
Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

- **Headlight lens**

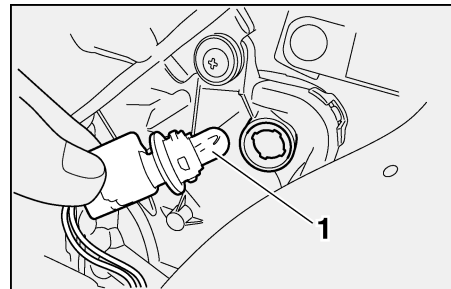
- Do not affix any type of tinted film or stickers to the headlight lens.
- Do not use a headlight bulb of a wattage higher than specified.

## PERIODIC MAINTENANCE AND MINOR REPAIR

5. Install the headlight bulb cover, and then connect the coupler.
6. Install the panel.
7. Have a Yamaha dealer adjust the headlight beam if necessary.



1. Auxiliary light socket
2. Auxiliary light coupler



1. Auxiliary light bulb

### Replacing an auxiliary light bulb

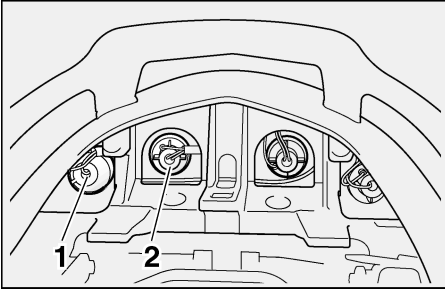
EAU05022

This motorcycle is equipped with two auxiliary lights. If an auxiliary light bulb burns out, replace it as follows.

1. Remove panel B (if replacing the left auxiliary light bulb) or panel C (if replacing the right auxiliary light bulb). (See page 6-6 for panel removal and installation procedures.)
2. Remove the auxiliary light socket (together with the coupler) by turning the socket counterclockwise.

3. Remove the defective bulb by pulling it out.
4. Insert a new bulb into the socket.
5. Install the auxiliary light socket (together with the coupler) by pushing it in and turning it clockwise.





1. Turn signal light bulb socket
2. Tail/brake light bulb socket

EAU05019

## Replacing a rear turn signal light bulb or a tail/brake light bulb

1. Remove the passenger seat. (See page 3-17 for passenger seat removal and installation procedures.)
2. Remove the socket (together with the bulb) by turning it counter-clockwise.
3. Remove the defective bulb by turning it counterclockwise.

4. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
5. Install the socket (together with the bulb) by turning it clockwise.
6. Install the passenger seat.

## 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 charts represent quick and easy procedures 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

EAU02990

## Troubleshooting charts

### Starting problems or poor engine performance

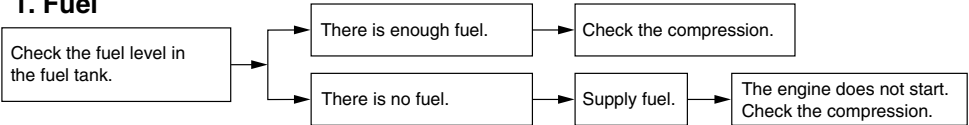
EW000125



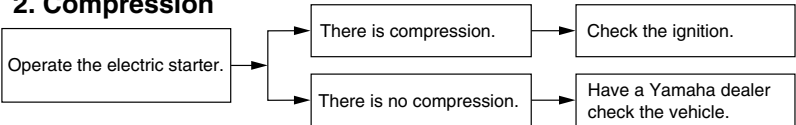
**WARNING**

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

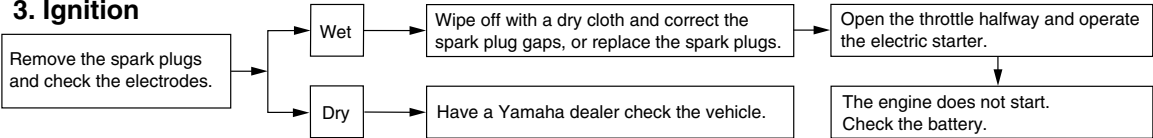
#### 1. Fuel



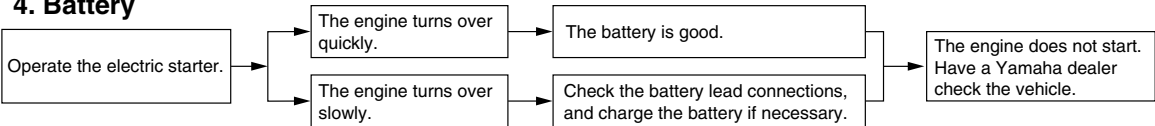
#### 2. Compression



#### 3. Ignition



#### 4. Battery



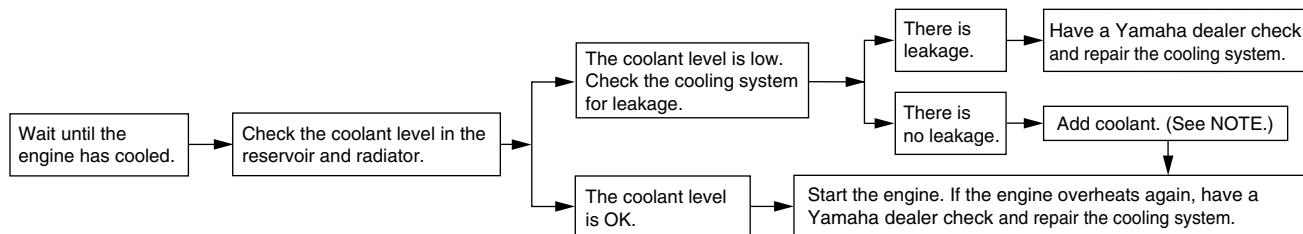
# PERIODIC MAINTENANCE AND MINOR REPAIR

## Engine overheating

EW000070

### **WARNING**

- Do not remove the radiator cap when the engine and radiator are hot. Scalding hot fluid and steam may be blown out under pressure, which could cause serious injury. Be sure to wait until the engine has cooled.
- After removing the radiator cap retaining bolt, place a thick rag, like a towel, over the radiator cap, and then slowly rotate the cap counterclockwise to the detent to allow any residual pressure to escape. When the hissing sound has stopped, press down on the cap while turning it counterclockwise, and then remove the cap.



### **NOTE:**

If coolant is not available, tap water can be temporarily used instead, provided that it is changed to the recommended coolant as soon as possible.



# MOTORCYCLE CARE AND STORAGE

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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.**

# MOTORCYCLE CARE AND STORAGE

- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.
- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel 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 windshield 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.

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.

# MOTORCYCLE CARE AND STORAGE

---

## 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.**

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. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
3. 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.
- 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.

EWA00003



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

# MOTORCYCLE CARE AND STORAGE

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4. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand.
5. 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.
6. Cover the muffler outlets with plastic bags to prevent moisture from entering them.
7. 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 6-31.

**NOTE:** \_\_\_\_\_  
Make any necessary repairs before  
storing the motorcycle.  
\_\_\_\_\_

Specifications ..... 8-1

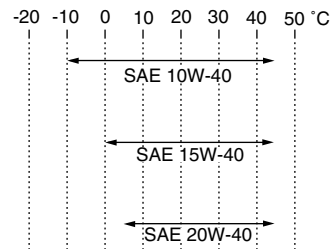
Conversion table ..... 8-5

## Specifications

<b>Model</b>	<b>FJR1300/FJR1300A</b>
<b>Dimensions</b>	
Overall length	2,195 mm
Overall width	760 mm
Overall height	1,435 mm
Seat height	805 mm
Wheelbase	1,515 mm
Ground clearance	135 mm
Minimum turning radius	3,100 mm
<b>Basic weight (with oil and full fuel tank)</b>	
FJR1300	275 kg
FJR1300A	282 kg
<b>Engine</b>	
Engine type	Liquid-cooled 4-stroke, DOHC
Cylinder arrangement	Forward-inclined parallel 4-cylinder
Displacement	1,298 cm <sup>3</sup>
Bore × stroke	79.0 × 66.2 mm
Compression ratio	10.8:1
Starting system	Electric starter
Lubrication system	Wet sump

## Engine oil

### Type



Recommended engine oil classification

API Service SE, SF, SG or higher

### CAUTION:

**In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of “CD” or oils of a higher quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.**

### Quantity

Without oil filter cartridge replacement	3.8 L
With oil filter cartridge replacement	4 L
Total amount (dry engine)	4.9 L

## Final gear oil

Type	Shaft drive gear oil (Part No.: 9079E-SH001-00)
Quantity	0.2 L

## Cooling system capacity (total amount)

3.3 L

## Air filter

Dry element

## Fuel

Type	REGULAR UNLEADED GASOLINE ONLY
------	-----------------------------------

Fuel tank capacity 25 L

Fuel reserve amount 5 L

## Electronic Fuel Injection system

Model	INP-732/4
Manufacturer	NIPPON INJECTOR

## Spark plug

Manufacturer/model NGK / CR8E or  
DENSO / U24ESR-N

Gap 0.7–0.8 mm

## Clutch type

Wet, multiple-disc

## Transmission

Primary reduction system	Helical gear
Primary reduction ratio	1.563
Secondary reduction system	Shaft drive
Secondary reduction ratio	2.773

## Transmission type

Constant-mesh 5-speed

## Operation

Left foot

## Gear ratio

1st	2.529
2nd	1.773
3rd	1.348
4th	1.077
5th	0.929

## Chassis

Frame type Diamond

Caster angle 26°

Trail 109 mm

## Tires

### Front

Type	Tubeless tire
Size	120/70 ZR17 M/C (58 W)
Manufacturer/model	Metzeler / MEZ4J FRONT Bridgestone / BT020FN

### Rear

Type	Tubeless tire
Size	180/55 ZR17 M/C (73 W)
Manufacturer/model	Metzeler / MEZ4J Bridgestone / BT020RN

# SPECIFICATIONS

## Maximum load\*

FJR1300 201 kg

FJR1300A 194 kg

## Tire air pressure (measured on cold tires)

### Up to 90 kg\*

Front 250 kPa (2.50 kgf/cm<sup>2</sup>, 2.50 bar)

Rear 250 kPa (2.50 kgf/cm<sup>2</sup>, 2.50 bar)

### 90 kg–maximum\*

Front 250 kPa (2.50 kgf/cm<sup>2</sup>, 2.50 bar)

Rear 290 kPa (2.90 kgf/cm<sup>2</sup>, 2.90 bar)

### High-speed riding

Front 250 kPa (2.50 kgf/cm<sup>2</sup>, 2.50 bar)

Rear 250 kPa (2.50 kgf/cm<sup>2</sup>, 2.50 bar)

\* Total weight of rider, passenger, cargo and accessories

## Wheels

### Front

Type Cast wheel

Size 17 M/C × MT 3.50

### Rear

Type Cast wheel

Size 17 M/C × MT 5.50

## 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

135 mm

### Rear

125 mm

## Electrical system

### Ignition system

T.C.I. (digital)

### Charging system

Type A.C. magneto

Standard output 14 V, 490 W @ 5,000 r/min

Battery	
Model	GT14B-4
Voltage, capacity	12 V, 12 Ah
<b>Headlight type</b>	Halogen bulb
<b>Bulb voltage, wattage × quantity</b>	
Headlight	12 V, 60/55 W × 2
Tail/brake light	12 V, 5/21 W × 2
Turn signal light	12 V, 21 W × 4
Auxiliary light	12 V, 5 W × 2
Meter lighting	14 V, 1.12 W × 4
Neutral indicator light	14 V, 1.12 W × 1
High beam indicator light	14 V, 1.12 W × 1
Turn signal indicator light	14 V, 1.4 W × 2
Engine trouble warning light	14 V, 1.12 W × 1
Oil level warning light	14 V, 1.12 W × 1
ABS warning light (For FJR1300A only)	14 V, 1.12 W × 1
Immobilizer system indicator light	L.E.D.
<b>Fuses</b>	
Main fuse	50 A
Electronic fuel injection fuse	15 A
Headlight fuse	25 A
Signaling system fuse	15 A
Radiator fan fuse	15 A

Ignition fuse	10 A
Odometer, clock and immobilizer system fuse (backup fuse)	10 A
Parking lighting fuse	10 A
Hazard fuse	7.5 A
Windshield motor fuse	2 A
Anti-lock Brake System fuse (For FJR1300A only)	7.5 A

# SPECIFICATIONS

EAU04513

## 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	× 0.03937	=	0.08 in

Conversion table

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



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Key identification number .....	9-1
Vehicle identification number .....	9-1
Model label .....	9-2

## Identification numbers

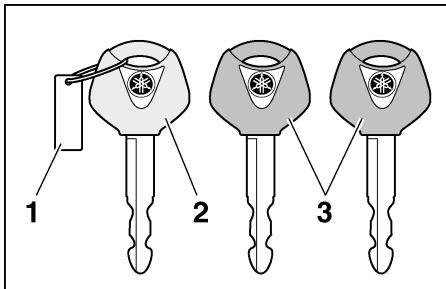
Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

### 1. KEY IDENTIFICATION NUMBER:

### 2. VEHICLE IDENTIFICATION NUMBER:

### 3. MODEL LABEL INFORMATION:

EAU02944

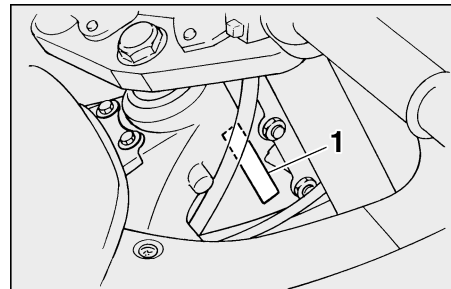


1. Key identification number
2. Code re-registering key (red bow)
3. Standard key (× 2, black bow)

EAU01041

## Key identification number

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.



1. Vehicle identification number

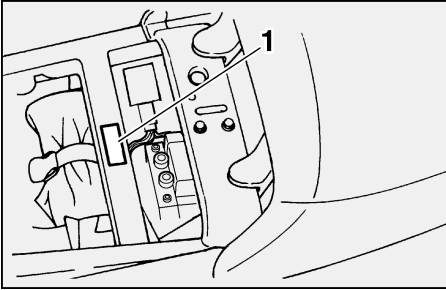
EAU01043

## Vehicle identification number

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

### NOTE:

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



1. Model label

EAU01804

## Model label

The model label is affixed to the frame under the rider seat. (See page 3-17 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.

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PRINTED ON RECYCLED PAPER

PRINTED IN JAPAN  
2002.11-0.8×2 CR  
(E)