

A Read this manual carefully before operating this vehicle.

**OWNER'S MANUAL** 

FJR13AD(C)

1MC-28199-10

LIT-11626-26-45

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EAU10042

# **A WARNING**

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

YAMAHA LIT-CALIF-65-01

Read this manual carefully before operating this vehicle. This manual should stay with this vehicle if it is sold.

## INTRODUCTION

EAU10083

Congratulations on your purchase of the Yamaha FJR13AD(C). This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

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

The design and manufacture of this Yamaha motorcycle fully comply with the emissions standards for clean air applicable at the date of manufacture. Yamaha has met these standards without reducing the performance or economy of operation of the motorcycle. To maintain these high standards, it is important that you and your Yamaha dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.

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

EWA10011



Please read this manual and the "YOU AND YOUR MOTORCYCLE: RIDING TIPS" booklet carefully before operating this motorcycle. Do not attempt to operate this motorcycle until you have attained adequate knowledge of its controls and operating features. Regular inspections and careful maintenance, along with good operating techniques, will help ensure that you safely enjoy the capabilities and reliability of this motorcycle.

# **IMPORTANT MANUAL INFORMATION**

EAU10133

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

$\triangle$	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.	
<b>⚠</b> WARNING	A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.	
NOTICE	A NOTICE indicates special precautions that must be taken to avoid damage to to vehicle or other property.	
TIP	A TIP provides key information to make procedures easier or clearer.	

<sup>\*</sup>Product and specifications are subject to change without notice.

# IMPORTANT MANUAL INFORMATION

EAU10193

FJR13AD(C)
OWNER'S MANUAL
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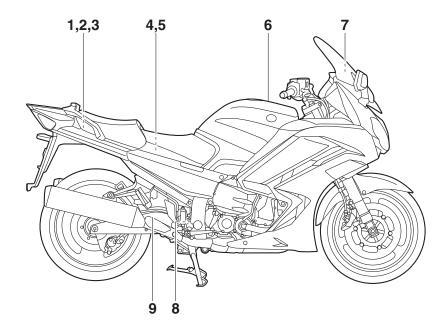
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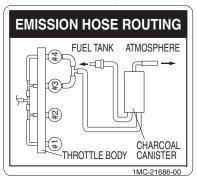
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Read and understand all of the labels on your vehicle. They contain important information for safe and proper operation of your vehicle. Never remove any labels from your vehicle. If a label becomes difficult to read or comes off, a replacement label is available from your Yamaha dealer.

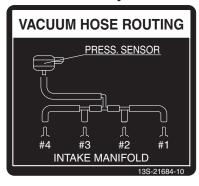
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## 1 California only



## 2 California only



3



4



5

## **AWARNING**

Improper loading can cause loss of control. Read owner's manual for proper loading.

3JJ-28446-A1

6

### **AWARNING**

- BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eve protection, and protective clothing.

5GK-2118K-00

7

### NOTICE

- Cleaning with alkaline or acid cleaner, gasoline or solvent will damage windshield.
- Use neutral detergent.

B5-2815K-00

8

### **AWARNING**

This unit contains high pressure nitrogen gas. Mishandling can cause explosion.

- Read owner's manual for instructions.
- Do not incinerate, puncture or open.

4AA-22259-80

9

### TIRE INFORMATION

Cold tire normal pressure should be set as follows.

Up to 90 kg (198 lbs) load

FRONT : 250 kPa, {2.50 kgf/cm²}, 36 psi REAR : 290 kPa, {2.90 kgf/cm²}, 42 psi

• 90 kg (198 lbs) ~ maximum load

FRONT : 250 kPa, {2.50 kgf/cm²}, 36 psi REAR : 290 kPa, {2.90 kgf/cm²}, 42 psi

5VY-21668-00

EAU1028A

### Be a Responsible Owner

As the vehicle's owner, you are responsible for the safe and proper operation of your motorcycle.

Motorcycles are single-track vehicles. Their safe use and operation are dependent upon the use of proper riding techniques as well as the expertise of the operator. Every operator should know the following requirements before riding this motorcycle.

He or she should:

- Obtain thorough instructions from a competent source on all aspects of motorcycle operation.
- Observe the warnings and maintenance requirements in this Owner's Manual.
- Obtain qualified training in safe and proper riding techniques.
- Obtain professional technical service as indicated in this Owner's Manual and/or when made necessary by mechanical conditions.

 Never operate a motorcycle without proper training or instruction.
 Take a training course. Beginners should receive training from a certified instructor. Contact an authorized motorcycle dealer to find out about the training courses nearest you.

### Safe Riding

Perform the pre-operation checks each time you use the vehicle to make sure it is in safe operating condition. Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. See page 5-1 for a list of pre-operation checks.

- This motorcycle is designed to carry the operator and a passenger.
- The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making

yourself conspicuous appears to be very effective in reducing the chance of this type of accident.

#### Therefore:

- Wear a brightly colored jacket.
- Use extra caution when you are approaching and passing through intersections, since intersections are the most likely places for motorcycle accidents to occur.
- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Never maintain a motorcycle without proper knowledge. Contact an authorized motorcycle dealer to inform you on basic motorcycle maintenance. Certain maintenance can only be carried out by certified staff.

- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
  - Make sure that you are qualified and that you only lend your motorcycle to other qualified operators.
  - Know your skills and limits.
     Staying within your limits may help you to avoid an accident.
  - We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with the motorcycle and all of its controls.
- Many accidents have been caused by error of the motorcycle operator. A typical error made by the operator is veering wide on a turn due to excessive speed or undercornering (insufficient lean angle for the speed).
  - Always obey the speed limit and never travel faster than warranted by road and traffic conditions.

- Always signal before turning or changing lanes. Make sure that other motorists can see you.
- The posture of the operator and passenger is important for proper control.
  - The operator should keep both hands on the handlebar and both feet on the operator footrests during operation to maintain control of the motorcycle.
  - The passenger should always hold onto the operator, the seat strap or grab bar, if equipped, with both hands and keep both feet on the passenger footrests. Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.
- Never ride under the influence of alcohol or other drugs.
- This motorcycle is designed for onroad use only. It is not suitable for off-road use.

### **Protective Apparel**

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

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

### **Avoid Carbon Monoxide Poisoning**

All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion, and eventually death.

Carbon Monoxide is a colorless, odorless, tasteless gas which may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and SEEK MEDICAL TREATMENT.

- Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.
- Do not run engine in poorly ventilated or partially enclosed areas such as barns, garages, or carports.

 Do not run engine outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.

### Loading

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

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit. Operation of an overloaded vehicle could cause an accident.

### Maximum load:

FJR13AD 215 kg (474 lb) FJR13ADC 214 kg (472 lb) When loading within this weight limit, keep the following in mind:

- Cargo and accessory weight should be kept as low and close to the motorcycle as possible. Securely pack your heaviest items as close to the center of the vehicle as possible and make sure to distribute the weight as evenly as possible on both sides of the motorcycle to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the motorcycle before riding. Check accessory mounts and cargo restraints frequently.
  - Properly adjust the suspension for your load (suspension-adjustable models only), and check the condition and pressure of your tires.
  - Never attach any large or heavy items to the handlebar, front fork, or front fender. These items, including such cargo as sleeping bags, duffel bags, or

tents, can create unstable handling or a slow steering response.

 This vehicle is not designed to pull a trailer or to be attached to a sidecar.

### **Genuine Yamaha Accessories**

Choosing accessories for your vehicle is an important decision. Genuine Yamaha accessories, which are available only from a Yamaha dealer, have been designed, tested, and approved by Yamaha for use on your vehicle. Many companies with no connection to Yamaha manufacture parts and accessories or offer other modifications for Yamaha vehicles. Yamaha is not in a position to test the products that these aftermarket companies produce. Therefore, Yamaha can neither endorse nor recommend the use of accessories not sold by Yamaha or

modifications not specifically recom-

mended by Yamaha, even if sold and

installed by a Yamaha dealer.

# Aftermarket Parts, Accessories, and Modifications

While you may find aftermarket products similar in design and quality to genuine Yamaha accessories, recognize that some aftermarket accessories or modifications are not suitable because of potential safety hazards to you or others. Installing aftermarket products or having other modifications performed to your vehicle that change any of the vehicle's design or operation characteristics can put you and others at greater risk of serious injury or death. You are responsible for injuries related to changes in the vehicle.

Keep the following guidelines in mind, as well as those provided under "Loading" when mounting accessories.

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

- Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.
- Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds. These accessories may also cause instability when passing or being passed by large vehicles.
- Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the opera-

- tor and may limit control ability, therefore, such accessories are not recommended.
- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

### **Aftermarket Tires and Rims**

The tires and rims that came with your motorcycle were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort. Other tires, rims, sizes, and combinations may not be appropriate. Refer to page 7-21 for tire specifications and more information on replacing your tires.

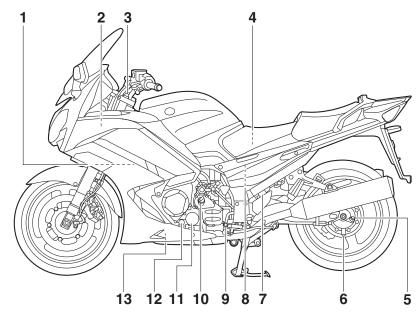
### **Transporting the Motorcycle**

Be sure to observe following instructions before transporting the motorcycle in another vehicle.

 Remove all loose items from the motorcycle.

- Check that the fuel cock (if equipped) is in the "OFF" position and that there are no fuel leaks.
- Point the front wheel straight ahead on the trailer or in the truck bed, and choke it in a rail to prevent movement.
- Shift the transmission in gear (for models with a manual transmission).
- Secure the motorcycle with tiedowns or suitable straps that are attached to solid parts of the motorcycle, such as the frame or upper front fork triple clamp (and not, for example, to rubber-mounted handlebars or turn signals, or parts that could break). Choose the location for the straps carefully so the straps will not rub against painted surfaces during transport.
- The suspension should be compressed somewhat by the tiedowns, if possible, so that the motorcycle will not bounce excessively during transport.

Left view

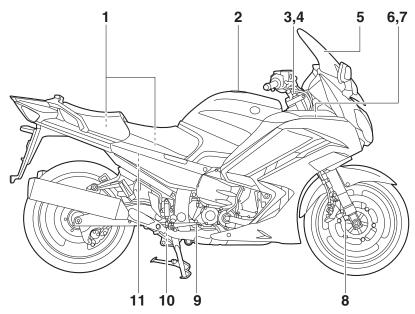


- 1. Coolant reservoir (page 7-17)
- 2. Accessory box (page 4-35)
- 3. Front fork spring preload adjusting bolt (page 4-38)
- 4. Owner's tool kit (page 7-2)
- 5. Final gear oil filler bolt (page 7-16)
- 6. Final gear oil drain bolt (page 7-16)
- 7. Shock absorber assembly spring preload adjusting lever (page 4-40)
- 8. Air filter element (page 7-18)

- 9. Shift pedal (page 4-23)
- 10. Engine oil filler cap (page 7-13)
- 11. Engine oil filter cartridge (page 7-13)
- 12. Engine oil level check window (page 7-13)
- 13. Engine oil drain bolt (page 7-13)

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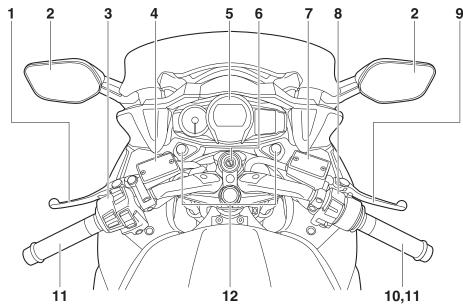
## **Right view**



- 1. Storage compartment (page 4-34)
- 2. Fuel tank cap (page 4-27)
- 3. Front fork spring preload adjusting bolt (page 4-38)
- 4. Front fork rebound damping force adjusting knob (page 4-38)
- 5. Windshield (page 4-10)
- 6. Fuses (page 7-33)
- 7. Battery (page 7-32)
- 8. Front fork compression damping force adjusting screw (page 4-38)

- 9. Brake pedal (page 4-24)
- 10.Shock absorber assembly rebound damping force adjusting knob (page 4-40)
- 11.Rear brake fluid reservoir (page 7-26)

## **Controls and instruments**



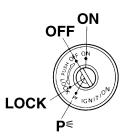
- 1. Clutch lever (page 4-23)
- 2. Rear view mirror (page 4-37)
- 3. Left handlebar switches (page 4-21)
- 4. Clutch fluid reservoir (page 7-26)
- 5. Multi-function meter unit (page 4-8)
- 6. Main switch/steering lock (page 4-1)
- 7. Front brake fluid reservoir (page 7-26)
- 8. Right handlebar switches (page 4-21)

- 9. Brake lever (page 4-24)
- 10. Throttle grip (page 7-20)
- 11.Grip warmer (page 4-10)
- 12. Headlight beam adjusting knob (page 4-35)

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## Main switch/steering lock



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

EAU51500

### ON

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

### TIP\_

The headlights come on automatically when the engine is started and stay on until the key is turned to "OFF".

OFF

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

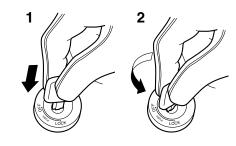
**WARNING** 

Never turn the key to "OFF" or "LOCK" while the vehicle is moving. Otherwise the electrical systems will be switched off, which may result in loss of control or an accident.

### LOCK

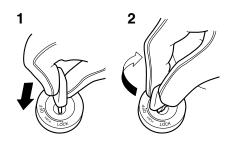
The steering is locked, and all electrical systems are off. The key can be removed.

To lock the steering



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

### To unlock the steering



- 1. Push.
- 2. Turn.

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

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## p∈ (Parking)

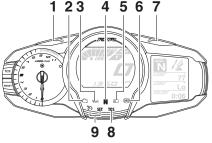
The steering is locked, and the taillights, license plate light, auxiliary lights and position lights are on. The hazard lights and turn signal lights can be turned on, but all other electrical systems are off. The key can be removed. The steering must be locked before the key can be turned to "p≤".

## **NOTICE**

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

ECA11020

## Indicator lights and warning lights



- 1. Left turn signal indicator light "<□"
- 2. Engine trouble warning light " + " "
- 3. Oil level warning light "
- 4. Neutral indicator light " N "
- 5. High beam indicator light "≣○"
- 6. Anti-lock Brake System (ABS) warning light "(@)"
- 8. Traction control system indicator/warning light "TCS"
- 9. Cruise control indicator lights

### Turn signal indicator lights "<>" and "⇔"

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

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Neutral indicator light "N"

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

High beam indicator light "≣∩"

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

EAU11123

Oil level warning light " ~ "

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

The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light should come on for a few seconds, and then go off. If the warning light does not come on initially when the key is turned to "ON", or if the warning light remains on, have a Yamaha dealer check the electrical circuit.

TIP.

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.

Cruise control indicator lights

See page 4-4 for an explanation of these indicator lights.

Engine trouble warning light " 📇 "

This warning light comes on or flashes if a problem is detected in the electrical circuit monitoring the engine. If this occurs, have a Yamaha dealer check the self-diagnosis system. (See page 4-20 for an explanation of the self-diagnosis device.)

The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light should come on for a few seconds, and then go off. If the warning light does not come on initially when the key is turned to "ON", or if the warning light remains on, have a Yamaha dealer check the electrical circuit.

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ABS warning light "

"

In normal operation, the ABS warning light comes on when the key is turned to "ON", and goes off after traveling at a speed of 10 km/h (6 mi/h) or higher. If the ABS warning light:

- does not come on when the key is turned to "ON"
- comes on or flashes while riding
- does not go off after traveling at a speed of 10 km/h (6 mi/h) or higher

The ABS may not work correctly. If any of the above occurs, have a Yamaha dealer check the system as soon as possible. (See page 4-24 for an explanation of the ABS.)

EWA16040

**WARNING** 

If the ABS warning light does not go off after traveling at a speed of 10 km/h (6 mi/h) or higher, or if the warning light comes on or flashes

while riding, the brake system reverts to conventional braking. If either of the above occurs, or if the warning light does not come on at all, use extra caution to avoid possible wheel lock during emergency braking. Have a Yamaha dealer check the brake system and electrical circuits as soon as possible.

TIP\_

If the start switch is pushed while the engine is running, the ABS warning light will come on, but this is not a malfunction.

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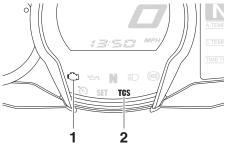
# Traction control system indicator/warning light "TCS"

This indicator/warning light flashes when the traction control system engages and comes on when the system is turned off.

The electrical circuit of the light can be checked by turning the key to "ON". The light should come on for a few seconds, and then go off.

If the light does not come on initially when the key is turned to "ON", or if the light remains on, have a Yamaha dealer check the electrical circuit.

If the traction control system becomes disabled while riding, the indicator/warning light and engine trouble warning light come on. (See page 4-25 for an explanation of the traction control system.)



- 1. Engine trouble warning light "元"
- Traction control system indicator/warning light "TCS"

Try to reset the traction control system and the lights by following the procedures under "Resetting" on page 4-26.

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## **Cruise control system**

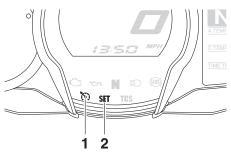
This model is equipped with a cruise control system designed to maintain a set cruising speed.

The cruise control system operates only when riding in 3rd, 4th or 5th gear at speeds between about 50 km/h (31 mi/h) and 128 km/h (80 mi/h).

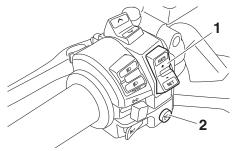
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## **WARNING**

- Improper use of the cruise control system may result in loss of control, which could lead to an accident. Do not activate the cruise control system in heavy traffic, poor weather conditions, or among winding, slippery, hilly, rough or gravel roads.
- When traveling uphill or downhill, the cruise control system may not be able to maintain the set cruising speed.



- 1. Cruise control system indicator light "%"
- 2. Cruise control setting indicator light "SET"



- 1. Cruise control setting switch "RES+/SET-"
- 2. Cruise control power switch " (5)"

# Activating and setting the cruise control system

- 1. Push the cruise control power switch "\(\operatorname{n}\)" located on the left handlebar. The cruise control system indicator light "\(\operatorname{n}\)" will come on.
- 2. Push the "SET—" side of the cruise control setting switch to activate the cruise control system. Your current traveling speed will become the set cruising speed. The cruise control setting indicator light "SET" will come on.

### Adjusting the set cruising speed

While the cruise control system is operating, push the "RES+" side of the cruise control setting switch to increase the set cruising speed or the "SET-" side to decrease the set speed.

### TIP

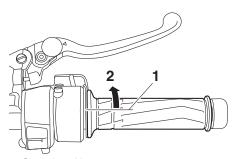
Pushing the setting switch once will change the speed in increments of approximately 2.0 km/h (1.2 mi/h). Holding the "RES+" or "SET—" side of the cruise control setting switch down will increase or decrease the speed continuously until the switch is released.

You can also manually increase your traveling speed using the throttle. After you have accelerated, you can set a new cruising speed by pushing the "SET—" side of the setting switch. If you do not set a new cruising speed, when you return the throttle grip, the vehicle will decelerate to the previously set cruising speed.

# Deactivating the cruise control system

Perform one of the following operations to cancel the set cruising speed. The "SET" indicator light will go off.

 Turn the throttle grip past the closed position in the deceleration direction.



- Closed position
- 2. Cruise control cancel direction
  - Apply the front or rear brake.
  - Disengage the clutch.

Push the power switch to turn off the cruise control system. The "\(\varphi\)" indicator light and the "SET" indicator light will go off.

### TIP

Traveling speed decreases as soon as the cruise control system is deactivated; unless the throttle grip is turned.

### Using the resume function

Push the "RES+" side of the cruise control setting switch to reactivate the cruise control system. The traveling

speed will return to the previously set cruising speed. The "SET" indicator light will come on.

## **WARNING**

EWA16350

It is dangerous to use the resume function when the previously set cruising speed is too high for current conditions.

#### TIP

- The resume function operates when riding in 3rd, 4th or 5th gear at speeds between about 50 km/h (31 mi/h) and 128 km/h (80 mi/h).
- Pushing the power switch while the system is operating will turn the system off completely and erase the previously set cruising speed. You will not be able to use the resume function until a new cruising speed has been set.

# Automatic deactivation of the cruise control system

The cruise control system for this model is electronically controlled and is linked with the other control systems.

The cruise control system will automatically become deactivated under the following conditions:

- The cruise control system is not able to maintain the set cruising speed.
- Wheel slip or wheel spin is detected. (If the traction control system has not been turned off, the traction control system will work.)
- The start/engine stop switch is set to the "⋈" position.
- The engine stalls.
- The sidestand is lowered.

When traveling with a set cruising speed, if the cruise control system is deactivated under the above conditions, the "so," indicator light will go off and the "SET" indicator light will flash for 4 seconds, and then go off.

When not traveling with a set cruising speed, if the start/engine stop switch is set to the "\omega" position, the engine stalls, or the sidestand is lowered, then the "\omega" indicator light will go off (the "SET" indicator light will not flash).

If the cruise control system is automatically deactivated, please stop and confirm that your vehicle is in good operating condition.

Before using the cruise control system again, activate it using the power switch.

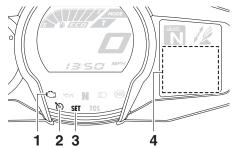
### TIP

In some cases, the cruise control system may not be able to maintain the set cruising speed when the vehicle is traveling uphill or downhill.

- When the vehicle is traveling uphill, the actual traveling speed may become lower than the set cruising speed. If this occurs, accelerate to the desired traveling speed using the throttle.
- When the vehicle is traveling downhill, the actual traveling speed may become higher than the set cruising speed. If this occurs, the setting switch cannot be used to adjust the set cruising speed. To reduce the traveling speed, apply the brakes. When the

brakes are applied, the cruise control system will become deactivated.

### Self-diagnosis device



- 1. Engine trouble warning light " " "
- 2. Cruise control system indicator light "%"
- 3. Cruise control setting indicator light "SET"
- 4. Error code display

The cruise control system will also become deactivated when an irregularity with any of the vehicle systems is detected. The "SET" indicator light will go off and the "Si" indicator light will flash. You will not be able to use the cruise control system while the engine trouble warning light is on, or while the cruise control system is malfunctioning.

# **WARNING**

Yamaha dealer check it.

If the cruise control system is not working correctly, the "\(\overline{c}\)," indicator light will flash. If this occurs, turn the cruise control system off and have a

ECA11590

EWA16360

## **NOTICE**

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

FWA12422

### **Multi-function meter unit**

12 3 4 5 6 7 8 9 10 11

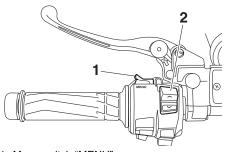
- 1. "RESET" button
- 2. "TCS" button
- 3. Tachometer
- 4. Clock
- 5. Fuel meter
- 6. Eco indicator "ECO"
- 7. Drive mode display
- 8. Speedometer
- 9. Transmission gear display
- 10. Function display
- 11.Information display

**WARNING** 

Be sure to stop the vehicle before making any setting changes to the multi-function meter unit. Changing settings while riding can distract the operator and increase the risk of an accident.

#### TIP

The select switch "\rightarrow\" and the menu switch "MENU" are located on the left handlebar. These switches allow you to control or change the settings of the multi-function meter unit.



- 1. Menu switch "MENU"
- 2. Select switch " / V "

The multi-function meter unit is equipped with the following:

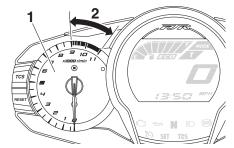
- a speedometer
- a tachometer
- a clock
- a fuel meter
- a transmission gear display

- a drive mode display (which shows the selected drive mode)
- a function display (which shows the selected function)
- an information display (which shows various information, such as the odometer reading)
- a setting mode display (which allows you to set, select, or reset the items shown in the information display)
- a self-diagnosis device

### TIP \_\_\_\_\_

- Be sure to turn the key to "ON" before pushing the select switch "∧/√", menu switch "MENU", "RESET" button and "TCS" button.
- To switch the meter displays between kilometers and miles, see page 4-14.

### **Tachometer**



- 1. Tachometer
- 2. Tachometer red zone

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 sweeps once across the r/min range and then returns to zero r/min in order to test the electrical circuit.

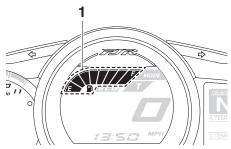
ECA10031

### **NOTICE**

Do not operate the engine in the tachometer red zone.

Red zone: 9000 r/min and above

#### **Fuel meter**



1. Fuel meter

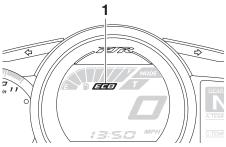
The fuel meter indicates the amount of fuel in the fuel tank. The display segments of the fuel meter disappear towards "E" (Empty) as the fuel level decreases. When the last segment starts flashing, refuel as soon as possible.

When the key is turned to "ON", all display segments come on once in order to test the electrical circuit.

#### TIF

This fuel meter is equipped with a selfdiagnosis system. If a problem is detected in the electrical circuit, all display segments start flashing. If this occurs, have a Yamaha dealer check the electrical circuit.

### **Eco indicator**



1. Eco indicator "ECO"

This indicator comes on when the vehicle is being operated in an environmentally friendly, fuel-efficient manner. The indicator goes off when the vehicle is stopped.

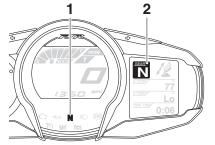
#### TIF

Consider the following tips to reduce fuel consumption:

- Avoid high engine speeds during acceleration.
- Travel at a constant speed.

 Select the transmission gear that is appropriate for the vehicle speed.

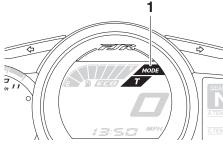
### Transmission gear display



- 1. Neutral indicator light " N "
- 2. Transmission gear display

This display shows the selected gear. The neutral position is indicated by "N" and by the neutral indicator light "N".

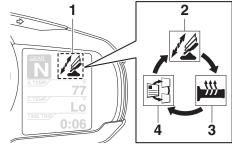
## **Drive mode display**



1. Drive mode display

This display indicates which drive mode has been selected: Touring mode "T" or sports mode "S". For more details on the modes and on how to select them, see pages 4-20 and 4-22.

## **Function display**



- 1. Function display
- 2. Windshield adjusting function
- 3. Grip warmer adjusting function
- 4. Information display selection function

Push the menu switch "MENU" to switch the display between the windshield adjusting function, grip warmer adjusting function, and information display selection function.

### Adjusting the windshield position

To move the windshield up, push the "\[ \times \]" side of the select switch. To move the windshield down, push the "\[ \times \]" side of the select switch.

## Adjusting the grip warmer

This vehicle is equipped with grip warmers, which can only be used when the engine is running. There are 4 grip warmer settings.

Setting	Display
Off	
Low	
Middle	<u> </u>
High	- <del>&gt;&gt;&gt;</del> -

To increase the grip warmer temperature, push the "\[ \times " \] side of the select switch. To decrease the grip warmer temperature, push the "\( \sigms " \) side of the select switch.

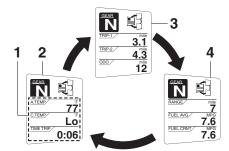
ECA17930

### NOTICE

- Be sure to wear gloves when using the grip warmers.
- If the ambient temperature is 20
   °C (68 °F) or higher, do not set
   the grip warmer to the high setting.

 If the handlebar grip or throttle grip becomes worn or damaged, stop using the grip warmers and replace the grips.

## Selecting the information display



- 1. Information display
- 2. Display-1
- 3. Display-2
- 4. Display-3

There are 3 information displays. The selected information display can be switched by pushing the select switch. The following items are shown in the information displays:

- an odometer display
- tripmeter displays
- a fuel reserve tripmeter display

- an estimated traveling range display
- an elapsed time display
- an ambient temperature display
- a coolant temperature display
- an average fuel consumption display
- an instantaneous fuel consumption display

The items shown in each information display can be selected.

To set or select the items shown, see page 4-14.

## Odometer display:

ODO mile 12

## Tripmeter displays:



"TRIP-1" and "TRIP-2" show the distance traveled since they were last set to zero.

When approximately 5.5 L (1.45 US gal, 1.21 Imp.gal) of fuel remains in the fuel tank, the last segment of the fuel meter starts flashing. In addition, the information 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 switch switches the display between the various information displays in the following order; TRIP-F  $\rightarrow$  Display-1  $\rightarrow$  Display-2  $\rightarrow$  Display-3  $\rightarrow$  TRIP-F

To reset a tripmeter, use the select switch to select the information display that contains the tripmeter. Push the "RESET" button briefly so that the tripmeter flashes, and then push the "RESET" button again for at least 2 seconds while the tripmeter is flashing. 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 (3 mi).

Estimated traveling range display:

RANGE mile

The distance that can be traveled with the remaining fuel in the fuel tank under the current riding conditions is shown. Elapsed time display:

0:06

The time that has elapsed since the key was turned to "ON" is shown. The maximum time that can be shown is 99:59. This display is automatically reset when the key is turned to "OFF".

TIP

There are also "TIME-2" and "TIME-3" elapsed time displays, but they cannot be set to the information display. See "Setting mode" on page 4-14 for detailed information.

Ambient temperature display:

A.TEMP \*F

This display shows the ambient temperature from 16 °F to 122 °F in 1 °F increments. The temperature displayed may vary from the ambient temperature.

#### TIP

- 16 °F will be displayed even if the ambient temperature falls below 16 °F.
- 122 °F will be displayed even if the ambient temperature climbs above 122 °F.
- The accuracy of the temperature reading may be affected when riding slowly [approximately under 20 km/h (12.5 mi/h)] or when stopped at traffic signals, railroad crossings, etc.

### Coolant temperature display:



The coolant temperature display indicates the temperature of the coolant. The coolant temperature varies with changes in the weather and engine load.

If the message "Hi" flashes, stop the vehicle, then stop the engine, and let the engine cool. (See page 7-40.)



TIP

The selected information display cannot be switched while the message "Hi" is flashing.

## NOTICE

Do not continue to operate the engine if it is overheating.

Average fuel consumption display:

FUEL AVG MPG 7.6

The average fuel consumption display modes "km/L", "L/100km" or "MPG" show the average fuel consumption since the display was last reset.

- The "km/L" display shows the average distance that can be traveled on 1.0 L of fuel.
- The "L/100km" display shows the average amount of fuel necessary to travel 100 km.
- The "MPG" display shows the average distance that can be traveled on 1.0 US gal of fuel.

To reset the average fuel consumption display, use the select switch to select the information display that contains the average fuel consumption display. Push the "RESET" button briefly so that the average fuel consumption display flashes, and then push the "RESET" button again for at least 2 seconds while the display is flashing.

### TIP \_\_\_\_

ECA10021

After resetting the average fuel consumption display, "\_\_.\_" will be shown for that display until the vehicle has traveled 1 km (0.6 mi).

ECA15473

**NOTICE** 

If there is a malfunction, "--.-" will be continuously displayed. Have a Yamaha dealer check the vehicle.

<u>Instantaneous fuel consumption display:</u>

FUEL CRNT MPG 7.6

The instantaneous fuel consumption display modes "km/L", "L/100km" or "MPG" show the fuel consumption under the current riding conditions.

- The "km/L" display shows the distance that can be traveled on 1.0 L of fuel.
- The "L/100km" display shows the amount of fuel necessary to travel 100 km.
- The "MPG" display shows the distance that can be traveled on 1.0 US gal of fuel.

TIP

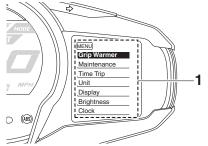
If traveling at speeds under 10 km/h (6.2 mi/h), "\_\_.\_" will be displayed.

ECA15473

**NOTICE** 

If there is a malfunction, "---" will be continuously displayed. Have a Yamaha dealer check the vehicle.

## **Setting mode**



1. Setting mode display

TIP.

 The transmission must be in neutral and the vehicle must be stopped to change settings in this mode.  Shifting the transmission into gear and starting off, or turning the key to "OFF", saves all settings made, then exits the setting mode.

Push and hold the menu switch "MENU" for at least 2 seconds to enter the setting mode. To exit the setting mode and return to the normal display, push and hold the menu switch "MENU" again for at least 2 seconds.

<u> </u>		
Display	Description	
"Grip Warmer"	This function allows you to set the low, middle, and high settings to 10 temperature levels.	
"Maintenance"	This function allows you to set the oil change interval (distance traveled) and 2 other maintenance intervals. This function can also be reset.	
"Time Trip"	This function allows you to check and reset the "TIME-2" and "TIME-3" functions. These time trips show the total elapsed time that the key has been in the "ON" position. When the key is turned to "OFF", the trip times stop counting but are not reset. The maximum time that can be shown is 99:59.	

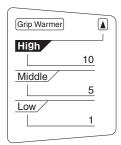
"Unit"	This function allows you to switch the display units between kilometers and miles. When kilometers are selected, the fuel consumption units can be switched between "L/100km" and "km/L".
"Display"	This function allows you to change the items shown in 3 information displays.
"Brightness"	This function allows you to adjust the brightness of the multi-function meter unit panel to suit the outside lighting conditions.
"Clock"	This function allows you to set the clock.
"All Reset"	This function allows you to reset all items, except the odometer and the clock.

# Adjusting the temperature levels of the grip warmer settings

1. Use the select switch to highlight "Grip Warmer".

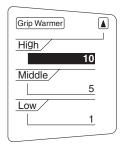


Push the menu switch "MENU". The grip warmer setting display will be shown and "High" will flash in the display.

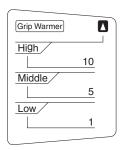


3. Push the menu switch "MENU". The temperature level for the high setting will start flashing.

Use the select switch to set the temperature level, and then push the menu switch "MENU". "High" will start flashing.



- Use the select switch to highlight "Middle" or "Low", and then change the setting using the same procedure that was used for the high setting.
- 5. When you are finished changing the settings, use the select switch to highlight "A", and then push the menu switch "MENU" to return to the setting mode menu.



TIP

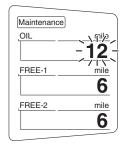
The setting can be set to 10 temperature levels.

## Resetting the maintenance counters

1. Use the select switch to highlight "Maintenance".



2. Push the menu switch "MENU", and then push the "RESET" button to select the item to reset.



- While the selected item is flashing, push the "RESET" button for at least 2 seconds.
- 4. Push the menu switch "MENU" to return to the setting mode menu.

# Checking and resetting "TIME-2" and "TIME-3"

1. Use the select switch to highlight "Time Trip".



 Push the menu switch "MENU" to display "TIME-2" and "TIME-3".
 To reset a time trip, push the "RE-SET" button to select the item to reset.



While the selected item is flashing, push the "RESET" button for at least 2 seconds.

4. Push the menu switch "MENU" to return to the setting mode menu.

### Selecting the units

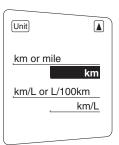
 Use the select switch to highlight "Unit".



Push the menu switch "MENU". The unit setting display will be shown and "km or mile" will flash in the display.



- 3. Push the menu switch "MENU". "km" or "mile" will flash in the display.
- 4. Use the select switch to select "km" or "mile", and then push the menu switch "MENU".

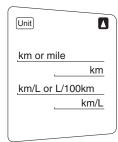


### TIP

When "km" is selected, "L/100km" or "km/L" can be set as the fuel consumption units. To set the fuel consumption units, proceed as follows. If "mile" was selected, skip steps 5 and 6.

5. Use the select switch to select "km/L or L/100km".

- Push the menu switch "MENU", use the select switch to select "L/100km" or "km/L", and then push the menu switch "MENU" again.
- Use the select switch to highlight "\(\hat{\mathbb{n}}\)", and then push the menu switch "MENU" to return to the setting mode menu.



### Selecting the display items

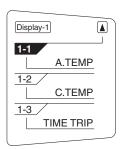
1. Use the select switch to highlight "Display".



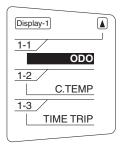
Push the menu switch "MENU", use the select switch to highlight the display to change, and then push the menu switch "MENU" again.



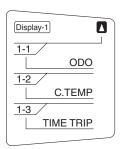
3. Use the select switch to highlight the item to change, and then push the menu switch "MENU".



Use the select switch to select the item to show, and then push the menu switch "MENU".



5. When you are finished changing the settings, use the select switch to highlight "a", and then push the menu switch "MENU" to return to the previous display.



 Use the select switch to highlight "a", and then push the menu switch "MENU" to return to the setting mode menu.

### Adjusting the meter panel brightness

1. Use the select switch to highlight "Brightness".



2. Push the menu switch "MENU".

Use the select switch to select the desired brightness level, and then push the menu switch "MENU" to return to the setting mode menu.



### Setting the clock

1. Use the select switch to highlight "Clock".

MENU	
Grip Warmer	
Maintenance	
Time Trip	
Unit	
Display	
Brightness	
Clock	

2. Push the menu switch "MENU".

When the hour digits start flashing, use the select switch to set the hours.



- 4. Push the menu switch "MENU", and the minute digits start flashing.
- Use the select switch to set the minutes.
- Push the menu switch "MENU" to return to the setting mode menu.

### Resetting all of the display items

1. Use the select switch to highlight "All Reset".



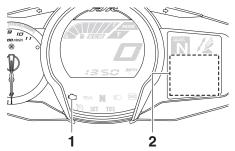
- 2. Push the menu switch "MENU".
- 3. Use the select switch to highlight "YES", and then push the menu switch "MENU".



TIP

The odometer and the clock cannot be reset.

### Self-diagnosis device



- 1. Engine trouble warning light " 📇 "
- 2. Error code display

This model is equipped with a self-diagnosis device for various electrical circuits. If a problem is detected in any of those circuits, the engine trouble warning light will come on and the information display will indicate an error code. If the information display indicates any error codes, note the code number, and then have a Yamaha dealer check the vehicle.

NOTICE

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

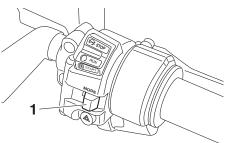
ECA11590

# D-mode (drive mode)

D-mode is an electronically controlled engine performance system with two mode selections (touring mode "T" and sports mode "S").

EAU49431

Push the drive mode switch "MODE" to switch between modes. (See page 4-22 for an explanation of the drive mode switch.)



1. Drive mode switch "MODE"

TIP \_\_\_\_\_

Before using D-mode, make sure you understand its operation along with the operation of the drive mode switch.

### Touring mode "T"

The touring mode "T" is suitable for various riding conditions.

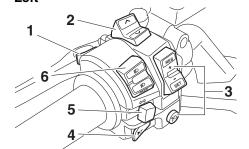
This mode allows the rider to enjoy smooth drivability from the low-speed range to the high-speed range.

### Sports mode "S"

This mode offers a sportier engine response in the low- to mid-speed range compared to the touring mode.

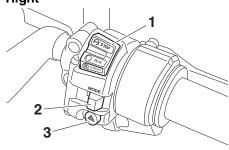
### Handlebar switches

### Left



- 1. Menu switch "MENU"
- 2. Select switch " / / "
- 3. Cruise control switches
- 4. Horn switch " "
- 5. Turn signal switch "⟨¬/¬⟩"
- 6. Dimmer/Pass switch "≣⊜/ / PASS"

### EAU1234B Right



- 1. Start/Engine stop switch "(♠)/ ()/ (X)"
- 2. Drive mode switch "MODE"
- 3. Hazard switch " A "

EAU54200

Dimmer/Pass switch "<sub>≣○</sub>/<sub>ਭ○</sub>/PASS" Set this switch to "<sub>≣○</sub>" for the high beam and to "<sub>ছ○</sub>" for the low beam.

To flash the high beam, push the pass side "PASS" of the switch while the headlights are on low beam.

EAU12460

# 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.

FAU12500

### Horn switch " ▶ "

starting the engine.

Press this switch to sound the horn.

EAU54210

# Start/Engine stop switch " $\gg$ / $\sim$ / $\approx$ " To crank the engine with the starter, set this switch to " $\sim$ ", and then push the " $\approx$ " side of the switch. See page 6-1 for starting instructions prior to

Set this switch to "\overline{\times}" to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck.

EAU42341

The engine trouble warning light and ABS warning light may come on when the key is turned to "ON" and the start switch is pushed, but this does not indicate a malfunction.

### Hazard switch "▲"

With the key in the "ON" or "p\in " position, use this switch to turn on the hazard lights (simultaneous flashing of all turn signal lights).

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

ECA10061

### **NOTICE**

Do not use the hazard lights for an extended length of time with the engine not running, otherwise the battery may discharge.

### **Cruise control switches**

See page 4-4 for an explanation of the cruise control system.

EAU54230

EAU12780

### Menu switch "MENU"

This switch is used to perform selections in the function display and setting mode display of the multi-function meter unit.

See "Multi-function meter unit" on page 4-8 for detailed information.

EAU12733

### Select switch "∧/∨"

This switch is used to perform selections in the function display and setting mode display of the multi-function meter unit.

See "Multi-function meter unit" on page 4-8 for detailed information.

EAU54690

EAU54220

### Drive mode switch "MODE"

EWA15340

### **⚠** WARNING

# Do not change the D-mode while the vehicle is moving.

Using this switch changes the drive mode to touring mode "T" or sports mode "S".

The throttle grip must be completely closed in order to change the drive mode.

The selected mode is shown on the drive mode display. (See page 4-10.)

The drive mode cannot be changed while the cruise control system is operating.

EAU12871

# INSTRUMENT AND CONTROL FUNCTIONS

### Clutch lever

EAU12830

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

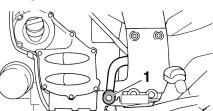
The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.

The clutch lever is equipped with a clutch 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 4-42.)

# Shift pedal



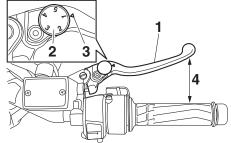
### 1. Shift pedal

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

EAU26824

### **Brake lever**

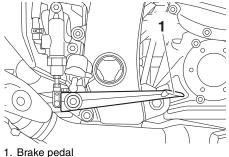
The brake lever is located on the right side of the handlebar. To apply the front brake, pull the lever toward the throttle grip.



- 1. Brake lever
- 2. Brake lever position adjusting dial
- 3. " \( \) " mark
- 4. Distance between brake lever and throttle grip

The brake lever is equipped with a brake lever position adjusting dial. To adjust the distance between the brake lever and the throttle grip, turn the adjusting dial while holding the lever pushed away from the throttle grip. Make sure that the appropriate setting on the adjusting dial is aligned with the " $\wedge$ " mark on the brake lever.

# **Brake pedal**



The brake pedal is on the right side of the vehicle.

This model is equipped with a unified brake system.

When pressing down on the brake pedal, the rear brake and a portion of the front brake are applied. For full braking performance, apply both the brake lever and the brake pedal simultaneously.

### **ABS**

EAU39540

The Yamaha ABS (Anti-lock Brake System) features a dual electronic con-

trol system, which acts on the front and

rear brakes independently.

Operate the brakes with ABS as you would conventional brakes. If the ABS is activated, a pulsating sensation may be felt at the brake lever or brake pedal. In this situation, continue to apply the brakes and let the ABS work: do not "pump" the brakes as this will reduce braking effectiveness.

EWA16050

EAU54530

# **WARNING**

Always keep a sufficient distance from the vehicle ahead to match the riding speed even with ABS.

- The ABS performs best with long braking distances.
- On certain surfaces, such as rough or gravel roads, the braking distance may be longer with the ABS than without.

The ABS is monitored by an ECU, which will revert the system to conventional braking if a malfunction occurs.

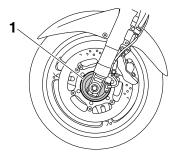
#### TIP

- The ABS performs a self-diagnosis test each time the vehicle first starts off after the key is turned to "ON" and the vehicle has traveled at a speed of 10 km/h (6 mi/h) or higher. During this test, a "clicking" noise can be heard from under the seat, and if the brake lever or brake pedal is even slightly applied, a vibration can be felt at the lever and pedal, but these do not indicate a malfunction.
- This ABS has a test mode which allows the owner to experience the pulsation 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.

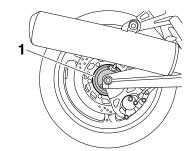
ECA16830

### **NOTICE**

Keep any type of magnets (including magnetic pick-up tools, magnetic screwdrivers, etc.) away from the front and rear wheel hubs; otherwise, the magnetic rotors equipped in the wheel hubs may be damaged, resulting in improper performance of the ABS and the unified brake system.



1. Front wheel hub



1. Rear wheel hub

### Traction control system

EAU54270

The traction control system helps maintain traction when accelerating on slippery surfaces, such as unpaved or wet roads. If sensors detect that the rear wheel is starting to slip (uncontrolled spinning), the traction control system assists by regulating engine power as needed until traction is restored. The "TCS" indicator/warning light flashes to let the rider know that traction control has engaged.

#### ГΙР

The rider may also notice slight changes in engine and exhaust sounds when the traction control system is engaged.

EWA15431

# **WARNING**

The traction control system is not a substitute for riding appropriately for the conditions. Traction control cannot prevent loss of traction due to excessive speed when entering turns, when accelerating hard at a sharp lean angle, or while braking, and cannot prevent front wheel slipping. As with any motorcycle, ap-

proach surfaces that may be slippery with caution and avoid especially slippery surfaces.

When the key is turned to "ON", the traction control system automatically turns on.

The traction control system can be turned on or off manually only when the key is in the "ON" position and the motorcycle is stopped.

### TIP\_

Turn the traction control system off to help free the rear wheel if the motorcycle gets stuck in mud, sand, or other soft surfaces.

ECA16800

### **NOTICE**

Use only the specified tires. (See page 7-21.) Using different sized tires will prevent the traction control system from controlling tire rotation accurately.

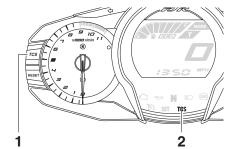
Turning on/off the traction control system

### **WARNING**

Be sure to stop the vehicle before making any setting changes to the traction control system. Changing settings while riding can distract the operator and increase the risk of an accident.

To turn off the traction control system, push the "TCS" button on the multifunction meter unit for at least 2 seconds. The "TCS" indicator/warning light will come on.

To turn on the traction control system, push the "TCS" button again. The "TCS" indicator/warning light will go off.



1. "TCS" button

EWA15440

2. Traction control system indicator/warning light "TCS"

### Resetting

The traction control system will be disabled in the following conditions:

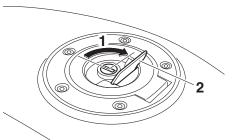
- The rear wheel is rotated with the centerstand down and the key in the "ON" position.
- Either the front wheel or rear wheel comes off the ground while riding.
- Excessive rear wheel spinning.

If the traction control system has been disabled, both the "TCS" indicator/warning light and the engine trouble warning light come on.

### To reset the traction control system

Turn the key to "OFF". Wait at least 1 second, then turn the key back to "ON". The "TCS" indicator/warning light should go off and the system will be enabled. The engine trouble warning light should go off after the motorcycle reaches at least 20 km/h (12 mi/h). If the "TCS" indicator/warning light and/or engine trouble warning light still remain on after resetting, the motorcycle may still be ridden; however, have a Yamaha dealer check the motorcycle as soon as possible.

# Fuel tank cap



- 1. Unlock
- 2. Fuel tank cap lock cover

### 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.

### TIP

EAU13074

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.

EWA11091

# **WARNING**

Make sure that the fuel tank cap is properly closed after filling fuel. Leaking fuel is a fire hazard.

### **Fuel**

EAU13221

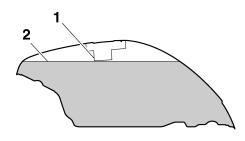
Make sure there is sufficient gasoline in the tank.

EWA10881

# **WARNING**

Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.

- Before refueling, turn off the engine and be sure that no one is sitting on the vehicle. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.
- Do not overfill the fuel tank. When refueling, be sure to insert the pump nozzle into the fuel tank filler hole. Stop filling when the fuel reaches the bottom of the filler tube. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank.



- 1. Fuel tank filler tube
- 2. Maximum fuel level
  - 3. Wipe up any spilled fuel immediately. NOTICE: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts. [ECA10071]
  - 4. Be sure to securely close the fuel tank cap.

EWA15151

# **WARNING**

Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immedi-

ately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.

EAU53060

### Recommended fuel:

Unleaded gasoline only

Fuel tank capacity:

25.0 L (6.61 US gal, 5.50 Imp.gal) Fuel reserve amount:

5.5 L (1.45 US gal, 1.21 Imp.gal)

FCA11400

# **NOTICE**

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.

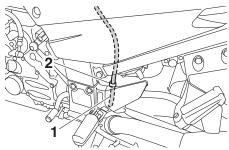
Your Yamaha engine has been designed to use unleaded gasoline with a pump octane number [(R+M)/2] of 86 or higher, or a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand

or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

#### Gasohol

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if the ethanol content does not exceed 10% (E10). Gasohol containing methanol is not recommended by Yamaha because it can cause damage to the fuel system or vehicle performance problems.

# Fuel tank breather/overflow hose



- 1. Fuel tank breather/overflow hose
  - 2. Clamp

#### TIP

For California: See page 7-13 for breather hose information.

Before operating the motorcycle:

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

 Make sure that the end of the fuel tank breather/overflow hose is positioned inside of the clamp.

### **Catalytic converters**

EAU13445

This vehicle is equipped with catalytic converters in the exhaust system.

EWA108

**WARNING** 

The exhaust system is hot after operation. To prevent a fire hazard or burns:

- Do not park the vehicle near possible fire hazards such as grass or other materials that easily burn.
- Park the vehicle in a place where pedestrians or children are not likely to touch the hot exhaust system.
- Make sure that the exhaust system has cooled down before doing any maintenance work.
- Do not allow the engine to idle more than a few minutes. Long idling can cause a build-up of heat.

ECA10701

### NOTICE

Use only unleaded gasoline. The use of leaded gasoline will cause unrepairable damage to the catalytic converter.

Spa

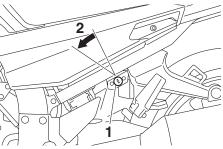
### **Seats**

### Passenger seat

### To remove the passenger seat

1. Insert the key into the seat lock, and then turn it counterclockwise.

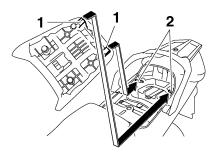
EAU39495



- 1. Seat lock
- 2. Unlock.
- 2. Lift the front of the passenger seat and pull it forward.

### To install the passenger seat

1. Insert the projections on the rear of the passenger seat into the seat holders as shown, and then push the front of the seat down to lock it in place.

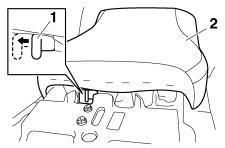


- 1. Projection
- 2. Seat holder
- 2. Remove the key.

### Rider seat

### To remove the rider seat

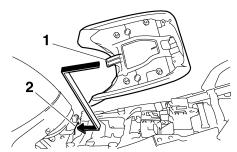
- 1. Remove the passenger seat.
- 2. Push the rider seat lock lever, located under the back of the rider seat, to the left as shown, and then pull the seat off.



- Rider seat lock lever
- 2. Rider seat

### 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.



- 1. Projection
- 2. Seat holder

2. Install the passenger seat.

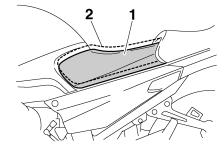
### TIP

- Make sure that the seats are properly secured before riding.
- The rider seat height can be adjusted to change the riding position. (See the following section.)

# Adjusting the rider seat height

The rider seat height can be adjusted to one of two positions to suit the rider's preference.

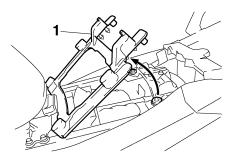
The rider seat height was adjusted to the lower position at delivery.



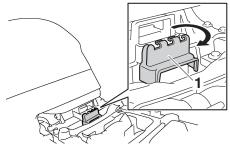
- 1. Low position
- 2. High position

# To change the rider seat height to the high position

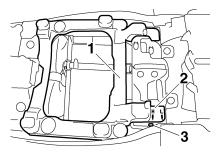
- 1. Remove the rider seat. (See page 4-30.)
- 2. Remove the rider seat height position adjuster by pulling it upward.



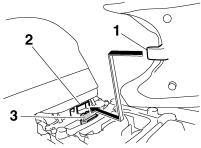
- 1. Rider seat height position adjuster
- 3. Move the rider seat holder cover to the lower position as shown.



- 1. Rider seat holder cover
  - 4. Install the rider seat height position adjuster so that the "H" mark is aligned with the match mark.

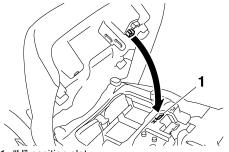


- 1. Rider seat height position adjuster
- 2. "H" mark
- 3. Match mark
- Insert the projection on the front of the rider seat into seat holder B as shown.



- 1. Projection
- 2. Seat holder B (for high position)
- 3. Rider seat holder cover

 Align the projection on the bottom of the rider seat with the "H" position slot, and then push the rear of the seat down to lock it in place as shown.

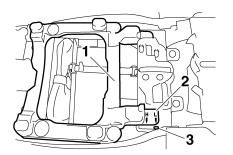


1. "H" position slot

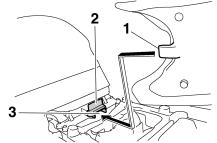
7. Install the passenger seat.

# To change the rider seat height to the low position

- 1. Remove the rider seat. (See page 4-30.)
- 2. Remove the rider seat height position adjuster by pulling it upward.
- 3. Move the rider seat holder cover to the upper position.
- 4. Install the rider seat height position adjuster so that the "L" mark is aligned with the match mark.



- 1. Rider seat height position adjuster
- 2. "L" mark
- 3. Match mark
  - 5. Insert the projection on the front of the rider seat into seat holder A as shown.



- 1. Projection
- 2. Rider seat holder cover
- 3. Seat holder A (for low position)

 Align the projection on the bottom of the rider seat with the "L" position slot, and then push the rear of the seat down to lock it in place as shown.



1. "L" position slot

Install the passenger seat.

### TIP \_\_\_\_\_

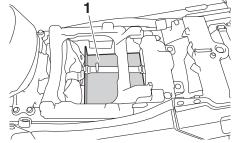
Make sure that the seats are properly secured before riding.

EAU40252

# Storage compartments

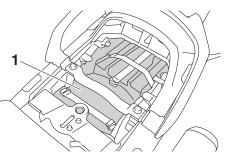
This vehicle is equipped with two storage compartments.

Storage compartment A is located under the rider seat. (See page 4-30.)



1. Storage compartment A

Storage compartment B is located under the passenger seat. (See page 4-30.)



1. Storage compartment B

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

# **WARNING**

EWA14420

- Do not exceed the load limit of 1 kg (2 lb) for storage compartment A.
- Do not exceed the load limit of 3 kg (7 lb) for storage compartment B.

 Do not exceed the maximum load of FJR13AD 215 kg (474 lb) FJR13ADC 214 kg (472 lb) for the vehicle.

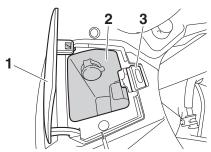
EAU39480

### **Accessory box**

The accessory box is located beside the meter panel.

### To open the accessory box

- 1. Insert the key into the main switch, and then turn it to "ON".
- 2. Push the accessory box button, and then open the accessory box lid.



- 1. Accessory box lid
- 2. Accessory box
- 3. Accessory box button
  - 3. Turn the key to "OFF" to preserve the battery.

### To close the accessory box

1. Fold the accessory box lid down.

2. Remove the key.

ECA11800

### NOTICE

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.

EWA11421

## **M** WARNING

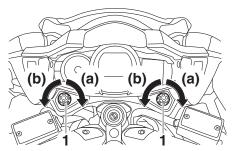
- Do not exceed the load limit of 0.3 kg (0.66 lb) for the accessory box.
- Do not exceed the maximum load of FJR13AD 215 kg (474 lb) FJR13ADC 214 kg (472 lb) for the vehicle.

Adjusting the headlight

# beams

The headlight beam adjusting knobs are used to raise or lower the height of the headlight beams. It may be necessary to adjust the headlight beams to increase visibility and help prevent blinding oncoming drivers when carrying more or less load than usual. Obey local laws and regulations when adjusting the headlights.

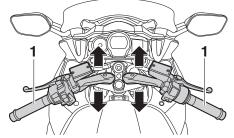
To raise the headlight beams, turn the knobs in direction (a). To lower the headlight beams, turn the knobs in direction (b).



1. Headlight beam adjusting knob

# Handlebar position

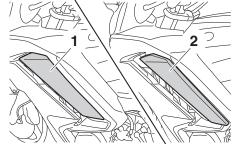
The handlebars can be adjusted to one of three positions to suit the rider's preference. Have a Yamaha dealer adjust the position of the handlebars.



1. Handlebar

# Opening and closing the cowlo one ing vents

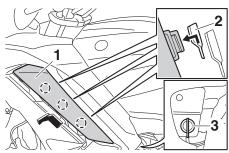
The cowling vents can be opened 20 mm (0.79 in) for added ventilation to suit the riding conditions.



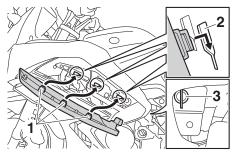
- 1. Closed position
- 2. Open position

### To open a cowling vent

- 1. Remove the quick fastener.
- 2. Slide the cowling vent panel forward to unhook its projections from the lower slots, and then pull the panel off.



- 1. Cowling vent panel
- 2. Lower slot
- 3. Quick fastener
- Insert the projections into the upper slots, and then slide the panel backward.

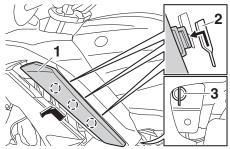


- 1. Projection
- 2. Upper slot
- 3. Quick fastener

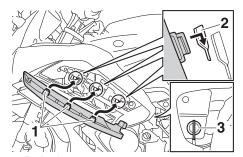
4. Install the quick fastener.

### To close a cowling vent

- 1. Remove the quick fastener.
- Slide the cowling vent panel forward to unhook its projections from the upper slots, and then pull the panel off.



- 1. Cowling vent panel
- 2. Upper slot
- 3. Quick fastener
- Insert the projections into the lower slots, and then slide the panel backward.



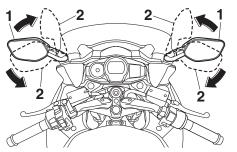
- Projection
   Lower slot
- 3. Quick fastener
  - 4. Install the quick fastener.

#### TIP

Make sure that the cowling vent panels are properly installed before riding.

### **Rear view mirrors**

The rear view mirrors of this vehicle can be folded forward or backward for parking in narrow spaces. Fold the mirrors back to their original position before riding.



- 1. Riding position
- 2. Parking position

EWA14371

EAU39671

# **WARNING**

Be sure to fold the rear view mirrors back to their original position before riding.

# Adjusting the front fork

EAU54140

EWA14670

# **WARNING**

Always adjust the spring preload on both fork legs equally, otherwise poor handling and loss of stability may result.

Each front fork leg is equipped with a spring preload adjusting bolt. The right front fork leg is equipped with a rebound damping force adjusting knob and compression damping force adjusting screw.

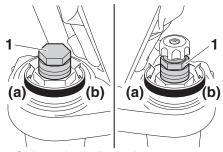
ECA10101

### NOTICE

To avoid damaging the mechanism, do not attempt to turn beyond the maximum or minimum settings.

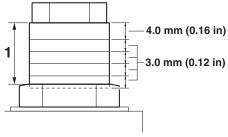
### Spring preload

To increase the spring preload and thereby harden the suspension, turn the adjusting bolt on each fork leg in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting bolt on each fork leg in direction (b).



1. Spring preload adjusting bolt

The spring preload setting is determined by measuring distance A, shown in the illustration. The shorter distance A is, the higher the spring preload; the longer distance A is, the lower the spring preload.



1. Distance A

### Spring preload setting:

Minimum (soft):

Distance A = 15.0 mm (0.59 in) Standard:

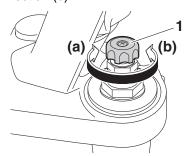
Distance A = 10.0 mm (0.39 in) Maximum (hard):

Distance A = 0.0 mm (0.00 in)

### **Rebound damping force**

The rebound damping force is adjusted on the right front fork leg only.

To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting knob in direction (a). To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting knob in direction (b).



1. Rebound damping force adjusting knob

### Rebound damping setting:

Minimum (soft):

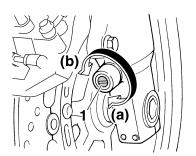
16 click(s) in direction (b)\* Standard:

12 click(s) in direction (b)\* Maximum (hard):

- 1 click(s) in direction (b)\*
- \* With the adjusting knob fully turned in direction (a)

### Compression damping force

The compression damping force is adjusted on the right front fork leg only. To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw in direction (b).



1. Compression damping force adjusting screw

### Compression damping setting:

Minimum (soft):

21 click(s) in direction (b)\* Standard:

11 click(s) in direction (b)\* Maximum (hard):

1 click(s) in direction (b)\*

\* With the adjusting screw fully turned in direction (a)

### TIP\_

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 num-

ber of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.

# Adjusting the shock absorber assembly

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

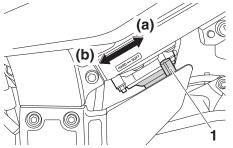
ECA16570

### **NOTICE**

To avoid damaging the mechanism, do not attempt to move beyond the maximum or minimum settings.

### Spring preload

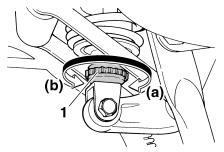
For riding solo, move the spring preload adjusting lever in direction (a). For riding with a passenger, move the spring preload adjusting lever in direction (b).



1. Spring preload adjusting lever

### **Rebound damping force**

To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting knob in direction (a). To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting knob in direction (b).



1. Rebound damping force adjusting knob

### Rebound damping setting:

Minimum (soft):

20 click(s) in direction (b)\* Standard:

12 click(s) in direction (b)\* Maximum (hard):

3 click(s) in direction (b)\*

\* With the adjusting knob fully turned in direction (a)

### TIP

To obtain a precise adjustment, it is advisable to check the actual total number of clicks or turns of the damping force adjusting mechanism. This adjustment range may not exactly match the specifications listed due to small differences in production.

EWA10221

### **WARNING**

This shock absorber assembly contains highly pressurized nitrogen gas. Read and understand the following information before handling the shock absorber assembly.

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

E

**Sidestand**The sidestand is located on the left side

of the frame. Raise the sidestand or lower it with your foot while holding the vehicle upright.

### TIP\_

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

FWA10241

# **WARNING**

The vehicle 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 and have a Yamaha dealer repair it if it does not function properly.

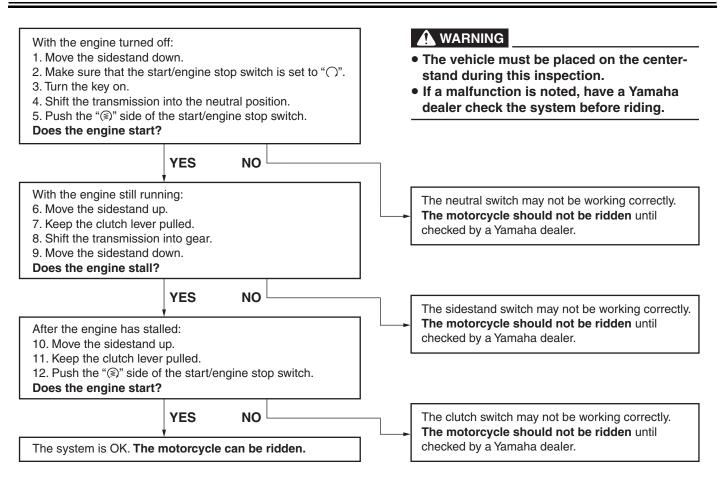
FAU5449

# 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.



## **Auxiliary DC jack**

EAU39655

EWA14360

# **M** WARNING

To prevent electrical shock or shortcircuiting, make sure that the cap is installed when the auxiliary DC jack is not being used.

ECA15431

# NOTICE

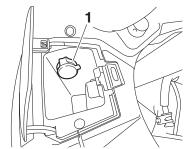
The accessory connected to the auxiliary DC jack should not be used with the engine turned off, and the load must never exceed 30 W (2.5 A), otherwise the fuse may blow or the battery may discharge.

This vehicle is equipped with an auxiliary DC jack in the accessory box.

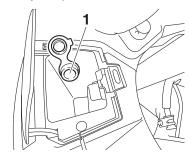
A 12-V accessory connected to the auxiliary jack can be used when the key is in the "ON" position and should only be used when the engine is running.

### To use the auxiliary DC jack

- 1. Open the accessory box lid. (See page 4-35.)
- 2. Turn the key to "OFF".
- 3. Remove the auxiliary DC jack cap.



- 1. Auxiliary DC jack cap
- 4. Turn the accessory off.
- Insert the accessory plug into the auxiliary DC jack.



- 1. Auxiliary DC jack
  - 6. Turn the key to "ON", and then start the engine. (See page 6-1.)
  - 7. Turn the accessory on.

# FOR YOUR SAFETY - PRE-OPERATION CHECKS

EAU15596

Inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual.

EWA11151

# **WARNING**

Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem. If a problem cannot be corrected by the procedures provided in this manual, have the vehicle inspected by a Yamaha dealer.

Before using this vehicle, check the following points:

ITEM	ITEM CHECKS	
Fuel	Check fuel level in fuel tank. Refuel if necessary. Check fuel line for leakage. Check fuel tank breather/overflow hose for obstructions, cracks or damage, and check hose connection.	
Engine oil	Check oil level in engine. If necessary, add recommended oil to specified level. Check vehicle for oil leakage.	
Final gear oil	Check vehicle for oil leakage.	7-16
Coolant	Check coolant level in reservoir.     If necessary, add recommended coolant to specified level.     Check cooling system for leakage.	
Front brake	Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system. Check brake pads for wear. Replace if necessary. Check fluid level in reservoir. If necessary, add specified brake fluid to specified level. Check hydraulic system for leakage.	7-25, 7-26

# **FOR YOUR SAFETY – PRE-OPERATION CHECKS**

ITEM	Check operation.  If soft or spongy, have Yamaha dealer bleed hydraulic system.  Check brake pads for wear.  Replace if necessary.  Check fluid level in reservoir.  If necessary, add specified brake fluid to specified level.  Check hydraulic system for leakage.  Check operation.  If soft or spongy, have Yamaha dealer bleed hydraulic system.  Check fluid level in reservoir.  If necessary, add specified brake fluid to specified level.  Check hydraulic system for leakage.  Make sure that operation is smooth.  Check throttle grip free play.  If necessary, have Yamaha dealer adjust throttle grip free play and lubricate cable and grip housing.	
Rear brake		
Clutch		
Throttle grip		
Control cables		
Wheels and tires	Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary.	7-21, 7-23
Brake and shift pedals	• Lubricate pedal pivoting points if necessary.      • Make sure that operation is smooth.     • Lubricate lever pivoting points if necessary.      • Make sure that operation is smooth.	
Brake and clutch levers		
Centerstand, sidestand		
• Make sure that all nuts, bolts and screws are properly tightened. • Tighten if necessary.		_

# **FOR YOUR SAFETY – PRE-OPERATION CHECKS**

ITEM	CHECKS	PAGE
Instruments, lights, signals and switches		
Sidestand switch	Check operation of ignition circuit cut-off system.     If system is not working correctly, have Yamaha dealer check vehicle.	4-41

# **OPERATION AND IMPORTANT RIDING POINTS**

TIP

EAU15951

EAU47150

Read the Owner's Manual carefully to become familiar with all controls. If there is a control or function you do not understand, ask your Yamaha dealer.

EWA10271



Failure to familiarize yourself with the controls can lead to loss of control, which could cause an accident or injury. This model is equipped with:

- a lean angle sensor to stop the engine in case of a turnover. In this case, the multi-function meter unit indicates error code 30, but this is not a malfunction. Turn the key to "OFF" and then to "ON" to clear the error code. Failing to do so will prevent the engine from starting even though the engine will crank when pushing the start switch.
- an engine auto-stop system. The engine stops automatically if left idling for 20 minutes. In this case, the multi-function meter unit indicates error code 70, but this is not a malfunction. Push the start switch to clear the error code and to restart the engine.

EAU54750

# 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.
  - See page 4-42 for more information.
- 1. Turn the key to "ON" and make sure that the start/engine stop switch is set to "O".

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

- Oil level warning light
- Engine trouble warning light
- Traction control system indicator/warning light
- Cruise control indicator lights

ECA11833

### **NOTICE**

If a warning or indicator light does not come on initially when the key is turned to "ON", or if a warning or in-

EAU16671

# **OPERATION AND IMPORTANT RIDING POINTS**

ECA11042

dicator light remains on, see page 4-2 for the corresponding warning and indicator light circuit check.

The ABS warning light should come on when the key is turned to "ON", and then go off after traveling at a speed of 10 km/h (6 mi/h) or higher.

ECA17681

### **NOTICE**

If the ABS warning light does not come on and then go off as explained above, see page 4-2 for the warning light circuit check.

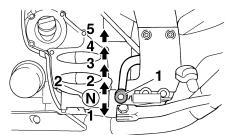
- Shift the transmission into the neutral position. The neutral indicator light should come on. If not, ask a Yamaha dealer to check the electrical circuit.
- 3. Start the engine by pushing the "(\*\*)" side of the start/engine stop switch. If the engine fails to start, release the start/engine stop 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.

### **NOTICE**

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

# **Shifting**



- 1. Shift pedal
- 2. Neutral position

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.

### TIP\_

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.

# OPERATION AND IMPORTANT RIDING POINTS

ECA10260

### **NOTICE**

- 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.

EAU16681

### To start out and accelerate

- Pull the clutch lever to disengage the clutch.
- 2. Shift the transmission into first gear. The neutral indicator light should go out.
- 3. Open the throttle gradually, and at the same time, release the clutch lever slowly.

- 4. At the recommended shift points shown in the following table, close the throttle, and at the same time, quickly pull the clutch lever in.
- Shift the transmission into second gear. (Make sure not to shift the transmission into the neutral position.)
- Open the throttle part way and gradually release the clutch lever.
- 7. Follow the same procedure when shifting to the next higher gear.

#### TIF

When shifting gears in normal operating conditions, use the recommended shift points.

EAU16700

### To decelerate

- 1. Apply both the front and the rear brakes to slow the motorcycle.
- 2. Shift the transmission into first gear when the motorcycle reaches 25 km/h (16 mi/h). If the engine is about to stall or runs very roughly, pull the clutch lever in and use the brakes to stop the motorcycle.

 Shift the transmission into the neutral position when the motorcycle is almost completely stopped. The neutral indicator light should come on.

FAU16720

## Recommended shift points

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

### Shift up points:

1st  $\rightarrow$  2nd: 20 km/h (12 mi/h) 2nd  $\rightarrow$  3rd: 30 km/h (19 mi/h) 3rd  $\rightarrow$  4th: 40 km/h (25 mi/h) 4th  $\rightarrow$  5th: 50 km/h (31 mi/h)

### Shift down points:

5th  $\rightarrow$  4th: 25 km/h (16 mi/h) 4th  $\rightarrow$  3rd: 25 km/h (16 mi/h) 3rd  $\rightarrow$  2nd: 25 km/h (16 mi/h) 2nd  $\rightarrow$  1st: 25 km/h (16 mi/h)

# OPERATION AND IMPORTANT RIDING POINTS

**Engine break-in** 

1000-1600 km (600-1000 mi)

Avoid prolonged operation above 5400 r/min.

There is never a more important period in the life of your engine than the period between 0 and 1600 km (1000 mi). For this reason, you should read the following material carefully.

1600 km (1000 mi) and beyond The vehicle can now be operated normally. ECA10310 **NOTICE** 

Since the engine is brand new, do not put an excessive load on it for the first 1600 km (1000 mi). 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.

EAU17123

EAU16841

### 0-1000 km (0-600 mi)

Avoid prolonged operation above 4500 r/min. NOTICE: After 1000 km (600 mi) of operation, the engine oil and final gear oil must be changed, and the oil filter cartridge or element replaced. [ECA10332]

- 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**

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

EWA10311

EAU17213

# **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 and be burned.
- Do not park on a slope or on soft ground, otherwise the vehicle may overturn, increasing the risk of a fuel leak and fire.
- Do not park near grass or other flammable materials which might catch fire.

# PERIODIC MAINTENANCE AND ADJUSTMENT

EAU17244

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

The intervals given in the periodic maintenance charts 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.

EWA10321

## **WARNING**

Failure to properly maintain the vehicle or performing maintenance activities incorrectly may increase your risk of injury or death during service or while using the vehicle. If you are not familiar with vehicle service, have a Yamaha dealer perform service.

**WARNING** 

Turn off the engine when performing maintenance unless otherwise specified.

- A running engine has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires.
- Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning – possibly leading to death. See page 2-3 for more information about carbon monoxide.

EWA15460

EWA15122

# **WARNING**

Brake discs, calipers, drums, and linings can become very hot during use. To avoid possible burns, let brake components cool before touching them.

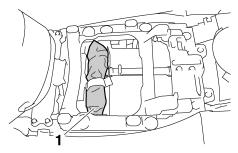
EAU17302

Emission controls not only function to ensure cleaner air, but are also vital to proper engine operation and maximum performance. In the following periodic maintenance charts, the services related to emissions control are grouped separately. These services require specialized data, knowledge, and equipment. Maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual that is certified (if applicable). Yamaha dealers are trained and equipped to perform these particular services.

# PERIODIC MAINTENANCE AND ADJUSTMENT

### Owner's tool kit





#### 1. Owner's tool kit

The owner's tool kit is located under the rider seat. (See page 4-30.)

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.

TIP \_\_\_\_\_

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

#### TIP

- From 24000 mi (37000 km) or 36 months, repeat the maintenance intervals starting from 8000 mi (13000 km) or 12 months.
- Items marked with an asterisk require special tools, data and technical skills, have a Yamaha dealer perform the service.

# Periodic maintenance chart for the emission control system

EAU17601

				INITIAL ODOMETER READINGS					
No.		ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
1	*	Fuel line	Check fuel hoses for cracks or damage.     Replace if necessary.		<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>
2	*	Spark plugs	Check condition.     Adjust gap and clean.     Replace every 8000 mi (13000 km) or 12 months.		<b>√</b>	Replace.	<b>V</b>	Replace.	~
3	*	Valve clearance	Check and adjust valve clearance when engine is cold.	Every 26600 mi (42000 km)					
4	*	Crankcase breather system	Check breather hose for cracks or damage.     Replace if necessary.		V	<b>√</b>	√	√	√
5	*	Fuel injection	Adjust synchronization.	√	$\sqrt{}$	V	√	√	V
6	*	Exhaust system	Check for leakage. Tighten if necessary. Replace gasket(s) if necessary.		V	V	V	V	V

7

				INITIAL	INITIAL ODOMETER READINGS						
N	lo.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months		
7	*	Evaporative emission control system (for California only)	Check control system for damage.     Replace if necessary.				<b>V</b>		<b>√</b>		
8	*	Air induction system	<ul> <li>Check the air cut-off valve, reed valve, and hose for damage.</li> <li>Replace any damaged parts.</li> </ul>			<b>V</b>		√			

## General maintenance and lubrication chart

EAU32188

		ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
N	о.			600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months	
1		Air filter element	Clean with compressed air.     Replace if necessary.		<b>V</b>	<b>√</b>	<b>V</b>	<b>V</b>	<b>V</b>	
2	*	Clutch	<ul><li>Check operation and fluid leakage.</li><li>Correct if necessary.</li></ul>	V	V	<b>√</b>	<b>√</b>	V	<b>√</b>	
3	*	Front brake	Check operation, fluid level, and for fluid leakage.     Replace brake pads if necessary.	√	<b>V</b>	<b>√</b>	<b>√</b>	√	~	
4	*	Rear brake	Check operation, fluid level, and for fluid leakage.     Replace brake pads if necessary.	√	<b>V</b>	<b>√</b>	<b>√</b>	√	<b>√</b>	
5	*	Brake hoses	Check for cracks or damage.     Check for correct routing and clamping.		<b>V</b>	<b>√</b>	<b>√</b>	√	<b>√</b>	
			Replace.			Every	4 years			
6	*	Brake fluid	Replace.	Every 2 years						
7	*	Wheels	Check runout and for damage.     Replace if necessary.		√	√	√	V	<b>V</b>	
8	*	Tires	<ul> <li>Check tread depth and for damage.</li> <li>Replace if necessary.</li> <li>Check air pressure.</li> <li>Correct if necessary.</li> </ul>		<b>√</b>	V	V	<b>V</b>	V	

		ITEM	ROUTINE	INITIAL		ODO	METER READ	DINGS	
N	о.			600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
9	*	Wheel bearings	Check bearings for smooth operation.     Replace if necessary.		<b>√</b>	<b>V</b>	<b>√</b>	<b>√</b>	<b>√</b>
10	*	Swingarm pivot bearings	Check bearing assemblies for looseness.     Moderately repack with lithiumsoap-based grease.			V		Repack.	
11	*	Steering bearings	Check bearing assemblies for looseness.	<b>V</b>	V	<b>√</b>	√	√	<b>V</b>
Ľ			Moderately repack with lithium- soap-based grease.	Every 16000 mi (25000 km)					
12	*	Chassis fasteners	Check all chassis fitting and fasteners.     Correct if necessary.		<b>√</b>	<b>V</b>	<b>√</b>	<b>√</b>	<b>√</b>
13		Brake lever pivot shaft	Apply silicone grease lightly.		√	<b>V</b>	<b>√</b>	<b>V</b>	<b>V</b>
14		Brake pedal pivot shaft	Apply lithium-soap-based grease lightly.		√	<b>√</b>	<b>√</b>	<b>√</b>	<b>V</b>
15		Clutch lever pivot shaft	Apply silicone grease lightly.		<b>V</b>	<b>V</b>	√	<b>V</b>	<b>V</b>
16		Shift pedal pivot shaft	Apply lithium-soap-based grease lightly.		V	<b>V</b>	<b>V</b>	<b>V</b>	1
17	*	Centerstand and sidestand pivots	Check operation.     Apply lithium-soap-based grease lightly.		V	<b>V</b>	V	<b>V</b>	<b>√</b>

				INITIAL	INITIAL ODOMETER READINGS						
N	ο.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months		
18	*	Sidestand switch	Check operation and replace if necessary.	V	V	√	V	V	<b>√</b>		
19	*	Front fork	<ul><li>Check operation and for oil leakage.</li><li>Replace if necessary.</li></ul>		<b>√</b>	V	<b>√</b>	<b>√</b>	<b>√</b>		
20	*	Shock absorber assembly	<ul><li>Check operation and for oil leakage.</li><li>Replace if necessary.</li></ul>		<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>		
21	*	Rear suspension link pivots	Apply lithium-soap-based grease lightly.					<b>√</b>			
22		Engine oil	Change (warm engine before draining).	<b>V</b>	V	√	<b>√</b>	<b>V</b>	<b>V</b>		
23		Engine oil filter car- tridge	Replace.	<b>V</b>		√		<b>V</b>			
24	*	Cooling system	<ul><li>Check hoses for cracks or damage.</li><li>Replace if necessary.</li></ul>		<b>√</b>	V	<b>√</b>	<b>√</b>	<b>√</b>		
			Change coolant.					$\sqrt{}$			
25	*	Final gear oil	Check oil level and for leakage.     Change at initial 600 mi (1000 km) or 1 month, and thereafter every 16000 mi (25000 km) or 24 months.	Change.		V		Change.			
26	*	Front and rear brake switches	Check operation.	<b>V</b>	<b>V</b>	√	<b>V</b>	<b>V</b>	<b>V</b>		

		ITEM	ROUTINE	INITIAL	INITIAL ODOMETER READINGS						
N	о.			600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months		
27	*	Control cables	Apply Yamaha chain and cable lube or engine oil thoroughly.	<b>V</b>	<b>V</b>	<b>V</b>	√	<b>V</b>	<b>V</b>		
28	*	Throttle grip	<ul> <li>Check operation.</li> <li>Check throttle grip free play, and adjust if necessary.</li> <li>Lubricate cable and grip housing.</li> </ul>		<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	√		
29	*	Lights, signals and switches	Check operation.     Adjust headlight beam.	<b>V</b>	<b>V</b>	<b>V</b>	√	<b>V</b>	<b>V</b>		

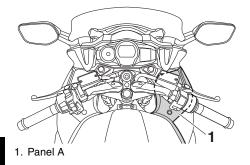
EAU17660

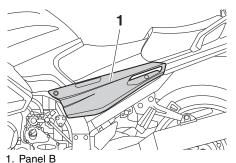
#### TIP

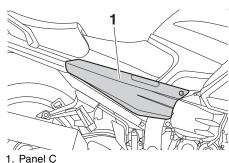
- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake and clutch systems
  - After disassembling the brake or clutch master cylinders, caliper cylinders or clutch release cylinder, always change the fluid. Regularly check the brake and clutch fluid levels and fill the reservoirs as required.
  - Replace the oil seals on the inner parts of the brake or clutch master cylinders, caliper cylinders and clutch release cylinder every two years.
  - Replace the brake and clutch hoses every four years or if cracked or damaged.

# Removing and installing panels

The panels shown 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.





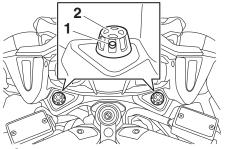


#### Panel A

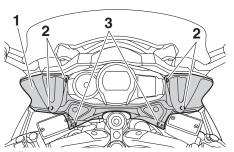
## To remove the panel

Remove each headlight beam adjusting knob by removing the screw.

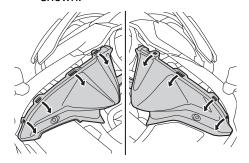
EAU54130

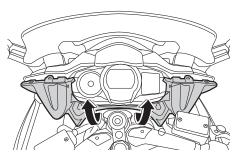


- 1. Screw
- 2. Headlight beam adjusting knob
- 2. Remove the bolts and the quick fasteners.

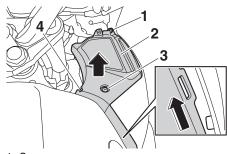


- 1. Front cowling
- 2. Bolt
- 3. Quick fastener
- 3. Take the front cowling off as shown.





Remove the bolt, screw and quick fastener, and then take the panel off.



- 1. Screw
- 2. Panel A
- 3. Bolt
- 4. Quick fastener

## To install the panel

 Place the panel in its original position, and then install the bolt, screw and quick fastener.

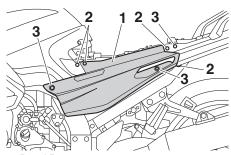


- 2. Place the front cowling in its original position, and then install the bolts and quick fasteners.
- 3. Install each headlight beam adjusting knob by installing the screw.
- 4. Adjust the headlight beam if necessary. (See page 4-35.)

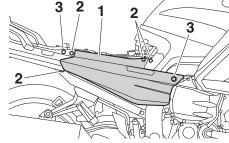
#### Panels B and C

### To remove a panel

- 1. Remove the seats. (See page 4-30.)
- 2. Remove the bolts and the quick fastener screws.

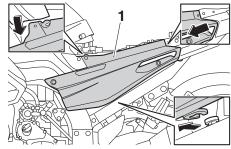


- 1. Panel B
- 2. Quick fastener screw
- 3. Bolt



- 1. Panel C
- 2. Quick fastener screw
- 3. Bolt

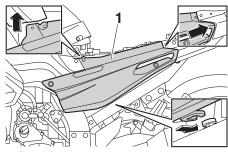
 Pull the bottom of the panel outward, pull the front of the panel downward, and then slide the panel forward to release it in the rear as shown.



1. Panel B

## To install a panel

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



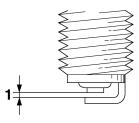
- 1. Panel B
- 2. Install the seats.

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 vehicle 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 operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle. If a spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

Specified spark plug: NGK/CPR8EA-9 Before installing a spark plug, the spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification.



1. Spark plug gap

Spark plug gap:

0.8-0.9 mm (0.031-0.035 in)

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: 13 Nm (1.3 m·kgf, 9.4 ft·lbf) TIP

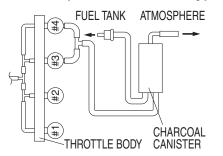
If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4–1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

ECA10840

**NOTICE** 

Do not use any tools to remove or install the spark plug cap, otherwise the ignition coil coupler may get damaged. The spark plug cap may be difficult to remove because the rubber seal on the end of the cap fits tightly. To remove the spark plug cap, simply twist it back and forth while pulling it out; to install it, twist it back and forth while pushing it in.

# Canister (for California only)



This model is equipped with a canister to prevent the discharging of fuel vapor into the atmosphere. Before operating this vehicle, make sure to check the following:

- Check each hose connection.
- Check each hose and canister for cracks or damage. Replace if damaged.
- Make sure that the canister breather is not blocked, and if necessary, clean it.

# Engine oil and oil filter cartridge

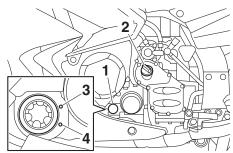
The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter cartridge replaced at the intervals specified in the periodic maintenance and lubrication chart.

## To check the engine oil level

- Place the vehicle on the centerstand. A slight tilt to the side can result in a false reading.
- Start the engine, warm it up for several minutes, and then turn it off.
- 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.

#### TIP

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

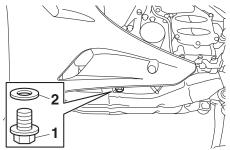


- 1. Engine oil level check window
- 2. Engine oil filler cap
- 3. Maximum level mark
- 4. Minimum level mark
- If the engine oil is below the minimum level mark, add sufficient oil
  of the recommended type to raise
  it to the correct level.

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

- Place the vehicle on a level surface.
- 2. Start the engine, warm it up for several minutes, and then turn it off.
- 3. Place an oil pan under the engine to collect the used oil.

 Remove the engine oil filler cap, the engine oil drain bolt and its gasket to drain the oil from the crankcase.

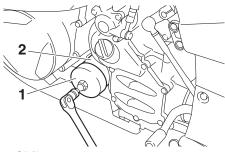


- 1. Engine oil drain bolt
- 2. Gasket

### TIP \_\_\_\_\_

Skip steps 5–7 if the oil filter cartridge is not being replaced.

5. Remove the oil filter cartridge with an oil filter wrench.

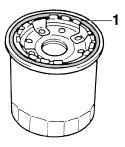


- 1. Oil filter wrench
- 2. Oil filter cartridge

#### TIP

An oil filter wrench is available at a Yamaha dealer.

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

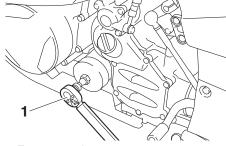


1. O-ring

#### TIF

Make sure that the O-ring is properly seated.

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



1. Torque wrench

#### **Tightening torque:**

Oil filter cartridge:

17 Nm (1.7 m·kgf, 12 ft·lbf)

8. Install the engine oil drain bolt and its new gasket, and then tighten the bolt to the specified torque.

### **Tightening torque:**

Engine oil drain bolt: 43 Nm (4.3 m·kgf, 31 ft·lbf)

Refill with the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

## Recommended engine oil:

See page 9-1.

#### Oil quantity:

Without oil filter cartridge replacement:

3.80 L (4.02 US qt, 3.34 Imp.qt) With oil filter cartridge replacement: 4.00 L (4.23 US qt, 3.52 Imp.qt)

#### TIP

Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down.

### NOTICE

- 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.
- Make sure that no foreign material enters the crankcase.
- 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.

#### TIF

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

### NOTICE

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

ECA10401

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

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 vehicle. In addition, the final gear oil level must be checked and the oil changed as follows

EWA10370

## **WARNING**

Make sure that no foreign material enters the final gear case.

at the intervals specified in the periodic

maintenance and lubrication chart.

 Make sure that no oil gets on the tire or wheel.

## To check the final gear oil level

 Place the vehicle on the centerstand.

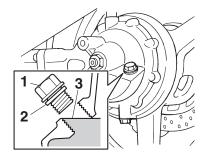
#### TIP

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

2. Remove the final gear oil filler bolt and its gasket, and then check the oil level in the final gear case.

#### TIP

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



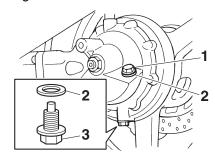
- 1. Final gear oil filler bolt
- 2. Gasket
- 3. Correct oil level
  - If the oil is below the brim of the filler hole, add sufficient oil of the recommended type to raise it to the correct level.
- 4. Check the gasket for damage, and replace it if necessary.
- 5. Install the final gear oil filler bolt and its gasket, and then tighten the bolt to the specified torque.

## Tightening torque:

Final gear oil filler bolt: 23 Nm (2.3 m·kgf, 17 ft·lbf)

## To change the final gear oil

- Place the vehicle on a level surface.
- 2. Place an oil pan under the final gear case to collect the used oil.
- Remove the final gear oil filler bolt, the final gear oil drain bolt and their gasket to drain the oil from the final gear case.



- 1. Final gear oil filler bolt
- 2. Gasket
- 3. Final gear oil drain bolt
- 4. Install the final gear oil drain bolt and its new gasket, and then tighten the bolt to the specified torque.

### **Tightening torque:**

Final gear oil drain bolt: 23 Nm (2.3 m·kgf, 17 ft·lbf)

5. Refill with the recommended final gear oil to the brim of the filler hole.

#### Recommended final gear oil:

Yamaha genuine shaft drive gear oil SAE 80 API GL-5

#### Oil quantity:

0.20 L (0.21 US qt, 0.18 Imp.qt)

- Check the oil filler bolt gasket for damage, and replace it if necessary.
- Install the oil filler bolt and its gasket, and then tighten the bolt to the specified torque.

#### **Tightening torque:**

Final gear oil filler bolt: 23 Nm (2.3 m·kgf, 17 ft·lbf)

Check the final gear case for oil leakage. If oil is leaking, check for the cause.

## Coolant

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

EAU54160

#### To check the coolant level

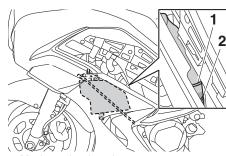
1. Place the vehicle on the centerstand.

#### TIP

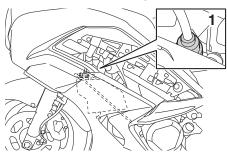
- The coolant level must be checked on a cold engine since the level varies with engine temperature.
- Make sure that the vehicle is positioned straight up when checking the coolant level. A slight tilt to the side can result in a false reading.
- 2. Remove the left cowling vent panel. (See page 4-36.)
- 3. Check the coolant level in the coolant reservoir.

#### TIF

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



- 1. Maximum level mark
- 2. Minimum level mark
  - If the coolant is at or below the minimum level mark, remove the coolant reservoir cap.



- 1. Coolant reservoir cap
  - Add coolant or distilled water to raise the coolant to the maximum level mark, and install the coolant

reservoir cap. WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot. [EWA15161] NOTICE: 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 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.

[ECA10472]

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

0.25 L (0.26 US qt, 0.22 Imp.qt)

6. Install the panel.

## Changing the coolant

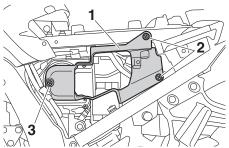
The coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer change the coolant. WARNING! Never attempt to remove the radiator cap when the engine is hot. [EWA10381]

EAU33031

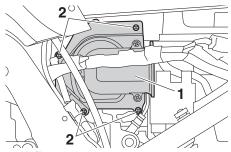
# Cleaning the air filter element

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

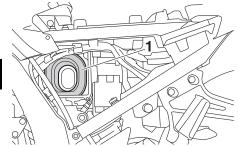
- 1. Remove panel B. (See page 7-9.)
- Remove the intake air shroud by removing the screw and the quick fastener screws.



- 1. Intake air shroud
- 2. Quick fastener screw
- 3. Screw
  - 3. Remove the air filter case cover by removing the screws.

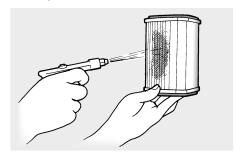


- 1. Air filter case cover
- 2. Screw
- 4. Pull the air filter element out.



- 1. Air filter element
- Lightly tap the air filter element to remove most of the dust and dirt, and then blow the remaining dirt

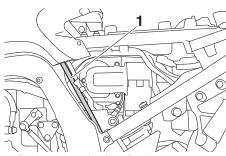
out with compressed air as shown. If the air filter element is damaged, replace it.



 Insert the air filter element into the air filter case. NOTICE: 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 piston(s) and/or cylinder(s) may become excessively worn.

[ECA10481]

Install the air filter case cover by installing the screws. NOTICE:
 Make sure that the fuel tank breather/overflow hose is not pinched. [ECA15411]



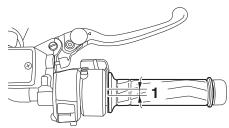
- 1. Fuel tank breather/overflow hose
- 8. Install the intake air shroud by installing the screw and the quick fastener screws.
- 9. Install the panel.

Checking the engine idling speed

Check the engine idling speed and, if necessary, have it corrected by a Yamaha dealer.

Engine idling speed: 1000–1100 r/min

# Checking the throttle grip free play



1. Throttle grip free play

The throttle grip free play should measure 3.0–5.0 mm (0.12–0.20 in) at the inner edge of the throttle grip. Periodically check the throttle grip free play and, if necessary, have a Yamaha dealer adjust it.

## Valve clearance

EAU21401

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** 

weight of rider, passenger, cargo, and accessories approved for this model.

Tires are the only contact between the vehicle and the road. Safety in all conditions of riding depends on a relatively small area of road contact. Therefore, it is essential to maintain the tires in good condition at all times and replace them at the appropriate time with the specified tires.

## Tire air pressure

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

EWA10503

**WARNING** 

Operation of this vehicle with improper tire pressure may cause severe injury or death from loss of control.

- 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

Tire air pressure (measured on cold tires):

0–90 kg (0–198 lb):

Front:

250 kPa (2.50 kgf/cm<sup>2</sup>, 36 psi)

290 kPa (2.90 kgf/cm², 42 psi)

FJR13AD 90-215 kg (198-474 lb) FJR13ADC 90-214 kg (198-472 lb):

Front:

250 kPa (2.50 kgf/cm<sup>2</sup>, 36 psi)

Rear:

290 kPa (2.90 kgf/cm², 42 psi)

**High-speed riding:** 

Front:

250 kPa (2.50 kgf/cm², 36 psi)

Rear:

290 kPa (2.90 kgf/cm<sup>2</sup>, 42 psi)

Maximum load\*:

FJR13AD 215 kg (474 lb) FJR13ADC 214 kg (472 lb)

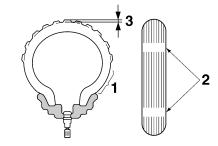
 \* Total weight of rider, passenger, cargo and accessories

# **WARNING**

Never overload your vehicle. Operation of an overloaded vehicle could cause an accident.

EWA10511

## Tire inspection



- 1. Tire sidewall
- 2. Tire wear indicator
- 3. Tire tread depth

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

Minimum tire tread depth (front and rear):

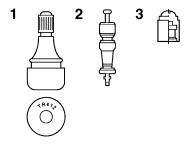
1.0 mm (0.04 in)

EWA10581

# **WARNING**

- It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately.
- The replacement of all wheeland brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience to do so.
- Ride at moderate speeds after changing a tire since the tire surface must first be "broken in" for it to develop its optimal characteristics.

#### Tire information



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

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

Tires age, even if they have not been used or have only been used occasionally. Cracking of the tread and sidewall rubber, sometimes accompanied by carcass deformation, is an evidence of ageing. Old and aged tires shall be checked by tire specialists to ascertain their suitability for further use.

# **MARNING**

EWA10481

- The front and rear tires should be of the same make and design, otherwise the handling characteristics of the motorcycle may be different, which could lead to an accident.
- 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.

After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd.

#### Front tire:

Size:

120/70 ZR17M/C (58W) Manufacturer/model:

BRIDGESTONE/BT023F F

## Rear tire:

Size:

180/55 ZR17M/C (73W)

Manufacturer/model:

BRIDGESTONE/BT023R F

#### FRONT and REAR:

Tire air valve: TR412

Valve core:

#9100 (original)

EWA10600

# WARNING

This motorcycle is fitted with superhigh-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 (60 mi) 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.

## Cast wheels

To maximize the performance, durabil-

EAU21962

ity, and safe operation of your vehicle, note the following points regarding the specified wheels.

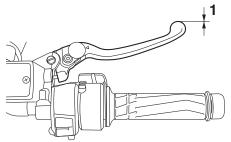
- The wheel rims should be checked for cracks, bends, warpage or other damage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either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

Clutch lever

EAU22073

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. (See page 7-26.) 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.

Checking the brake lever free play



1. No brake lever free play

There should be no free play at the brake lever end. If there is free play, have a Yamaha dealer inspect the brake system.

EWA14211

**WARNING** 

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

## **Brake light switches**

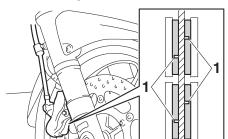
The brake light, which is activated by the brake pedal and brake lever, should come on just before braking takes effect. Since the brake light switches are components of the cruise control system, they must be adjusted by a Yamaha dealer, who has the necessary professional knowledge and experience.

EAU22282

# 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.

## Front brake pads



1. Brake pad wear indicator groove

The front brake calipers are equipped with two sets of brake pads.

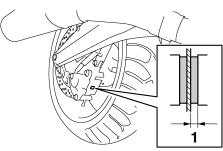
Each front brake pad is provided with a wear indicator groove, which allows you to check the brake pad wear without having to disassemble the brake. To check a brake pad for wear, check its wear indicator groove. If a brake pad has worn to the point that the wear indi-

cator groove has almost disappeared, have a Yamaha dealer replace the brake pads as a set.

FALI22500

## Rear brake pads

FAU43431



1. Lining thickness

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 (0.03 in), have a Yamaha dealer replace the brake pads as a set.

## Checking the brake and clutch fluid levels

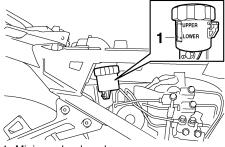
Before riding, check that the brake and clutch fluids are above the minimum level marks. Check the brake and clutch fluid levels with the tops of the reservoirs level. Replenish the brake and clutch fluids if necessary.

#### Front brake



1. Minimum level mark

#### Rear brake



1. Minimum level mark

#### Clutch



TIP

The rear brake fluid reservoir is located behind panel C. (See page 7-9.)

Specified brake and clutch fluid: DOT 4 brake fluid

EWA16030

# **WARNING**

Improper maintenance can result in loss of braking ability or clutch operation. Observe these precautions:

- Insufficient brake or clutch fluid may allow air to enter the brake or clutch system, reducing braking or clutch performance.
- Clean the filler caps before removing. Use only DOT 4 brake fluid from a sealed container.
- Use only the specified brake fluid; otherwise, the rubber seals may deteriorate, causing leakage.
- Refill with the same type of brake fluid. Adding a brake fluid other than DOT 4 may result in a harmful chemical reaction.
- Be careful that water or dust 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.

ECA17640

## **NOTICE**

Brake fluid may damage painted surfaces or plastic parts. Always clean up spilled fluid immediately.

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.

As the brake pads wear, it is normal for the brake fluid level to gradually go down. A low brake fluid level may indicate worn brake pads and/or brake system leakage; therefore, be sure to check the brake pads for wear and the brake system for leakage. A low clutch fluid level may indicate clutch system leakage; therefore, be sure to check the clutch system for leakage. If the brake or clutch fluid level goes down suddenly, have a Yamaha dealer check the cause before further riding.

Changing the brake and clutch fluids

Have a Yamaha dealer change the brake and clutch fluids at the intervals specified in the periodic maintenance

and lubrication chart or in the TIP 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 vears.
- Brake and clutch hoses: Replace every four years.

EAU22752

## Checking and lubricating the cables

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

[EWA10711]

#### **Recommended Jubricant:**

Yamaha Chain and Cable Lube or engine oil

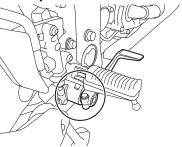
# Checking and lubricating the throttle grip and cable

The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance chart. The throttle cable is equipped with a rubber cover. Make sure that the cover is securely installed. Even though the cover is installed correctly, it does not completely protect the cable from water entry. Therefore, use care not to pour water directly onto the cover or cable when washing the vehicle. If the cable or cover becomes dirty, wipe clean with a moist cloth.

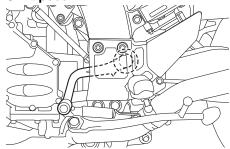
# Checking and lubricating the brake and shift pedals

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

### Brake pedal



## Shift pedal

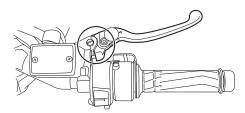


**Recommended lubricant:** Lithium-soap-based grease

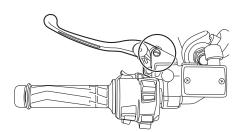
# Checking and lubricating the brake and clutch levers

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

#### **Brake lever**



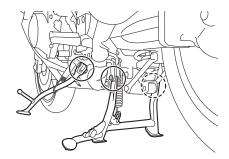
#### Clutch lever



## Recommended lubricant:

Silicone grease

# 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.

EWA10741

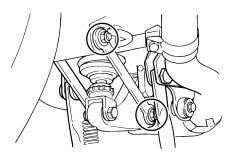
# **MARNING**

If the centerstand or sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it. Otherwise, the centerstand or sidestand could contact the ground and distract the operator, resulting in a possible loss of control.

**Recommended lubricant:** 

Lithium-soap-based grease

# Lubricating the rear suspension



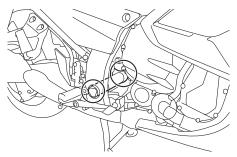
The pivoting points of the rear suspension must be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

#### Recommended lubricant:

Lithium-soap-based grease

#### EAU23251

# Lubricating the swingarm pivots



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

#### **Recommended lubricant:**

Lithium-soap-based grease

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

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

## To check the operation

- Place the vehicle on a level surface and hold it in an upright position. WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over. [EWA10751]
- While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

NOTICE

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

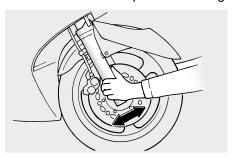
ECA10590

## Checking the steering

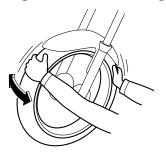
Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

EAU45511

- 1. Place the vehicle on the centerstand. WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over. [EWA10751]
- 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.



# 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.

## **Battery**



- Battery
- 2. Positive battery lead (red)
- 3. Negative battery lead (black)

The battery is located under panel A. (See page 7-9.)

This model is equipped with a VRLA (Valve Regulated Lead Acid) battery. There is no need to check the electrolyte or to add distilled water. However, the battery lead connections need to be checked and, if necessary, tightened.

FWA1076

# **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 BATTER-IES OUT OF THE REACH OF CHILDREN.

### 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 vehicle is equipped with optional electrical accessories.

ECA1652

## **NOTICE**

To charge a VRLA (Valve Regulated Lead Acid) battery, a special (constant-voltage) battery charger is required. Using a conventional battery charger will damage the battery.

## To store the battery

 If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place. NOTICE: When removing the battery, be sure the key is turned to "OFF", then disconnect the negative lead before disconnecting the positive lead.

[ECA16302]

- 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. *NOTICE:* When installing the battery, be sure the key

is turned to "OFF", then connect the positive lead before connecting the negative lead.

[ECA16840]

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

ECA16530

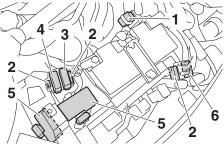
### **NOTICE**

Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.

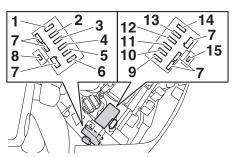
Replacing the fuses

The fuse boxes and individual fuses are located under panel A. (See page 7-9.)

EAU54510



- 1. Main fuse 1
- 2. Spare fuse
- 3. Cruise control fuse
- 4. Brake light fuse
- 5. Fuse box
- 6. Main fuse 2



- 1. ABS motor fuse
- 2. ABS solenoid fuse
- 3. Fuel injection system fuse
- Backup fuse (for clock and immobilizer system)
- 5. Electronic throttle valve fuse
- 6. Headlight fuse
- 7. Spare fuse
- 8. Hazard fuse
- 9. Signaling system fuse
- 10. Auxiliary DC jack fuse
- 11.ABS control unit fuse
- 12.Ignition fuse
- 13.Right radiator fan fuse
- 14.Left radiator fan fuse
- 15. Windshield motor fuse

If a fuse is blown, replace it as follows.

1. Turn the key to "OFF" and turn off the electrical circuit in question.

 Remove the blown fuse, and then install a new fuse of the specified amperage. WARNING! 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. [EWA15131]

Specified fuses: Main fuse 1: 50.0 A Main fuse 2: 30.0 A Headlight fuse: 25.0 A Brake light fuse: 1.0 A Signaling system fuse: 10.0 A Ignition fuse: 20.0 A Radiator fan fuse:  $10.0 \, \text{A} \times 2$ Backup fuse: 7.5 A Hazard fuse: 7.5 A Fuel injection system fuse: 15.0 A ABS control unit fuse: 7.5 A ABS motor fuse: 30.0 A ABS solenoid fuse: 20.0 A Cruise control fuse: 1.0 A Auxiliary DC jack fuse: 3.0 A Windshield motor fuse: 20.0 A Electronic throttle valve fuse: 7.5 A

- 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.

**Headlight bulb** 

If a headlight does not come on, have a Yamaha dealer check its electrical circuit or replace the bulb.

ECA16580

**NOTICE** 

Do not affix any type of tinted film or stickers to the headlight lens.

EAU40361

# Front turn signal/position light

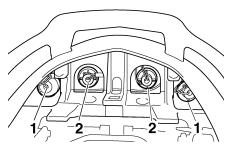
This model is equipped with LED-type front turn signal/position lights.

If a front turn signal/position light does not come on, have a Yamaha dealer check it.

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

1. Remove the passenger seat. (See page 4-30.)

Remove the turn signal light bulb socket (together with the bulb) or the tail/brake light bulb socket (together with the bulb) by turning it counterclockwise.



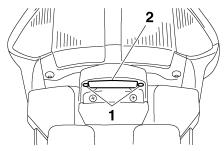
- 1. Turn signal light bulb socket
- 2. Tail/brake light bulb socket
- Remove the burnt-out bulb by pushing it in and turning it counterclockwise.
- Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.

5. Install the socket (together with the bulb) by turning it clockwise.

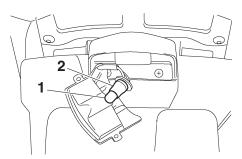
6. Install the passenger seat.

# Replacing the license plate light bulb

1. Remove the license plate light unit by removing the screws.

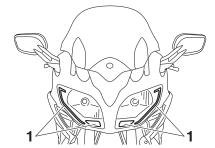


- 1. Screw
- 2. License plate light unit
  - Remove the license plate light bulb socket (together with the bulb) by pulling it out.



- 1. License plate light bulb
- 2. License plate light bulb socket
  - 3. Remove the burnt-out bulb by pulling it out.
- 4. Insert a new bulb into the socket.
- 5. Install the socket (together with the bulb) by pushing it in.
- 6. Install the license plate light unit by installing the screws.

# **Auxiliary light**



1. Auxiliary light

This model is equipped with LED-type auxiliary lights.

If an auxiliary light does not come on, have a Yamaha dealer check it.

Troubleshooting

EAU25871

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.

EWA15141

# **WARNING**

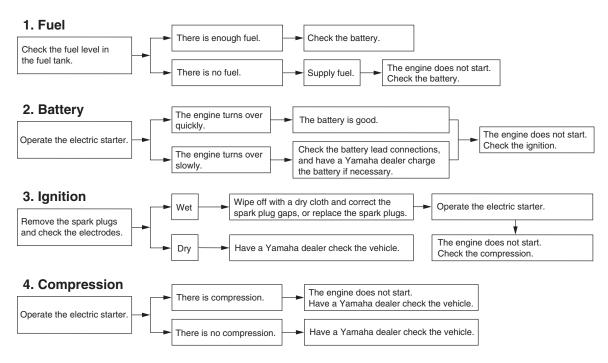
When checking the fuel system, do not smoke, and make sure there are no open flames or sparks in the area, including pilot lights from water

heaters or furnaces. Gasoline or gasoline vapors can ignite or explode, causing severe injury or property damage.

# **Troubleshooting charts**

#### EAU42504

## Starting problems or poor engine performance



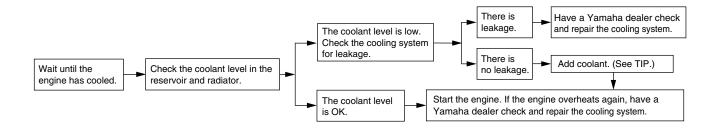
# PERIODIC MAINTENANCE AND ADJUSTMENT

#### **Engine overheating**

EWAT1040

# **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.
- 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.



#### TIP.

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.

#### Matte color caution

EAU37833

ECA15192

# **NOTICE**

Some models are equipped with matte colored finished parts. Be sure to consult a Yamaha dealer for advice on what products to use before cleaning the vehicle. Using a brush, harsh chemical products or cleaning compounds when cleaning these parts will scratch or damage their surface. Wax also should not be applied to any matte colored finished parts.

#### 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.
- Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug caps, are tightly installed
- Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such prod-

ucts onto seals, gaskets and wheel axles. Always rinse the dirt and degreaser off with water.

# Cleaning

EAU54670

ECA10772

# **NOTICE**

- 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 plastic parts (such as cowlings, panels, windshields, headlight lenses, meter lenses, etc.) and the mufflers. Use only a soft, clean cloth or sponge with water to clean plastic. However, if the plastic parts cannot be thoroughly cleaned with water, diluted mild detergent with water may be used. Be sure to rinse

- off any detergent residue using plenty of water, as it is harmful to plastic parts.
- 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 swingarm 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.

#### TIP

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

- Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down.
   NOTICE: Do not use warm water since it increases the corrosive action of the salt. [ECA10791]
- After drying the motorcycle, apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.

#### Windshield cleaning

Avoid using any alkaline or strong acid cleaner, gasoline, brake fluid, or any other solvent. Clean the windshield with a cloth or sponge dampened with a neutral detergent, and after cleaning, thoroughly wash it off with water. For additional cleaning, use Yamaha Windshield Cleaner or other quality cleaner. Some cleaning compounds for plastics may leave scratches on surfaces of the

windshield. Before using them, make a test by polishing an area which does not affect your visibility.

#### After cleaning

- 1. Dry the motorcycle with a chamois or an absorbing cloth.
- Use a chrome polish to shine chrome, aluminum and stainlesssteel parts, including the exhaust system. (Even the thermally induced discoloring of stainlesssteel exhaust systems can be removed through polishing.)
- 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.
- Let the motorcycle dry completely before storing or covering it.

EWA11131

# **WARNING**

Contaminants on the brakes or tires can cause loss of control.

- 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.

ECA10800

# NOTICE

- 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.

#### TIP

- Consult a Yamaha dealer for advice on what products to use.
- Washing, rainy weather or humid climates can cause the headlight lens to fog. Turning the headlight on for a short period of time will help remove the moisture from the lens.

EAU26243

# **Storage**

#### Short-term

Always store your motorcycle in a cool, dry place and, if necessary, protect it against dust with a porous cover. Be sure the engine and the exhaust system are cool before covering the motorcycle.

ECA10810

#### NOTICE

- 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.

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

[EWA10951]

- e. Remove the spark plug caps from the spark plugs, and then install the spark plugs and the spark plug caps.
- Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand.
- 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.
- 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 (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 7-32.

TIP				
Make	any	necessary	repairs	before
storing	the i	motorcycle.	•	

# **SPECIFICATIONS**

## **Dimensions:** Overall length: 2230 mm (87.8 in) Overall width: 750 mm (29.5 in) Overall height: 1325/1455 mm (52.2/57.3 in) Seat height: 805/825 mm (31.7/32.5 in) Wheelbase: 1545 mm (60.8 in) Ground clearance: 130 mm (5.12 in) Minimum turning radius: 3100 mm (122.0 in) Weight: Curb weight: FJR13AD 289 kg (637 lb) FJR13ADC 290 kg (639 lb) Engine: Engine type: Liquid cooled 4-stroke, DOHC Cylinder arrangement: Inline 4-cylinder Displacement: 1298 cm<sup>3</sup> Bore × stroke:

 $79.0 \times 66.2 \text{ mm} (3.11 \times 2.61 \text{ in})$ 

Compression ratio:

Electric starter

Lubrication system:

10.80:1

Starting system:

Wet sump

# **Engine oil:** Recommended brand: YAMALUBE Type: SAE 10W-40, 10W-50, 15W-40, 20W-40 or 20W-50 10 30 50 70 90 110 130 °F SAE 10W-40 SAE 10W-50 SAE 15W-40 SAE 20W-40 SAE 20W-50 -20 -10 0 10 20 30 40 50 °C Recommended engine oil grade: standard MA Engine oil quantity: Without oil filter cartridge replacement:

API service SG type or higher, JASO

3.80 L (4.02 US at, 3.34 Imp.at) With oil filter cartridge replacement:

4.00 L (4.23 US at, 3.52 Imp.at)

### Final gear oil:

Type:

Yamaha genuine shaft drive gear oil SAE 80 API GI -5

Quantity:

0.20 L (0.21 US qt, 0.18 Imp.qt)

#### Cooling system:

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

0.25 L (0.26 US qt, 0.22 Imp.qt) Radiator capacity (including all routes): 2.60 L (2.75 US at, 2.29 Imp.at)

#### Air filter:

Air filter element: Dry element

#### Fuel:

Recommended fuel:

Unleaded gasoline only

Fuel tank capacity:

25.0 L (6.61 US gal, 5.50 Imp.gal)

Fuel reserve amount:

5.5 L (1.45 US gal, 1.21 Imp.gal)

# Fuel injection:

Throttle body:

ID mark:

FJR13AD 1MC1 00 FJR13ADC 1MC4 10

# Spark plug(s):

Manufacturer/model:

NGK/CPR8FA-9

Spark plug gap:

0.8-0.9 mm (0.031-0.035 in)

#### Clutch:

Clutch type:

Wet, multiple-disc

#### Transmission:

Primary reduction ratio:

1.563 (75/48)

Final drive:

Shaft

# **SPECIFICATIONS**

Secondary reduction ratio:	Size:	Rim size:
2.698 (35/37 x 21/27 x 33/9)	180/55 ZR17M/C (73W)	17M/C x MT3.50
Transmission type:	Manufacturer/model:	Rear wheel:
Constant mesh 5-speed	BRIDGESTONE/BT023R F	Wheel type:
Operation:	Loading:	Cast wheel
Left foot operation	Maximum load:	Rim size:
Gear ratio:	FJR13AD 215 kg (474 lb)	17M/C x MT5.50
1st:	FJR13ADC 214 kg (472 lb)	Unified brake system:
2.529 (43/17)	(Total weight of rider, passenger, cargo and	Operation:
2nd:	accessories)	Activated by rear brake
1.773 (39/22)	Tire air pressure (measured on cold	Front brake:
3rd:	tires):	Type:
1.348 (31/23)	Loading condition:	Dual disc brake
4th:	0–90 kg (0–198 lb)	Operation:
1.077 (28/26)	Front:	Right hand operation
5th:	250 kPa (2.50 kgf/cm², 36 psi)	Specified brake fluid:
0.929 (26/28)	Rear:	DOT 4
chassis:	290 kPa (2.90 kgf/cm², 42 psi)	Rear brake:
Frame type:	Loading condition:	Type:
Diamond	FJR13AD 90-215 kg (198-474 lb)	Single disc brake
Caster angle:	FJR13ADC 90-214 kg (198-472 lb)	Operation:
26.00 °	Front:	Right foot operation
Trail:	250 kPa (2.50 kgf/cm <sup>2</sup> , 36 psi)	Specified brake fluid:
109 mm (4.3 in)	Rear:	DOT 4
ront tire:	290 kPa (2.90 kgf/cm <sup>2</sup> , 42 psi)	Front suspension:
Type:	High-speed riding:	Type:
Tubeless	Front:	Telescopic fork
Size:	250 kPa (2.50 kgf/cm², 36 psi)	Spring/shock absorber type:
120/70 ZR17M/C (58W)	Rear:	Coil spring/oil damper
Manufacturer/model:	290 kPa (2.90 kgf/cm <sup>2</sup> , 42 psi)	Wheel travel:
BRIDGESTONE/BT023F F	Front wheel:	135.0 mm (5.31 in)
lear tire:	Wheel type:	Rear suspension:
Type:	Cast wheel	Type:
Tubeless		Swingarm (link suspension)

# **SPECIFICATIONS**

Spring/shock absorber type:	High beam indicator light:
Coil spring/gas-oil damper	LED
Wheel travel:	Oil level warning light:
125.0 mm (4.92 in)	LED
Electrical system:	Turn signal indicator light:
Ignition system:	LED
TCI	Engine trouble warning light:
Charging system:	LED
AC magneto	ABS warning light:
Battery:	LED
Model:	Cruise control "SET" indicator light:
GT14B-4	LED
Voltage, capacity:	Cruise control "ON" indicator light:
12 V, 12.0 Ah	LED
Headlight:	Traction control system indicator/warning
Bulb type:	light:
Halogen bulb	LED
Bulb voltage, wattage × quantity:	Fuses:
Headlight:	Main fuse 1:
12 V, 60.0 W/55.0 W × 2	50.0 A
Tail/brake light:	Main fuse 2:
12 V, 5.0 W/21.0 W × 2	30.0 A
Front turn signal/position light:	Headlight fuse:
LED	25.0 A
Rear turn signal light:	Brake light fuse:
12 V, 21.0 W×2	1.0 A
Auxiliary light:	Signaling system fuse:
LED	10.0 A
License plate light:	Ignition fuse:
12 V, 5.0 W × 1	20.0 A
Meter lighting:	Radiator fan fuse:
LED	
LED	10.0 A × 2
Neutral indicator light:	10.0 A × 2 Hazard fuse: 7.5 A

Fuel injection system fuse: 15.0 A ABS control unit fuse: 7.5 A ABS motor fuse: 30.0 A ABS solenoid fuse: 20.0 A Cruise control fuse: 1.0 A Auxiliary DC jack fuse: 3.0 A Backup fuse: 7.5 A Windshield motor fuse: 20.0 A Electronic throttle valve fuse: 7.5 A

EAU26353

## Key identification number

EAU26381

Vehicle identification number

EAU26400

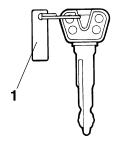
# **Identification numbers**

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.

#### **KEY IDENTIFICATION NUMBER:**

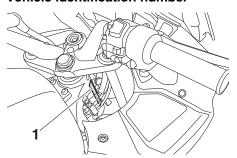
VEHICLE IDENTIFICATION NUMBER:

MODEL LABEL INFORMATION:



1. 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

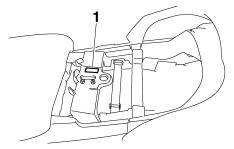
The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.

TIP

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.

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#### Model label



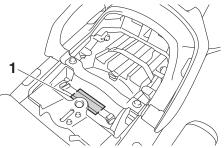
EAU26520

#### 1. Model label

The model label is affixed to the frame under the passenger seat. (See page 4-30.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU48270

# Vehicle Emission Control Information label



1. Vehicle Emission Control Information label

The Vehicle Emission Control Information label is affixed at the location in the illustration. This label shows specifications related to exhaust emissions as required by federal law, state law and Environment Canada.

# Reporting safety defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Yamaha Motor Corporation, U.S.A. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Yamaha Motor Corporation, U.S.A.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

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EAU26560

# Motorcycle noise regulation

#### TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

"AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW".

These acts include tampering with the following systems; i.e., modification, removal, etc.

#### Exhaust system

- Muffler
- Exhaust pipe
- Silencer

#### Intake system

- · Air cleaner case
- · Air cleaner element
- Intake duct

# **Maintenance record**

Copies of work orders and/or receipts for parts purchased and installed on your vehicle will be required to document that maintenance has been completed in accordance with the emissions warranty. The chart below is printed only as a reminder that maintenance work is required. It is not acceptable proof of maintenance work.

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
600 mi (1000 km) or 1 month				
4000 mi (7000 km) or 6 months				
8000 mi (13000 km) or 12 months				
12000 mi (19000 km) or 18 months				
16000 mi (25000 km) or 24 months				
20000 mi (31000 km) or 30 months				
24000 mi (37000 km) or 36 months				
28000 mi (43000 km) or 42 months				
32000 mi (49000 km) or 48 months				

10

## 10

# **CONSUMER INFORMATION**

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
36000 mi (55000 km) or 54 months				
40000 mi (61000 km) or 60 months				

# YAMAHA MOTOR CORPORATION, U.S.A. STREET AND ENDURO MOTORCYCLE LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that new Yamaha motorcycles will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY for Yamaha motorcycles originally equipped with headlight, stoplight, and turn signals shall be one (1) year from the date of purchase, with no mileage limitation.

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

DURING THE PERIOD OF WARRANTY, any authorized Yamaha motorcycle dealer will, free of charge, repair or replace any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become property of Yamaha Motor Corporation, U.S.A.

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

- a) Competition or racing use.
- b) Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
- c) Abnormal strain, neglect, or abuse.
- d) Lack of proper maintenance.
- e) Accident or collision damage.
- f) Modification to original parts.

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

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

- Operate and maintain the motorcycle as specified in the appropriate Owner's Manual, and
- Give notice to an authorized Yamaha motorcycle dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha motorcycle dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

#### EMISSION CONTROL SYSTEM WARRANTY:

Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each Yamaha motorcycle covered by this warranty with a displacement of 50cc or greater, that the vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the period listed immediately below. Failures other than those resulting from defects in material or workmanship, which arise solely as a result of owner abuse and/or lack of proper maintenance, are not covered by this warranty.

Engine	
Displacement	Period
Under 50cc	6,000 km (3,750 miles)
	or five years, whichever occurs first

50cc to 169cc 12,000 km (7,465 miles) or five years whichever occurs first

170cc to 279cc 18,000 km (11,185 miles) or five years, whichever occurs first

280cc and over 30,000 km (18,641 miles) or five years, whichever occurs first

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

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

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

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# **CONSUMER INFORMATION**

#### WARRANTY QUESTIONS AND ANSWERS

- Q. What costs are my responsibility during the warranty period?
- A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark blues, and brake shoes.
- Q. What are some examples of "abnormal" strain, neglect, or abuse?
- A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high rpm, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transportation and/or tie-down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.
- Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
- A. No. The warranty is limited to repair of the machine itself.
- Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
- A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha motorcycle dealer.
- Q. Will the warranty be void or cancelled if I do not operate or maintain my new motorcycle exactly as specified in the Owner's Manual?
- A. No. The warranty on a new motorcycle cannot be "voided" or "cancelled." However, if a particular failure is caused by operation or maintenance other than as described in the Owner's Manual, that failure may not be covered under warranty.
- Q. What responsibility does my dealer have under this warranty?
- A. Each Yamaha motorcycle dealer is expected to:
  - 1. Completely set up every new machine before sale.
  - Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
  - Each Yamaha motorcycle dealer is held responsible for his setup, service and warranty repair work.
- Q. Is the warranty transferable to second owners?
- A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha motorcycle dealer for the policy to remain effective.

#### CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha motorcycle dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding the warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. IF you are still not satisfied and require additional assistance, please write to:

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

When contacting Yamaha Motor Corporation, U.S.A., don't forget to include any important information such as names, addresses, model, V.I.N. (frame number), dates, and receipts.

#### CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new motorcycle, please advise us of your new address by sending a postcard listing your motorcycle model name, V.I.N. (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A. P.O. Box 6555 Cypress, California 90630 Attention: Warranty Department

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

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

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

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, 36 months or, on certain models, even 48 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factorybacked protection can be.
- You don't have to pay anything for covered repairs.
   There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.

- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$250 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

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

# **CONSUMER INFORMATION**

We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires.

#### A special note:

If visiting your dealer isn't convenient, contact Yamaha with your Primary ID number (your frame number). We'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing P.O. Box 6555 Cypress, CA 90630 1-(866)-YES-EXTD (1-866-937-3983)







YAMAHA EXTENDED SERVICE

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