

A Read this manual carefully before operating this vehicle.

OWNER'S MANUAL OUNCE OUNCE

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

YAMAHA

YAMAHA MOTOR ELECTRONICS CO., LTD. 1450-6, Mori, Mori-machi, Shuchi-gun, Shizuoka-ken, 437-0292 Japan

DECLARATION of CONFORMITY

We

Company: YAMAHA MOTOR ELECTRONICS CO., LTD. Address: 1450-6, Mori, Mori-Machi, Shuchi-gun, Shizuoka-Ken, 437-0292 Japan

Hereby declare that the product:

Kind of equipment: IMMOBILIZER

Type-designation: 5SL-00

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

R&TTE Directive(1999/5/EC) EN300 330-2 v1.1.1(2001-6), EN60950-1(2001) Two or Three-Wheel Motor Vehicles Directive(97/24/EC: Chapter 8, EMC)

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$\overline{}$			

General manager of quality assurance div.

011 May/2007

INTRODUCTION

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Welcome to the Yamaha world of motorcycling!

As the owner of the MT01S, you are benefiting from Yamaha's vast experience and newest technology regarding the design and manufacture of high-quality products, which have earned Yamaha a reputation for dependability.

Please take the time to read this manual thoroughly, so as to enjoy all advantages of your MT01S. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your motorcycle, but also in how to safeguard yourself and others from trouble and injury.

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

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

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.

Please read this manual carefully and completely before operating this motorcycle.

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

	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.
	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 the vehicle or other property.
TIP	A TIP provides key information to make procedures easier or clearer.

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<u>∧ SAFETY INFORMATION</u>

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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.

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 4-1 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.
- 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

▲ SAFETY INFORMATION

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 TREAT-MENT.

• 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.

<u>∧ SAFETY INFORMATION</u>

- 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: 196 kg (432 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 recommended by Yamaha, even if sold and installed by a Yamaha dealer.

▲ SAFETY INFORMATION

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.

1

• 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.

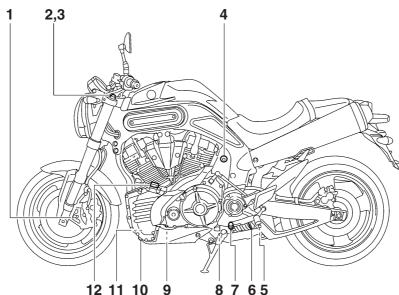
Aftermarket Tires and Rims

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 6-14 for tire specifications and more information on replacing your tires.

DESCRIPTION

Left view

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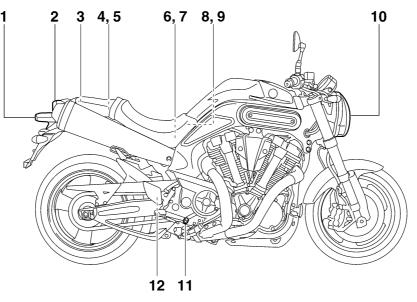
- 1. Front fork compression damping force adjusting bolt (page 3-16)
- 2. Front fork rebound damping force adjusting bolt (page 3-16)
- 3. Front fork spring preload adjusting bolt (page 3-16)
- 4. Seat lock (page 3-16)
- 5. Shock absorber assembly compression damping force adjusting screw (page 3-19)
- 6. Shock absorber assembly spring preload adjusting nut (page 3-19)
- 7. Shift pedal (page 3-11)

7 6 5 8

- 8. Shock absorber assembly rebound damping force adjusting knob (page 3-19)
- 9. Engine oil drain bolt (crankcase) (page 6-9)
- 10.Engine oil drain bolt (oil tank) (page 6-9)
- 11.Engine oil filter cartridge (page 6-9)
- 12.Engine oil filler cap (page 6-9)

DESCRIPTION

Right view



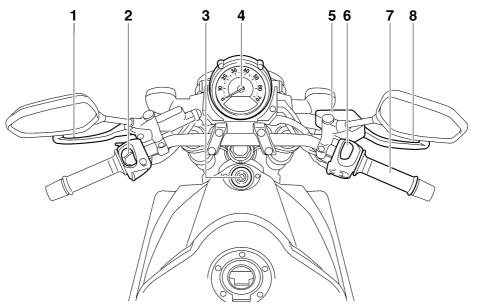
- 1. License plate light (page 6-30)
- 2. Tail/brake light (page 6-29)
- 3. Rear brake fluid reservoir (page 6-18)
- 4. Owner's tool kit (page 6-1)
- 5. Luggage strap holder (page 3-21)
- 6. Fuse box (page 6-26)
- 7. Fuel injection system fuse (page 6-26)
- 8. Main fuse (page 6-26)

9. Battery (page 6-25)10.Headlight (page 6-27)11.Brake pedal (page 3-12)12.Rear brake light switch (page 6-17)

2-2

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Controls and instruments

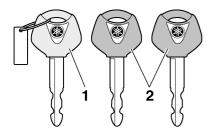


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2

- 1. Clutch lever (page 3-11)
- 2. Left handlebar switches (page 3-9)
- 3. Main switch/steering lock (page 3-2)
- 4. Multi-function display (page 3-5)
- 5. Front brake fluid reservoir (page 6-18)
- 6. Right handlebar switches (page 3-9)
- 7. Throttle grip (page 6-13)
- 8. Brake lever (page 3-12)

Immobilizer system



EAU10976

NOTICE

- 1. Code re-registering key (red bow)
- 2. Standard keys (black bow)

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

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

 an immobilizer system indicator light (See page 3-4.)

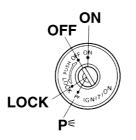
The key with the red bow is used to register codes in each standard key. Since re-registering is a difficult process, take the vehicle along with all three keys to a Yamaha dealer to have them re-registered. Do not use the key with the red bow for driving. It should only be used for re-registering the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

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

- Do not submerse any key in water.
- Do not expose any key to excessively high temperatures.
- Do not place any key close to magnets (this includes, but not limited to, products such as speakers, etc.).
- Do not place items that transmit electrical signals close to any key.
- Do not place heavy items on any key.
- Do not grind any key or alter its shape.
- Do not disassemble the plastic part of any key.
- Do not put two keys of any immobilizer system on the same key ring.
- Keep the standard keys as well as keys of other immobilizer systems away from this vehicle's code re-registering key.

• Keep other immobilizer system keys away from the main switch as they may cause signal interference.

Main switch/steering lock



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

TIP _____

Be sure to use the standard key (black bow) for regular use of the vehicle. To minimize the risk of losing the code reregistering key (red bow), keep it in a safe place and only use it for code reregistering.

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

TIP _____

ON

The headlight comes on automatically when the engine is started and stays on until the key is turned to "OFF", even if the engine stalls.

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OFF

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

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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.

TIP _____

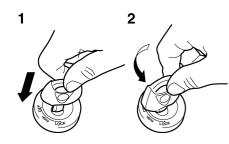
This motorcycle is equipped with a fan for the muffler covers, which is located under the seat. After the main switch is

turned to "OFF", if the temperature of the sensor for the muffler covers exceeds 55 °C (131 °F), the fan will stay on for a maximum of five minutes, and then switch off automatically.

LOCK

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

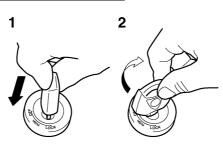
To lock the steering



- 1. Push.
- 2. Turn.
 - 1. Turn the handlebars all the way to the left.

- 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.

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2. Turn.

P∈ (Parking)

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

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The steering is locked, and the taillight, license plate light and auxiliary 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 " $p \in$ ".

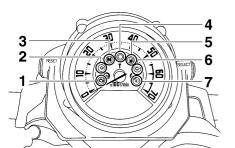
ECA11020

3

NOTICE

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

EAU11004 Indicator and warning lights



- 3
- 1. Engine trouble warning light " To "
- Left turn signal indicator light "<>
 [¬]
 [¬]
 [−]
 [−]
- 3. Neutral indicator light " N "
- 4. Immobilizer system indicator light
- 5. Fuel level warning light "
- 7. High beam indicator light " $\equiv \bigcirc$ "

EAU11030 Turn signal indicator lights "<> ' and " ⇒"

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

EAU11060

Neutral indicator light "N"

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

High beam indicator light " $\equiv \bigcirc$ " This indicator light comes on when the high beam of the headlight is switched on.

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EAU11080

Fuel level warning light "■"

This warning light comes on when the fuel level drops below approximately 3.0 L (0.79 US gal, 0.66 Imp.gal). When this occurs, refuel as soon as possible. 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

This model is also equipped with a selfdiagnosis device for the fuel level detection circuit. If a problem is detected in the fuel level detection circuit, the following cycle will be repeated until the malfunction is corrected: The fuel level warning light will flash eight times, and

then go off for 3.0 seconds. If this occurs, have a Yamaha dealer check the vehicle.

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 3-7 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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Immobilizer system indicator light

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

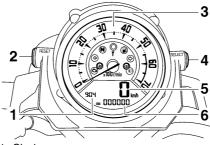
EAU36858

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

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

This model is also equipped with a selfdiagnosis device for the immobilizer system. (See page 3-7 for an explanation of the self-diagnosis device.)

Multi-function display



- 1. Clock
- 2. "RESET" button
- 3. Tachometer
- 4. "SELECT" button
- 5. Speedometer
- 6. Odometer/tripmeter/fuel reserve tripmeter

EWA12312

WARNING

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

The multi-function display is equipped with the following:

• a speedometer

- an odometer
- two tripmeters (which show the distance traveled since they were last set to zero)
- a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on)

3

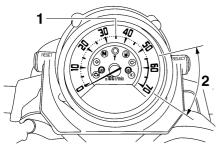
- a clock
- a self-diagnosis device
- a brightness control mode

TIP_

- Be sure to turn the key to "ON" before using the "SELECT" and "RE-SET" buttons except for setting the brightness control mode.
- For the U.K. only: To switch the speedometer and odometer/tripmeter displays between kilometers and miles, press the "SELECT" button for at least two seconds.

a tachometer

Tachometer



- 3
- 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 will sweep once across the r/min range and then return 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: 5500 r/min and above

The tachometer needle flashes when it reaches and exceeds the red zone.

Clock mode



1. Clock

To set the clock

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

Odometer and tripmeter modes



1. Odometer/tripmeter/fuel reserve tripmeter

Pushing the "SELECT" button switches the display between the odometer mode "ODO" and the tripmeter modes "TRIP 1" and "TRIP 2" in the following order:

 $\mathsf{ODO} \to \mathsf{TRIP} \ 1 \to \mathsf{TRIP} \ 2 \to \mathsf{ODO}$

If the fuel level warning light comes on (see page 3-4), the odometer display will automatically change to the fuel reserve tripmeter mode "F-TRIP" and start counting the distance traveled from that point. In that case, pushing the "SELECT" button switches the display between the various tripmeter and odometer modes in the following order: F-TRIP \rightarrow TRIP 1 \rightarrow TRIP 2 \rightarrow ODO \rightarrow F-TRIP

To reset a tripmeter, select it by pushing the "SELECT" button, and then push the "RESET" button for at least one second. If you do not reset the fuel reserve tripmeter manually, it will reset itself automatically and the display will return to the prior mode after refueling and traveling 5 km (3 mi).

Self-diagnosis device



1. 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 or flash and the odome-ter/tripmeter display will indicate an error code.

The self-diagnosis device also detects problems in the immobilizer system circuits.

If a problem is detected in the immobilizer system circuits, the immobilizer system indicator light will flash and the display will indicate an error code.

TIP_

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

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

TIP _____

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

2. If the engine starts, turn it off and try starting the engine with the standard keys.

 If one or both of the standard keys do not start the engine, take the vehicle, the code re-registering key and both standard keys to a Yamaha dealer and have the standard keys re-registered.

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

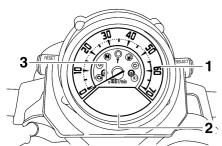
ECA11590

3

NOTICE

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

Brightness control mode



- 3
- 1. Tachometer panel
- 2. LCD
- 3. Tachometer needle

The brightness can be adjusted for the following:

- the tachometer panel (item number "1")
- the LCD (item number "2")
- the tachometer needle (item number "3")

Select the brightness control mode as follows.

- 1. Turn the key to "OFF".
- 2. Push and hold the "SELECT" button.
- 3. Turn the key to "ON", and then release the "SELECT" button after five seconds.

Item number "1" is displayed.

- 1. Tachometer panel
- 2. Item number
- 3. Brightness level
 - 4. Adjust the tachometer panel brightness level by pushing the "RESET" button.
 - 5. Push the "SELECT" button to select the LCD.

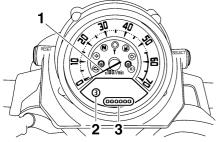
Item number "2" is displayed.

Adjust the LCD brightness level by pushing the "RESET" button.



- 1. LCD
- 2. Item number
- 3. Brightness level
- Push the "SELECT" button to select the tachometer needle. Item number "3" is displayed.

Adjust the tachometer needle brightness level by pushing the "RESET" button.

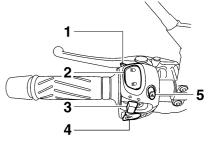


Anti-theft alarm (optional)

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

Handlebar switches

Left



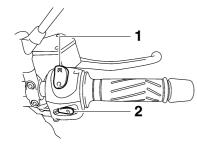
- 1. Tachometer needle
- 2. Item number
- 3. Brightness level
- Push the "SELECT" button and the multi-function display will return to the odometer or tripmeter mode.

- Pass switch "≣O"
- 2. Dimmer switch " $\equiv O / \equiv O$ "
- 3. Turn signal switch "⇐/ᢏ>"
- 4. Horn switch " 🕞 "
- 5. Hazard switch " 🛦 "

3

EAU12348

Right



- U
- 1. Engine stop switch " \bigcirc /\bigotimes "
- 2. Start switch "(s)"

Pass switch "≣⊖"

Press this switch to flash the headlight.

EAU12400

EAU12350

Dimmer switch " $\equiv O/ \le O$ " Set this switch to " $\equiv O$ " for the high beam and to " $\le O$ " for the low beam.

EAU12460

Turn signal switch "⇔/⇔"

To signal a right-hand turn, push this switch to " \Rightarrow ". To signal a left-hand turn, push this switch to " \Rightarrow ". 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.

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

EAU12660

EAU12711

Engine stop switch " \cap / \bigotimes "

Set this switch to " \bigcirc " before starting the engine. Set this switch to " \bigotimes " to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck.

Start switch "(s)"

Push this switch to crank the engine with the starter. See page 5-1 for starting instructions prior to starting the engine.

EAU41700

The engine trouble warning light will 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

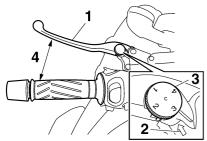
EAU12733

NOTICE

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

3-10

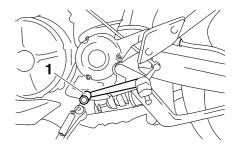
Clutch lever



EAU12830

Make sure that the appropriate setting on the adjusting dial is aligned with the arrow mark on the clutch lever. The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-23.)

Shift pedal



EAU12870

3

1. Shift pedal

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

- 1. Clutch lever
- 2. Arrow mark
- 3. Clutch lever position adjusting dial
- 4. 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.

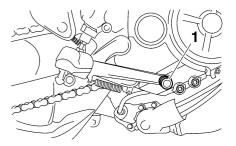
The clutch lever is equipped with a clutch lever position adjusting dial. To adjust the distance between the clutch lever and the handlebar grip, turn the adjusting dial while holding the lever pushed away from the handlebar grip.

EAU33851

Brake lever

be sure to set it by aligning a groove on the adjusting knob with the " \triangle " mark on the brake lever.

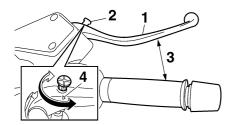
Brake pedal



EAU12941

1. Brake pedal

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



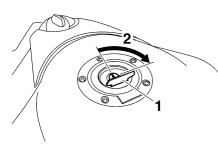
- 1. Brake lever
- 2. Brake lever position adjusting knob
- 3. Distance between brake lever and handlebar grip
- 4. "<u>∧</u>" mark

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

The brake lever is equipped with a brake lever position adjusting knob. To adjust the distance between the brake lever and the handlebar grip, turn the adjusting knob while holding the lever pushed away from the handlebar grip. When the desired position is obtained,

3-12

Fuel tank cap



1. Fuel tank cap lock cover

2. Unlock.

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.

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.

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

Fuel

EWA11091

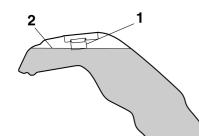
Make sure there is sufficient gasoline in the tank.

EWA10881

EAU13221

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.
- 2. 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.



- 3
- 1. Fuel tank filler tube
- 2. 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 immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes. or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

EAU33501

Recommended fuel: REGULAR UNLEADED GASOLINE ONLY Fuel tank capacity: 15.0 L (3.96 US gal, 3.30 Imp.gal) Fuel reserve amount (when the fuel level warning light comes on): 3.0 L (0.79 US gal, 0.66 Imp.gal)

ECA11400

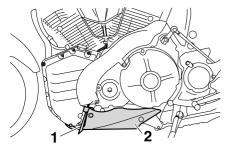
NOTICE

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 regular unleaded gasoline with a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand



Fuel tank breather/overflow hose



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

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 outside of the cowling.

. .

Catalytic converters

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

EWA10862

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.

EAU13445

NOTICE

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

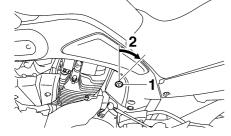
ECA10701

EAU36692

Seat

To remove the seat

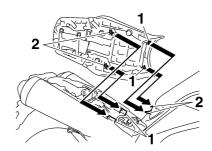
1. Insert the key into the seat lock, and then turn it clockwise.



- 1. Seat lock
- 2. Unlock.
- 2. Pull the seat off.

To install the seat

1. Insert the projections into the seat holders as shown.



- 1. Seat holder
- 2. Projection
- 2. Push the center of the seat down to lock it in place.
- 3. Remove the key.

TIP_

Make sure that the seat is properly secured before riding.

Adjusting the front fork

EWA10180

EAU48091

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

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

ECA10101

NOTICE

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

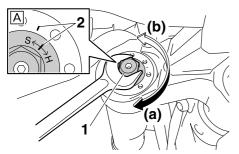
Spring preload

To make any adjustment of the spring preload, the adjuster has to be set to the standard setting first.

To set the standard setting, start by turning the adjusting bolt on each fork leg in direction (a) until it stops, then check the alignment mark position.

a. If the alignment mark on the adjusting bolt is positioned past the alignment mark on the front fork

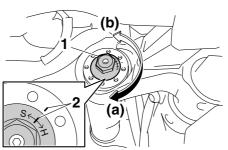
cap as shown in illustration "A", turn the adjusting bolt in direction (b) until the alignment marks match.



1. Spring preload adjusting bolt

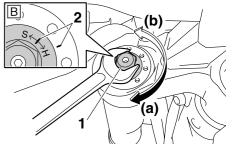
2. Alignment marks

To set the standard setting, turn the adjusting bolt 7 complete turns in direction (b), making sure the alignment marks match.



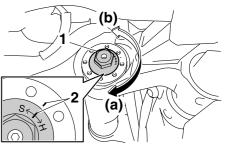
Spring preload adjusting bolt
 Alignment marks

b. If the alignment mark on the adjusting bolt is positioned before the alignment mark on the front fork cap as shown in illustration "B", turn the adjusting bolt in direction (b) until the alignment marks match.



- 1. Spring preload adjusting bolt
- 2. Alignment marks

To set the standard setting, turn the adjusting bolt 6 complete turns in direction (b), making sure the alignment marks match. 3



- 1. Spring preload adjusting bolt
- 2. Alignment marks

To increase the spring preload and thereby hardening it, turn the adjusting bolt in direction (a) from the standard setting, making sure to turn the bolt complete turns so that the alignment marks match.

To decrease the spring preload and thereby softening it, turn the adjusting bolt in direction (b) from the standard setting, making sure to turn the bolt complete turns so that the alignment marks match.

Spring preload setting:

Minimum (soft): 7 complete turns in direction (b) from the standard setting Standard: See explanations above.

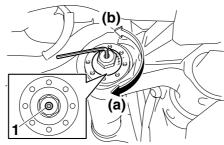
Maximum (hard):

6 complete turns in direction (a) from the standard setting

TIP_

Due to small differences in production, the positions of the alignment marks on the front fork caps may not exactly match the illustrations.

Rebound damping force



1. Rebound damping force adjusting bolt

To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting bolt on each fork leg in direction (a). To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting bolt on each fork leg in direction (b).

Rebound damping setting:

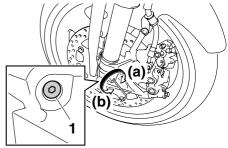
Minimum (soft):

17 click(s) in direction (b)* Standard:

10 click(s) in direction (b)* Maximum (hard):

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

Compression damping force



1. Compression damping force adjusting bolt

To increase the compression damping force and thereby harden the compression damping, turn the adjusting bolt on each fork leg in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting bolt on each fork leg in direction (b).

Compression damping setting: Minimum (soft): 20 click(s) in direction (b)* Standard: 10 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)* * With the adjusting bolt 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 number 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 nut, a rebound damping force adjusting knob and a compression damping force adjusting screw.

ECA10101

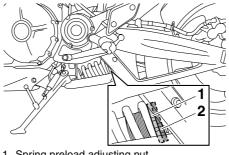
NOTICE

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

Spring preload

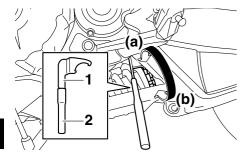
Adjust the spring preload as follows.

1. Loosen the locknut.

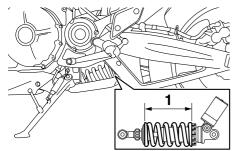


- 1. Spring preload adjusting nut
- 2. Locknut

- To increase the spring preload and thereby harden the suspension, turn the adjusting nut in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting nut in direction (b).
 - Use the special wrench, which was handed out separately at the purchase of the vehicle, to make the adjustment.
 - Attach the extension bar, which is included in the owner's tool kit, to the special wrench.
 - The spring preload setting is determined by measuring distance A, shown in the illustration. The longer distance A is, the lower the spring preload; the shorter distance A is, the higher the spring preload.



- 1. Special wrench
- 2. Extension bar



1. Distance A

Spring preload:

- Minimum (soft):
 - Distance A = 165 mm (6.50 in) Standard:
 - Distance A = 160 mm (6.30 in) Maximum (hard):

Distance A = 152 mm (5.98 in)

3. Tighten the locknut to the specified torque. *NOTICE:* Always tighten the locknut against the adjusting nut, and then tighten the locknut to the specified torque.

[ECA10121]

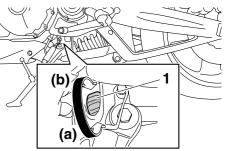
Tightening torque:

Locknut:

25 Nm (2.5 m·kgf, 18 ft·lbf)

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).

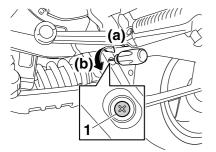


1. Rebound damping force adjusting knob

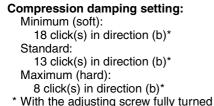
Rebound damping setting: Minimum (soft): 23 click(s) in direction (b)* Standard: 18 click(s) in direction (b)* Maximum (hard): 13 click(s) in direction (b)* * With the adjusting knob fully turned in direction (a)

Compression damping force

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



```
in direction (a)
```

TIP ____

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

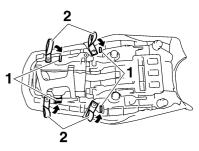
WARNING

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.

EWA10221

Luggage strap holders



EAU36700

3

1. Hook

There are four luggage strap holders on the bottom of the seat. To use the strap holders, remove the seat, unhook the straps from the hooks, and then install the seat with the straps hanging out from under the seat. (See page 3-16.)

^{2.} Luggage strap holder

EXUP system

This model is equipped with Yamaha's EXUP (EXhaust Ultimate Power valve) system. This system boosts engine power by means of a valve that regulates the diameter of the exhaust pipe. The EXUP system valve is constantly adjusted in accordance with the engine speed by a computer-controlled servomotor.

NOTICE

- The EXUP system has been set and extensively tested at the Yamaha factory. Changing these settings without sufficient technical knowledge may result in poor performance of or damage to the engine.
- If the EXUP system cannot be heard when the main switch is turned on, have a Yamaha dealer check it.

EAU15281

ECA10191

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 further down for an explanation of the ignition circuit cut-off system.)

EWA10240

EAU15301

A 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 as described below and have a Yamaha dealer repair it if it does not function properly.

INSTRUMENT AND CONTROL FUNCTIONS

EAU44892

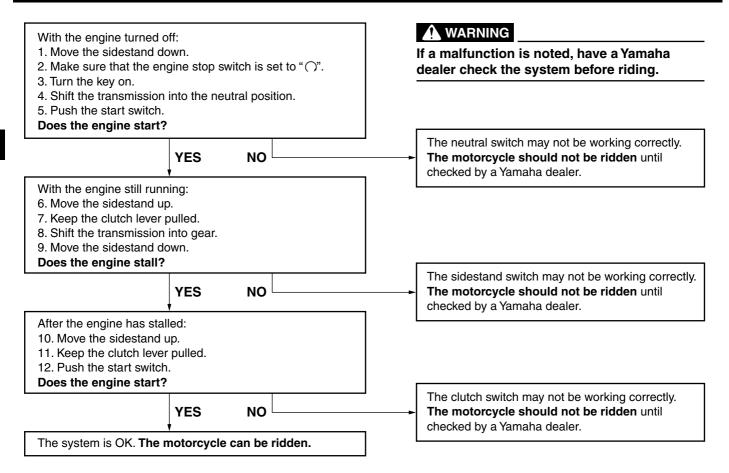
Ignition circuit cut-off system

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.

INSTRUMENT AND CONTROL FUNCTIONS



FOR YOUR SAFETY – PRE-OPERATION CHECKS

EAU15596

EWA11151

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.

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	CHECKS	PAGE
Fuel	 Check fuel level in fuel tank. Refuel if necessary. Check fuel line for leakage. 	3-13
Engine oil	 Check oil level in oil tank. If necessary, add recommended oil to specified level. Check vehicle for oil leakage. 	6-9
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 recommended brake fluid to specified level. Check hydraulic system for leakage. 	6-17, 6-18
Rear 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 recommended brake fluid to specified level. Check hydraulic system for leakage. 	6-17, 6-18

FOR YOUR SAFETY – PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Clutch	 Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system. Check hydraulic system for leakage. 	6-16
Throttle grip	 Make sure that operation is smooth. Check cable free play. If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing. 	6-13, 6-21
Control cables	Make sure that operation is smooth.Lubricate if necessary.	6-21
Drive chain	 Check chain slack. Adjust if necessary. Check chain condition. Lubricate if necessary. 	6-19, 6-20
Wheels and tires	 Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary. 	6-14, 6-16
Brake and shift pedals	Make sure that operation is smooth.Lubricate pedal pivoting points if necessary.	6-22
Brake and clutch levers	Make sure that operation is smooth.Lubricate lever pivoting points if necessary.	6-22
Sidestand	Make sure that operation is smooth.Lubricate pivot if necessary.	6-23
Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened.Tighten if necessary.	_
Instruments, lights, signals and switches	Check operation. Correct if necessary.	_
Sidestand switch	 Check operation of ignition circuit cut-off system. If system is not working correctly, have Yamaha dealer check vehicle. 	3-22

EAU15951

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.

TIP _

This model is equipped with:

- a lean angle sensor to stop the engine in case of a turnover. In this case, the multi-function display 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 30 minutes. In this case, the multi-function display indicates error code 70 and the engine trouble warning light "♣" comes on, but this is not a malfunction. Push the start switch to clear the error code and to restart the engine.

EAU46990

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 3-23 for more information.

 Turn the key to "ON" and make sure that the engine stop switch is set to "○".

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

- Fuel level warning light
- Engine trouble warning light
- Immobilizer system indicator light

ECA11831

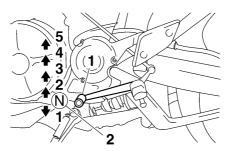
EAU36743

NOTICE

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

- 2. Shift the transmission into the neutral position. (See page 5-2.) 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 start switch. *NOTICE:* For maximum engine life, never accelerate hard when the engine is cold! [ECA11041]

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

EAU16671

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.

ECA10260

 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.

EAU16810

Tips for reducing fuel consumption

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

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

Engine break-in

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.

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.

EAU17083

0-1000 km (0-600 mi)

Avoid prolonged operation above 2800 r/min. *NOTICE:* After 1000 km (600 mi) of operation, the engine oil must be changed and the oil filter cartridge or element replaced. [ECA10302]

1000-1600 km (600-1000 mi)

Avoid prolonged operation above 3300 r/min.

EAU16841

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

ECA10310

NOTICE

- 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.

TIP

During and after the engine break-in period, the exhaust heat may cause discoloration of the exhaust pipe, but this is normal. 5

5-3

Parking

EAU17213

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

EWA10311

- 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.

EWA15121

EAU17241

EWA10321

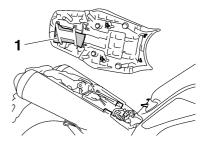
Periodic inspection, adjustment, and lubrication will keep your vehicle in the safest and most efficient condition possible. Safety is an obligation of the vehicle owner/operator. The most important points of vehicle inspection, adjustment, and lubrication are explained on the following pages.

The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions. However, depending on the weather, terrain, geographical location, and individual use, the maintenance intervals may need to be shortened.

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 1-1 for more information about carbon monoxide.

Owner's tool kit



EAU39691

6

1. Owner's tool kit

The owner's tool kit is located on the bottom of the seat. (See page 3-16.) 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.

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.

TIP_

- The annual checks must be performed every year, except if a kilometer-based maintenance, or for the UK, a mileage-based maintenance, is performed instead.
- From 50000 km (30000 mi), repeat the maintenance intervals starting from 10000 km (6000 mi).
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

Periodic maintenance chart for the emission control system

N			ITEM	CHECK OR MAINTENANCE JOB		ANNUAL				
	NC).			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	CHECK
	1	*	Fuel line	 Check fuel hoses for cracks or damage. 		\checkmark	\checkmark	\checkmark	\checkmark	
	2	*	Spark plugs	Check condition.Clean and regap.		\checkmark		\checkmark		
				Replace.			\checkmark			
;	3	*	Valves	Check valve clearance.Adjust.			\checkmark		\checkmark	
4	4	*	Fuel injection sys- tem	Adjust synchronization.		\checkmark			V	
4	5	*	Muffler and exhaust pipe	 Check the screw clamp(s) for looseness. 		\checkmark	\checkmark	\checkmark		

EAU46910

EAU46861

General maintenance and lubrication chart

EAU1770C

		ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL	
N	0.			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	CHECK	
1	*	Air filter element	Replace.					\checkmark		
2	*	Clutch	Check operation, fluid level and vehicle for fluid leakage.	\checkmark	\checkmark		\checkmark			
3	*	Front brake	Check operation, fluid level and vehicle for fluid leakage.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
			Replace brake pads.	Whenever worn to the limit						
4	*	Rear brake	Check operation, fluid level and vehicle for fluid leakage.	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	
			Replace brake pads.	Whenever worn to the limit						
5	*	Brake hoses	Check for cracks or damage.			\checkmark	\checkmark			
Э			Replace.	Every 4 years						
6	*	Wheels	Check runout and for damage.		\checkmark	\checkmark	\checkmark	\checkmark		
7	*	Tires	 Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary. 		V	\checkmark	V	V	\checkmark	
8	*	Wheel bearings	Check bearing for looseness or damage.		\checkmark	\checkmark	\checkmark			
9	*	Swingarm	Check operation and for exces- sive play.		\checkmark	\checkmark	\checkmark			

Γ		ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL	
N	0.			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	CHECK	
10		Drive chain	 Check chain slack, alignment and condition. Adjust and lubricate chain with a special O-ring chain lubricant thoroughly. 	Every 1000) km (600 mi)	and after was	hing the moto	rcycle or riding	g in the rain	
11	*	Steering beerings	 Check bearing play and steering for roughness. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
		Steering bearings	Lubricate with lithium-soap-based grease.	Every 20000 km (12000 mi)						
12	*	Chassis fasteners	 Make sure that all nuts, bolts and screws are properly tightened. 		\checkmark	\checkmark	\checkmark		\checkmark	
13		Brake lever pivot shaft	Lubricate with silicone grease.		\checkmark	\checkmark	\checkmark		\checkmark	
14		Brake pedal pivot shaft	 Lubricate with lithium-soap-based grease. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
15		Clutch lever pivot shaft	Lubricate with silicone grease.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
16		Shift pedal pivot shaft	 Lubricate with lithium-soap-based grease. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
17		Sidestand	Check operation.Lubricate.			\checkmark		\checkmark	\checkmark	
18	*	Sidestand switch	Check operation.	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	
19	*	Front fork	Check operation and for oil leak- age.		\checkmark	\checkmark	\checkmark	\checkmark		
20	*	Shock absorber as- sembly	 Check operation and shock ab- sorber for oil leakage. 		\checkmark	\checkmark				

Γ			CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL
N	Э.	ITEM		1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	CHECK
21	*	Rear suspension re- lay arm and con- necting arm pivoting points	Check operation.		\checkmark	\checkmark	\checkmark	\checkmark	
22		Engine oil	 Change. Check oil level and vehicle for oil leakage. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
23		Engine oil filter car- tridge	Replace.	\checkmark		\checkmark		\checkmark	
24	*	Front and rear brake switches	Check operation.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
25		Moving parts and cables	Lubricate.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
26	*	Throttle grip hous- ing and cable	 Check operation and free play. Adjust the throttle cable free play if necessary. Lubricate the throttle grip housing and cable. 		\checkmark	V	\checkmark	V	V
27	*	Lights, signals and switches	Check operation.Adjust headlight beam.		\checkmark		\checkmark	\checkmark	

EAU36771

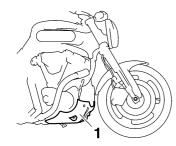
6

TIP _____

- Air filter
 - This model's air filter is equipped with a disposable oil-coated paper element, which must not be cleaned with compressed air to avoid damaging it.
 - The air filter element needs to be replaced more frequently when riding in unusually wet or dusty areas.

- Hydraulic brake and clutch service
 - Regularly check and, if necessary, correct the brake fluid and clutch fluid levels.
 - Every two years replace the internal components of the brake master cylinders and calipers as well as clutch master and release cylinders, and change the brake and clutch fluids.
 - Replace the brake and clutch hoses every four years and if cracked or damaged.

Removing and installing the cowling



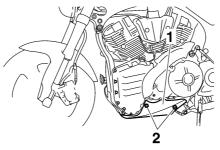
1. Cowling

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

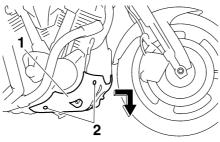
Cowling

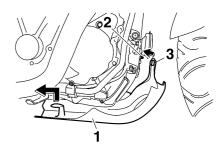
To remove the cowling

Remove the bolts, and then pull the cowling off as shown.



Cowling
 Bolt





- 1. Cowling
- 2. Projection
- 3. Grommet

TIP ___

Make sure that the grommet fits over the projection.

6

1 . Com

EAU36831

Cowling
 Bolt

To install the cowling

Place the cowling in the original position, and then install the bolts.

EAU19642

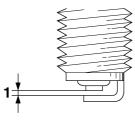
Checking the spark plugs

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/DPR7EA-9 DENSO/X22EPR-U9

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: 17.5 Nm (1.75 m·kgf, 12.7 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.

EAU36809

Engine oil and oil filter cartridge

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

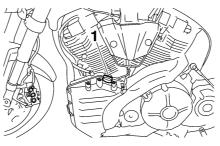
To check the engine oil level

- 1. Place the vehicle on a level surface and hold it in an upright position. A slight tilt to the side can result in a false reading.
- 2. Start the engine, warm it up until the engine oil has reached a normal temperature of 60 °C (140 °F), let it continue to idle for ten seconds, and then turn the engine off.

TIP

To achieve the proper engine oil temperature for an accurate oil level reading, the engine must have first completely cooled down, and then warmed up again for several minutes to normal operating temperature.

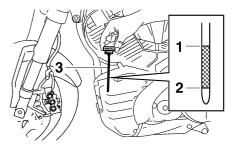
3. Wait a few minutes until the oil settles, remove the engine oil filler cap, wipe the engine oil dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level.



1. Engine oil filler cap

TIP

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



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

TIP_____

When adding oil, be careful not to overfill the engine oil tank; the oil level rises faster starting from the half level portion on the dipstick.

5. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

6

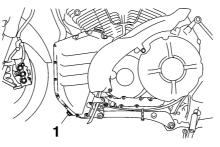
ECA10900

NOTICE

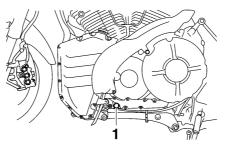
Make sure that the oil filler cap is securely tightened, otherwise oil may seep out when the engine is running.

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

- 1. Place the vehicle on a level surface.
- 2. Remove the cowling. (See page 6-7.)
- 3. Start the engine, warm it up for several minutes, and then turn it off.
- 4. Place an oil pan under the oil tank to collect the used oil.
- 5. Remove the engine oil filler cap and drain bolt to drain the oil from the oil tank.



- 1. Engine oil drain bolt (oil tank)
 - 6. Place an oil pan under the engine to collect the used oil.
 - 7. Remove the engine oil drain bolt to drain the oil from the crankcase.

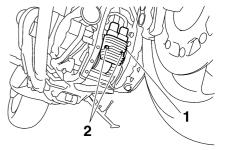


1. Engine oil drain bolt (crankcase)

TIP .

Skip steps 8–12 if the oil filter cartridge is not being replaced.

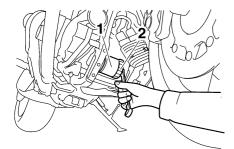
8. Remove the rectifier/regulator by removing the bolts.

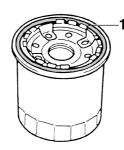


1. Rectifier/regulator

2. Bolt

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





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

TIP _____

An oil filter wrench is available at a Yamaha dealer.

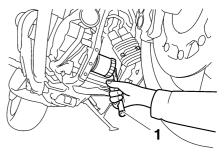
10. Apply a thin coat of clean engine oil to the O-ring of the new oil filter cartridge.

1. O-ring

TIP_

Make sure that the O-ring is properly seated.

11. Install the new oil filter cartridge with an oil filter wrench, 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)

12. Install the rectifier/regulator by installing the bolts, and then tighten them to the specified torque.

Tightening torque:

Rectifier/regulator bolt: 7 Nm (0.7 m·kgf, 5.1 ft·lbf)

13. Install the engine oil drain bolts, and then tighten them to the specified torques.

Tightening torques:

Engine oil drain bolt (crankcase): 43 Nm (4.3 m·kgf, 31 ft·lbf) Engine oil drain bolt (oil tank): 35 Nm (3.5 m·kgf, 25 ft·lbf)

- Pour only 2.5 L (2.6 US qt, 2.2 Imp.qt) of the specified amount of recommended engine oil through the filler hole, insert the dipstick, and then tighten the oil filler cap.
- 15. Start the engine, rev it several times, and then turn it off.
- 16. Remove the engine oil filler cap, and then gradually fill the oil tank with the remaining oil quantity while regularly checking the oil level on the dipstick.

Recommended engine oil: See page 8-1. Oil quantity: Without oil filter cartridge rei

Without oil filter cartridge replacement:

3.70 L (3.91 US qt, 3.26 lmp.qt) With oil filter cartridge replacement: 4.10 L (4.33 US qt, 3.61 lmp.qt)

TIP_

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

ECA15080

20. Install the cowling.

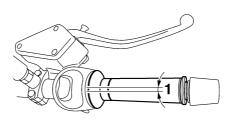
NOTICE

- 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 oil tank.
- 17. Install the engine oil filler cap.
- 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.
- 19. Turn the engine off, and then check the oil level and correct it if necessary.

6

EAU36762

Checking the throttle cable free play



Valve clearance

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

The air filter element must be replaced at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer replace the air filter element.

Air filter element

1. Throttle cable free play

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

6

EAU21401

EAU21772

Tires

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

Tire air pressure

WARNING

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

EWA10501

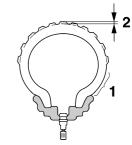
Operation of this vehicle with improper tire pressure may cause severe injury or death from loss of control.

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

```
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)
     Rear:
        290 kPa (2.90 kgf/cm<sup>2</sup>, 42 psi)
  90-196 kg (198-432 lb):
     Front:
        250 kPa (2.50 kgf/cm<sup>2</sup>, 36 psi)
     Rear:
        290 kPa (2.90 kgf/cm<sup>2</sup>, 42 psi)
  High-speed riding:
     Front<sup>.</sup>
        250 kPa (2.50 kgf/cm<sup>2</sup>, 36 psi)
     Rear:
        290 kPa (2.90 kgf/cm<sup>2</sup>, 42 psi)
Maximum load*:
  196 kg (432 lb)
 * Total weight of rider, passenger, car-
  go and accessories
```


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

Tire inspection



1. Tire sidewall

2. Tire tread depth

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

Minimum tire tread depth (front and rear): 1.6 mm (0.06 in)

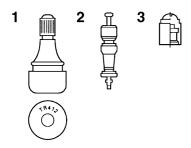
TIP

EWA10511

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

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

Tire information



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

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

EWA10470

- 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: EWA10481

120/70 ZR17 M/C (58W) Manufacturer/model: PIRELLI/DIABLO ROSSO Rear tire: Size: 190/50 ZR17 M/C (73W) Manufacturer/model: PIRELLI/DIABLO ROSSO

FRONT and REAR:

Tire air valve: TR412 Valve core: #9100 (original)

EWA10600

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

- The wheel rims should be checked for cracks, bends or warpage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a shortened tire life.
- Ride at moderate speeds after changing a tire since the tire surface must first be "broken in" for it to develop its optimal characteristics.

EAU21960

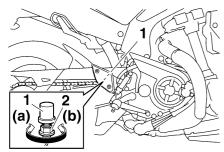
Clutch lever

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 hydraulic system for leakage before each ride. If the clutch lever free play does become excessive, and shifting becomes rough or clutch slippage occurs, causing poor acceleration, there may be air in the clutch system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle.

EAU42850

EAU43062

Adjusting the rear brake light switch



1. Rear brake light switch

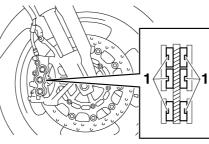
2. Rear brake light switch adjusting nut

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

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

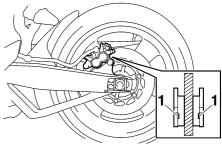


1. Brake pad wear indicator groove

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

Each front brake pad is provided with one or two wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that a wear indicator groove almost appears, have a Yamaha dealer replace the brake pads as a set.

Rear brake pads



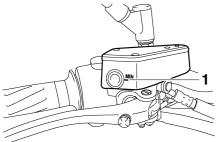
1. Brake pad wear indicator groove

Each rear brake pad is provided with wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that a wear indicator groove almost appears, have a Yamaha dealer replace the brake pads as a set.

EAU46291

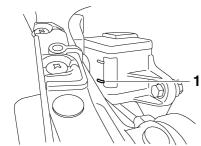
Checking the brake fluid level

Front brake



1. Minimum level mark

Rear brake



1. Minimum level mark

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

TIP_

The rear brake fluid reservoir is located under the seat. (See page 3-16.)

Observe these precautions:

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

Recommended brake fluid: DOT 4

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

- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause.

6

EAU22751

Changing the brake and

Have a Yamaha dealer change the brake and clutch fluids at the intervals

specified in the TIP after the periodic

maintenance and lubrication chart. In

addition, have the oil seals of the brake

and clutch master cylinders and cali-

pers as well as the brake and clutch

hoses replaced at the intervals listed

below or whenever they are damaged

Oil seals: Replace every two

Brake and clutch hoses: Replace

clutch fluids

or leaking.

vears.

every four years.

Drive chain slack

The drive chain slack should be checked before each ride and adjusted if necessary.

EAU22773

To check the drive chain slack

1. Place the motorcycle on the sidestand.

TIP_

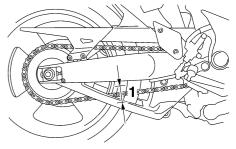
When checking and adjusting the drive chain slack, there should be no weight on the motorcycle.

- 2. Shift the transmission into the neutral position.
- 3. Move the rear wheel by pushing the motorcycle to locate the tightest portion of the drive chain, and then measure the drive chain slack as shown.

Drive chain slack:

40.0-50.0 mm (1.57-1.97 in)

EAU22760

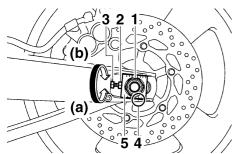


- 1. Drive chain slack
- 4. If the drive chain slack is incorrect, adjust it as follows.

EAU34314

To adjust the drive chain slack

1. Loosen the axle nut and the locknut on each side of the swingarm.



- 1. Axle nut
- 2. Drive chain slack adjusting bolt
- 3. Locknut

6

- 4. Alignment marks
- 5. Chain puller
- To tighten the drive chain, turn the drive chain slack adjusting bolt on each side of the swingarm in direction (a). To loosen the drive chain, turn the adjusting bolt on each side of the swingarm in direction (b), and then push the rear wheel forward. *NOTICE:* Improper drive chain slack will overload the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage.

To prevent this from occurring, keep the drive chain slack within the specified limits. [ECA10571]

TIP.

Using the alignment marks on each side of the swingarm, make sure that both chain pullers are in the same position for proper wheel alignment.

3. Tighten the axle nut, then the locknuts to their specified torques.

Tightening torques:

Axle nut: 150 Nm (15.0 m·kgf, 110 ft·lbf) Locknut: 16 Nm (1.6 m·kgf, 11 ft·lbf)

Cleaning and lubricating the drive chain

The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows.

ECA10581

NOTICE

The drive chain must be lubricated after washing the motorcycle and riding in the rain.

- 1. Clean the drive chain with kerosene and a small soft brush. *NOTICE:* To prevent damaging the O-rings, do not clean the drive chain with steam cleaners, high-pressure washers or inappropriate solvents. [EGA11121]
- 2. Wipe the drive chain dry.
- 3. Thoroughly lubricate the drive chain with a special O-ring chain lubricant. *NOTICE:* Do not use engine oil or any other lubricants for the drive chain, as they

may contain substances that could damage the O-rings.

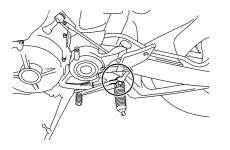
Checking and lubricating the cables

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 sheath may interfere with proper cable operation and will cause the inner cable to rust. Replace a damaged cable as soon as possible to prevent unsafe conditions. [EWA10721]

Recommended lubricant: Engine oil Checking and lubricating the throttle grip and cable

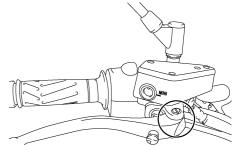
The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated at the intervals specified in the periodic maintenance chart.

Checking and lubricating the brake and shift pedals

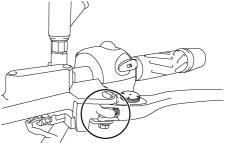


The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary. Recommended lubricant: Lithium-soap-based grease Checking and lubricating the brake and clutch levers





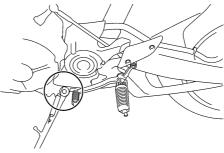
Clutch lever



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

Recommended lubricant: Silicone grease

Checking and lubricating the sidestand



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

EWA10731

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

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.

EAU23272

6

To check the condition

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

To check the operation

- 1. 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]
- 2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

chart.

Checking the steering

information.)

Worn or loose steering bearings may

cause danger. Therefore, the operation

of the steering must be checked as fol-

lows at the intervals specified in the pe-

riodic maintenance and lubrication

1. Place a stand under the engine to

raise the front wheel off the ground. (See page 6-32 for more

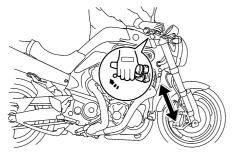
avoid injury, securely support

the vehicle so there is no danger

fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha

of it falling over. [EWA10751] 2. Hold the lower ends of the front

WARNING!



ECA10590

NOTICE

If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it. EAU23283

То

Checking the wheel bearings

EAU23290

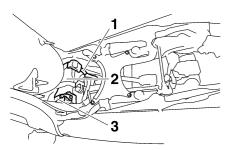
The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

dealer check or repair the steering.

6

Battery

EAU23444



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

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.

EWA10760

 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.

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. If you do not have access to a constant-voltage battery charger, have a Yamaha dealer charge your 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]

- 2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
- 3. Fully charge the battery before installation.

ECA16520

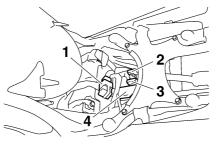
4. After installation, make sure that the battery leads are properly connected to the battery terminals.

NOTICE

Always keep the battery charged. Storing a discharged battery can cause permanent battery damage. EAU47180

Replacing the fuses

The main fuse, the fuel injection system fuse, and the fuse box, which contains the fuses for the individual circuits, are located under the seat. (See page 3-16.)



- 1. Main fuse
- 2. Fuel injection system fuse
- 3. Fuel injection system spare fuse
- 4. Fuse box

- 1. Fuse box
- 2. Headlight fuse
- 3. Signaling system fuse
- 4. Ignition fuse
- 5. Muffler cover fan fuse
- 6. Backup fuse (for odometer, clock and immobilizer system)
- 7. Auto-decompression fuse
- 8. ECU fuse
- 9. Parking lighting fuse
- 10.Spare 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

EAU36822

2

avoid causing extensive damage to the electrical system and possibly a fire. [EWA15131]

Specified fuses:

Main fuse: 50.0 A Headlight fuse: 15.0 A Signaling system fuse: 10.0 A Ignition fuse: 25.0 A Parking lighting fuse: 10.0 A ECU fuse: 10.0 A Fuel injection system fuse: 15.0 A Auto-decompression fuse: 15.0 A Backup fuse: 10.0 A Muffler cover fan fuse: 15.0 A

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

Replacing a headlight bulb

1. Low beam headlight bulb

2. High beam headlight bulb

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

ECA10650

NOTICE

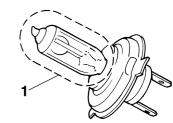
Take care not to damage the following parts:

Headlight bulb

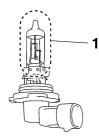
Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

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

Do not use a headlight bulb of a wattage higher than specified.



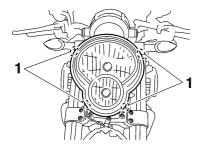
1. Do not touch the glass part of the bulb.



1. Do not touch the glass part of the bulb.

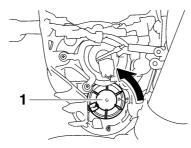
To replace a headlight bulb

1. Remove the headlight unit by removing the bolts on each side.

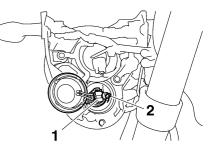


To replace the high beam headlight bulb

a. Remove the headlight bulb holder cover by turning it counterclockwise.



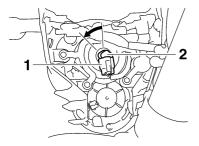
- 1. Headlight bulb holder cover
 - b. Disconnect the headlight coupler, and then unhook the headlight bulb holder.



- 1. Headlight coupler
- 2. Headlight bulb holder
 - c. Remove the burnt-out bulb.
 - d. Place a new headlight bulb into position, and then secure it with the bulb holder.
 - e. Connect the coupler, and then install the headlight bulb holder cover by turning it clockwise.

To replace the low beam headlight bulb

a. Disconnect the headlight coupler, and then remove the burnt-out bulb by turning it counterclockwise.



1. Headlight coupler

2. Headlight bulb

- b. Install the bulb by turning it clockwise.
- c. Connect the headlight coupler.
- 2. Install the headlight unit by installing the bolts.
- 3. Have a Yamaha dealer adjust the headlight beam if necessary.

Tail/brake light

This model is equipped with an LED-type tail/brake light.

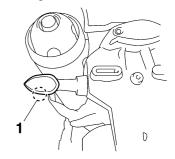
If the tail/brake light does not come on, have a Yamaha dealer check it.

EAU24181

EAU24204

Replacing a turn signal light bulb

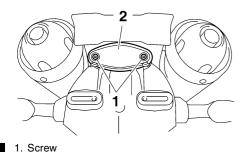
1. Remove the turn signal light lens by removing the screw.



- 1. Screw
 - 2. Remove the burnt-out bulb by pushing it in and turning it counter-clockwise.
 - 3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
 - 4. Install the lens by installing the screw. *NOTICE:* Do not overtighten the screw, otherwise the lens may break. [ECA11191]

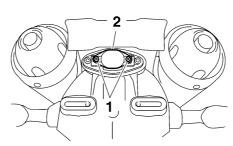
Replacing the license plate light bulb

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

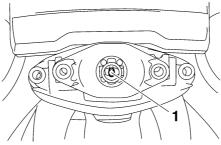


2. Remove the license plate light lens by removing the screws.

2. License plate light cover



- 1. Screw
- 2. License plate light lens
- 3. Remove the burnt-out bulb by pulling it out from the socket.



- 1. License plate light bulb
- 4. Insert a new bulb into the socket.
- 5. Install the license plate light lens by installing the screws.

6. Install the license plate light cover by installing the screws.

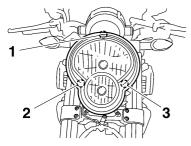
6

6-30

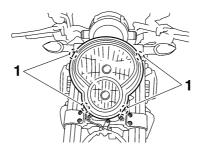
EAU36842

Replacing an auxiliary light bulb

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



- 1. Auxiliary light bulb A
- 2. Auxiliary light bulb B
- 3. Auxiliary light bulb C
 - 1. Remove the headlight unit by removing the bolts on each side.

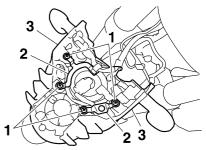


1. Bolt

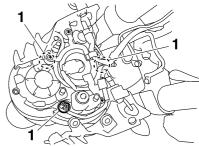
TIP_

Skip steps 2 and 7 if the auxiliary light bulb A is being replaced.

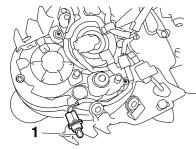
2. To replace auxiliary light bulb B or C, remove the corresponding headlight unit side cover bracket and the headlight unit side cover by removing the screws.



- 1. Screw
- 2. Headlight unit side cover bracket
- 3. Headlight unit side cover
 - 3. Remove the socket (together with the bulb) by turning it counterclockwise.



- 1. Auxiliary light bulb socket
- 4. Remove the burnt-out bulb by pulling it out.



1. Auxiliary light bulb

- 5. Insert a new bulb into the socket.
- Install the socket (together with the bulb) by turning it clockwise.
- Install the headlight unit side cover and the headlight unit side cover bracket by installing the screws.
- Install the headlight unit by installing the bolts.

Supporting the motorcycle

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

To service the front wheel

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

To service the rear wheel

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

Troubleshooting

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

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

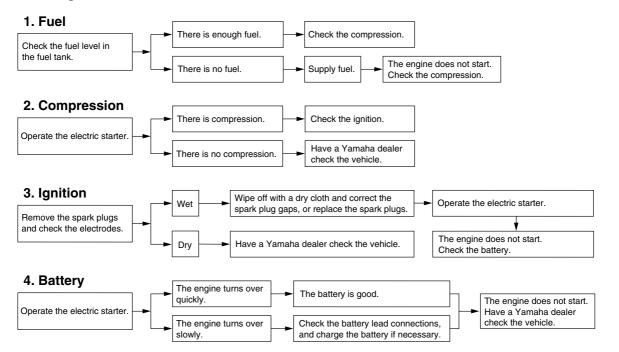
Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

EWA15141

EAU25851

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 chart



EAU42601

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

EAU36904

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

Cleaning

ECA15092

7

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 or the mufflers. 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), storage compartments, 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 com-

pounds 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]
- 2. After drying the motorcycle, apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces (except the titanium mufflers) to prevent corrosion.

Cleaning the titanium mufflers

This model is equipped with titanium mufflers, which require the following special care.

• Use only a soft, clean cloth or sponge with mild detergent and water to clean the titanium mufflers. However, if the mufflers cannot be thoroughly cleaned with mild detergent, alkaline products and a soft brush may be used.

- Never use compounds or other special treatments to clean the titanium mufflers, as they will remove the finish on the outer surface of the mufflers.
- Even the smallest amounts of oil, such as from oily towels or fingerprints, will leave stains on the titanium mufflers, which can be removed with a mild detergent.
- Note that the thermally induced discoloring of the portion of the exhaust pipe leading into the titanium mufflers is normal and cannot be removed.

After cleaning

- 1. Dry the motorcycle with a chamois or an absorbing cloth.
- 2. Immediately dry the drive chain and lubricate it to prevent it from rusting.
- 3. Use a chrome polish to shine chrome, aluminum and stainless-steel parts.

- 4. To prevent corrosion, it is recommended to apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces.
- 5. Use spray oil as a universal cleaner to remove any remaining dirt.
- 6. Touch up minor paint damage caused by stones, etc.
- 7. Wax all painted surfaces.
- 8. Let the motorcycle dry completely before storing or covering it.

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.

NOTICE

• Apply spray oil and wax sparingly and make sure to wipe off any excess.

ECA10800

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- 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.

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Storage

Short-term

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

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

- 3. Perform the following steps to protect the cylinders, piston rings, etc. from corrosion.
 - a. Remove the spark plug caps and spark plugs.
 - b. Pour a teaspoonful of engine oil into each spark plug bore.
 - c. Install the spark plug caps onto the spark plugs, and then place the spark plugs on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
 - d. Turn the engine over several times with the starter. (This will coat the cylinder walls with oil.) WARNING! To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.
 - e. Remove the spark plug caps from the spark plugs, and then install the spark plugs and the spark plug caps.

- 4. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the side-stand/centerstand.
- 5. Check and, if necessary, correct the tire air pressure, and then lift the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
- 6. Cover the muffler outlets with plastic bags to prevent moisture from entering them.
- 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 6-25.

TIP.

Make any necessary repairs before storing the motorcycle.

SPECIFICATIONS

Dimensions:

Overall length: 2185 mm (86.0 in) Overall width: 800 mm (31.5 in) Overall height: 1105 mm (43.5 in) Seat height: 825 mm (32.5 in) Wheelbase: 1525 mm (60.0 in) Ground clearance: 145 mm (5.71 in) Minimum turning radius: 3200 mm (126.0 in) Weight:

With oil and fuel: 265.0 kg (584 lb)

Engine:

Engine type: Air cooled 4-stroke, OHV Cylinder arrangement: V-type 2-cylinder Displacement: 1670 cm³ Bore × stroke: $97.0 \times 113.0 \text{ mm} (3.82 \times 4.45 \text{ in})$ Compression ratio: 8.40:1 Starting system: Electric starter Lubrication system: Dry sump

Engine oil:

Recommended brand:

```
YAMALUBE
Type:
  SAE 10W-30, SAE 10W-40, SAE 10W-50,
  SAE 15W-40, SAE 20W-40 or SAE 20W-
  50
```

-20	-10	0 ! \E 1	10 ! 0₩-:	- I	30	40	50 °C
	•	S	AE 1	0W-4	40	•	
		5	SAE	10W	-50		
			SAE	15V	V-40		
			S	AĘ 2	0Ŵ-4	40	
			•	SAE	20W	-50	

Recommended engine oil grade: API service SG type or higher, JASO standard MA Engine oil quantity: Without oil filter cartridge replacement: 3.70 L (3.91 US qt, 3.26 Imp.qt) With oil filter cartridge replacement: 4.10 L (4.33 US gt, 3.61 Imp.gt)

Air filter:

Air filter element: Oil-coated paper element Fuel:

Recommended fuel: Regular unleaded gasoline only Fuel tank capacity: 15.0 L (3.96 US gal, 3.30 Imp.gal)

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Fuel reserve amount: 3.0 L (0.79 US gal, 0.66 Imp.gal) Fuel injection: Throttle body: ID mark: 5YU1 02 Spark plug (s): Manufacturer/model: NGK/DPR7EA-9 Manufacturer/model: DENSO/X22EPR-U9 Spark plug gap: 0.8-0.9 mm (0.031-0.035 in) Clutch: Clutch type: Wet, multiple-disc Transmission: Primary reduction system: Spur gear Primary reduction ratio: 71/48 (1.479) Secondary reduction system: Chain drive Secondary reduction ratio: 39/17 (2.294) Transmission type: Constant mesh 5-speed Operation: Left foot operation Gear ratio: 1st 38/16 (2.375) 2nd: 30/19 (1.579)

SPECIFICATIONS

3rd:

29/25 (1.160) 4th: 24/25 (0.960) 5th: 24/30 (0.800) Chassis: Frame type: Double cradle Caster angle: 25.00 ° Trail: 103.0 mm (4.06 in) Front tire: Type: Tubeless Size: 120/70 ZR17 M/C (58W) Manufacturer/model: PIRELLI/DIABLO ROSSO Rear tire: Type: Tubeless

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Size: 190/50 ZR17 M/C (73W) Manufacturer/model: PIRELLI/DIABLO ROSSO

Loading:

Maximum load: 196 kg (432 lb) (Total weight of rider, passenger, cargo and accessories)

Tire air pressure (measured on cold tires):

Loading condition: 0-90 kg (0-198 lb) Front: 250 kPa (2.50 kgf/cm², 36 psi) Rear: 290 kPa (2.90 kgf/cm², 42 psi) Loading condition: 90-196 kg (198-432 lb) Front: 250 kPa (2.50 kgf/cm², 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/cm², 42 psi) Front wheel: Wheel type: Cast wheel Rim size: 17M/C x MT3.50 Rear wheel: Wheel type: Cast wheel Rim size: 17M/C x MT6.00 Front brake: Type: Dual disc brake Operation: Right hand operation

Recommended fluid: DOT 4 **Rear brake:** Type: Single disc brake Operation: Right foot operation Recommended fluid: DOT 4 Front suspension: Type: Telescopic fork Spring/shock absorber type: Coil spring/oil damper Wheel travel: 120.0 mm (4.72 in) **Rear suspension:** Type: Swingarm (link suspension) Spring/shock absorber type: Coil spring/gas-oil damper Wheel travel: 117.0 mm (4.61 in) Electrical system: Ignition system: TCI (digital) Charging system: AC magneto **Battery:** Model: GT14B-4 Voltage, capacity: 12 V, 12.0 Ah

SPECIFICATIONS

Headlight:

Bulb type: Halogen bulb Bulb voltage, wattage × quantity: Low beam headlight:

12 V, 51.0 W × 1 High beam headlight: 12 V, 55.0 W × 1 Tail/brake light: LED Front turn signal light: 12 V, 10.0 W × 2 Rear turn signal light: 12 V, 10.0 W × 2 Auxiliary light: 12 V. 5.0 W × 3 License plate light: 12 V, 5.0 W × 1 Meter lighting: LED Neutral indicator light: LED High beam indicator light: LED Turn signal indicator light: LED Fuel level warning light: I FD Engine trouble warning light: LED Immobilizer system indicator light: LED

Fuses:

Main fuse: 50.0 A Headlight fuse: 15.0 A Signaling system fuse: 10.0 A lanition fuse: 25.0 A Parking lighting fuse: 10.0 A Muffler cover fan fuse: 15.0 A FCU fuse: 10.0 A Fuel injection system fuse: 15.0 A Backup fuse: 10.0 A Auto-decompression fuse: 15.0 A

CONSUMER INFORMATION

EAU26352

Identification numbers

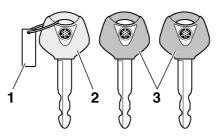
Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

KEY IDENTIFICATION NUMBER:

VEHICLE IDENTIFICATION NUMBER:

MODEL LABEL INFORMATION:





- 1. Key identification number
- 2. Code re-registering key (red bow)

3. Standard keys (black bow)

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

Vehicle identification number

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1. Vehicle identification number

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

TIP_

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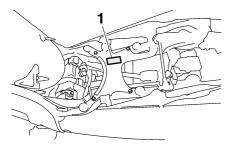
The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your area.

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CONSUMER INFORMATION

EAU26480

Model label



1. Model label

The model label is affixed to the frame under the seat. (See page 3-16.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

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