



 Read this manual carefully before operating this vehicle.

OWNER'S MANUAL

WR
250X
WR25XZ(C)

LIT-11626-23-57

32C-28199-15

EAU10042

WARNING

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

YAMAHA

LIT-CALIF-65-01

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

Congratulations on your purchase of the Yamaha WR25XZ(C). This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

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

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

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




WARNING

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

IMPORTANT MANUAL INFORMATION

EAU10132

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.
	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.

IMPORTANT MANUAL INFORMATION

EAU10193

**WR25XZ(C)
OWNER'S MANUAL
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YAMAHA MOTOR

CORPORATION, U.S.A.

STREET AND ENDURO

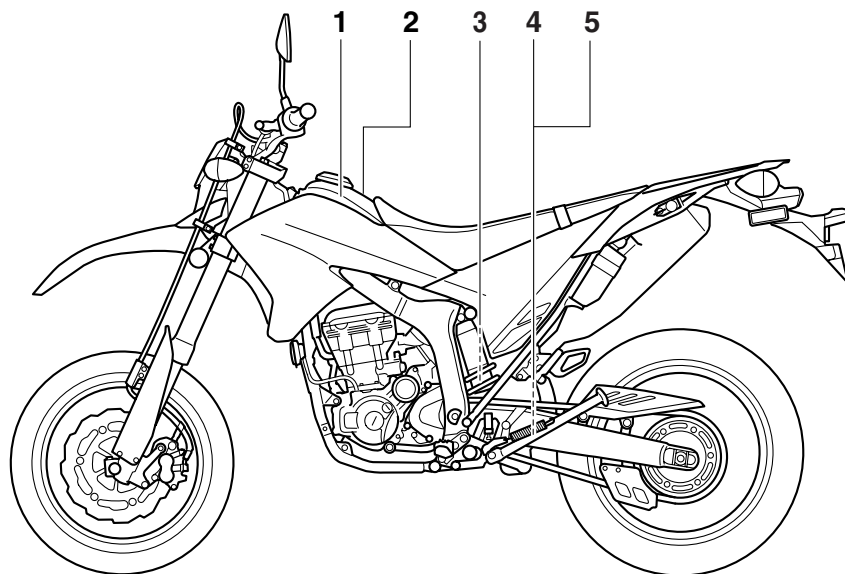
MOTORCYCLE LIMITED

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LOCATION OF IMPORTANT LABELS

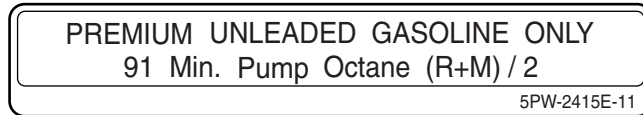
EAU10384

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



LOCATION OF IMPORTANT LABELS

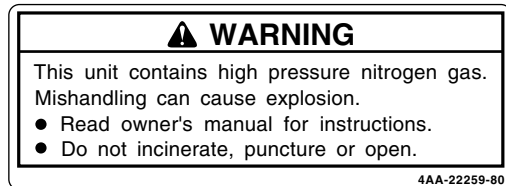
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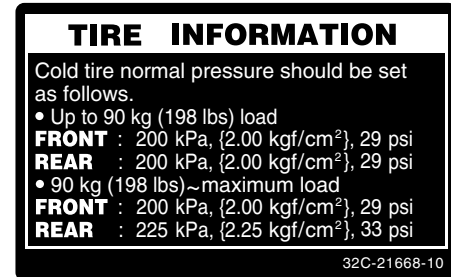
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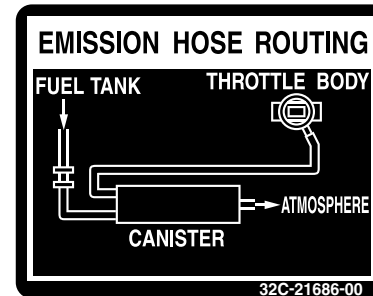
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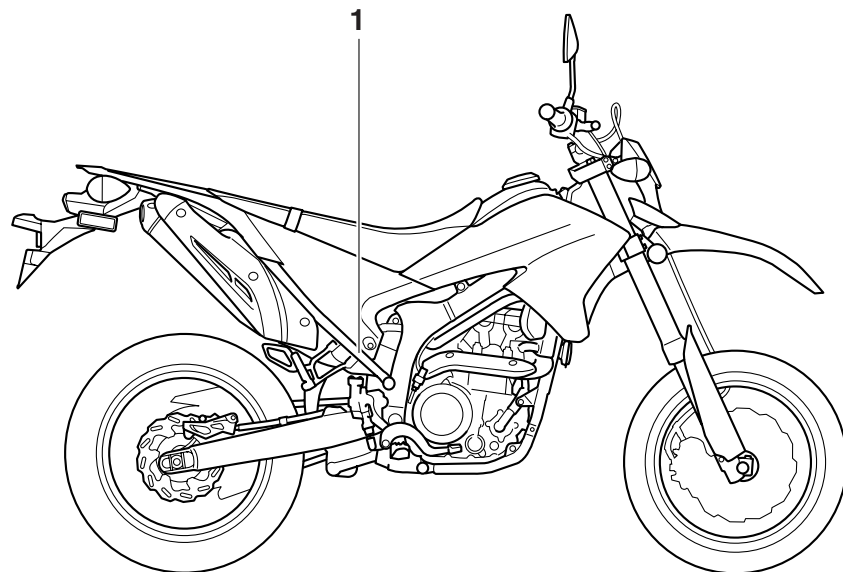


5 (California only)



LOCATION OF IMPORTANT LABELS

1



LOCATION OF IMPORTANT LABELS

1

1



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 5-1 for a list of pre-operation checks.

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

Therefore:

- Wear a brightly colored jacket.
- Use extra caution when you are approaching and passing through intersections, since intersections are the most likely places for motorcycle accidents to occur.

- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
- Make sure that you are qualified and that you only lend your motorcycle to other qualified operators.
- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with the motorcycle and all of its controls.
- Many accidents have been caused by error of the motorcycle operator. A typical error made by the operator is veering wide on a turn



due to excessive speed or under-cornering (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.

Protective apparel

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

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

Avoid Carbon Monoxide Poisoning

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

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

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

SAFETY INFORMATION

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

2

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:

WR25XZ 185 kg (408 lb)
WR25XZC 184 kg (406 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, 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.

Aftermarket Parts, Accessories, and Modifications

While you may find aftermarket products similar in design and quality to genuine Yamaha accessories, recog-



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

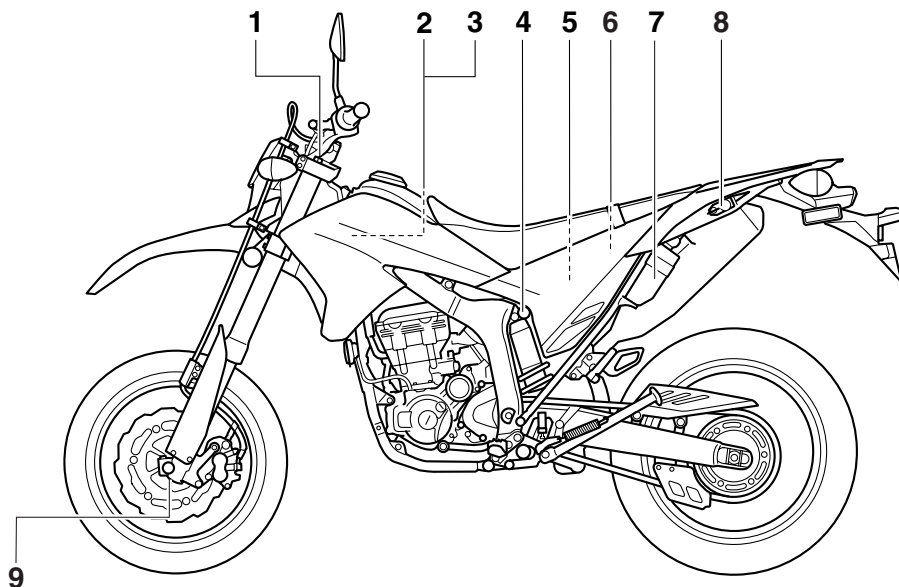
Aftermarket Tires and Rims

The tires and rims that came with your motorcycle were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort. Other tires, rims, sizes, and combinations may not be appropriate. Refer to page 7-22 for tire specifications and more information on replacing your tires.

DESCRIPTION

EAU10410

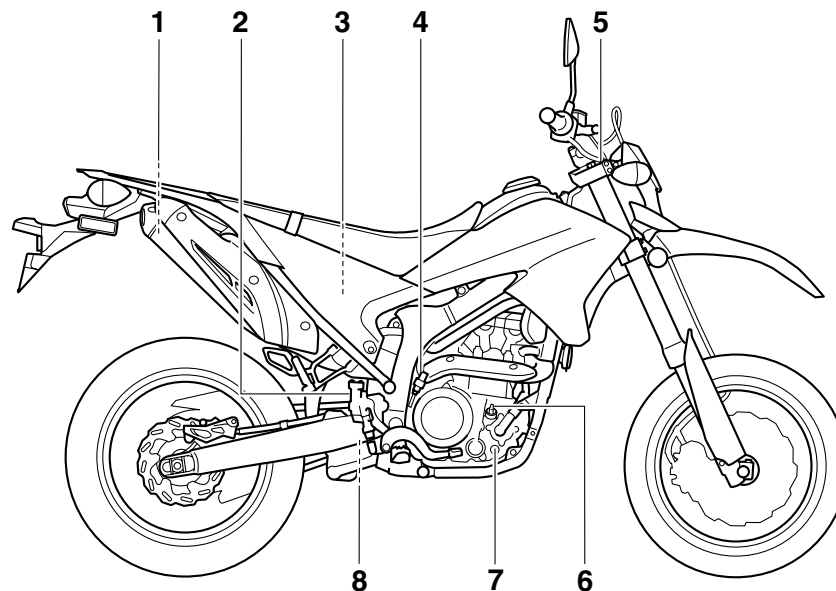
Left view



1. Front fork rebound damping force adjusting screw (page 4-14)
2. Fuse box (page 7-35)
3. Coolant reservoir (page 7-15)
4. Shock absorber assembly compression damping force adjusting screw (page 4-17)
5. Battery (page 7-34)
6. Main fuse (page 7-35)
7. Owner's tool kit (page 7-2)
8. Helmet holder (page 4-14)

9. Front fork compression damping force adjusting screw (page 4-14)

Right view

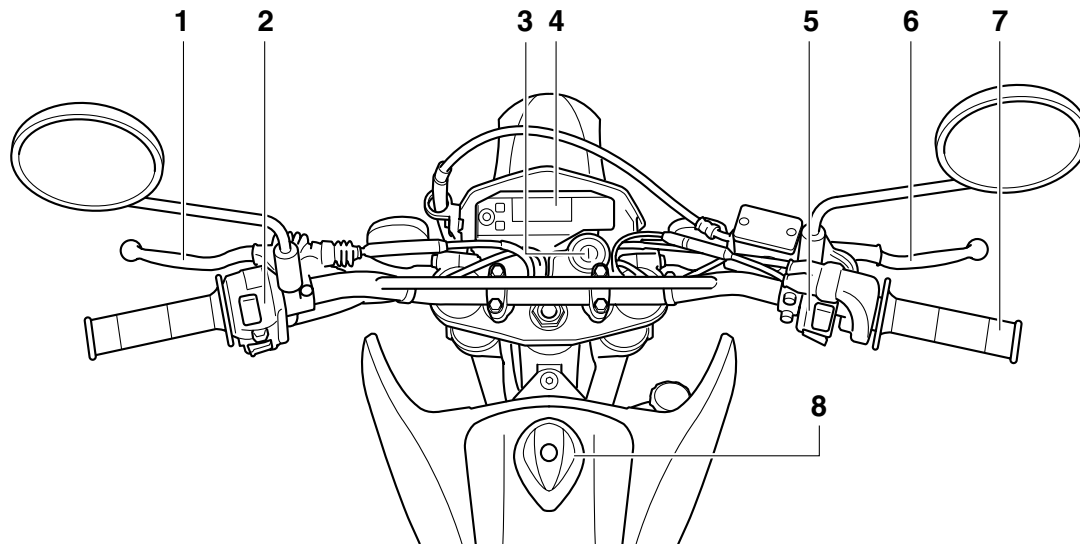


1. Spark arrester (page 7-20)
2. Rear brake fluid reservoir (page 7-27)
3. Air filter element (page 7-18)
4. Rear brake light switch (page 7-26)
5. Bleed screw (page 4-16)
6. Engine oil filler cap (page 7-13)
7. Engine oil level check window (page 7-13)
8. Shock absorber assembly rebound damping force adjusting knob (page 4-17)

DESCRIPTION

EAU10430

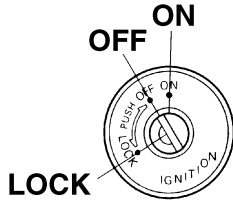
Controls and instruments



1. Clutch lever (page 4-9)
2. Left handlebar switches (page 4-8)
3. Main switch/steering lock (page 4-1)
4. Multi-function display (page 4-3)
5. Right handlebar switches (page 4-8)
6. Brake lever (page 4-10)
7. Throttle grip (page 7-21)
8. Fuel tank cap (page 4-11)

Main switch/steering lock

EAU10460



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

ON

EAU10540

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

TIP

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.

OFF

EAU10661

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



EWA10061

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

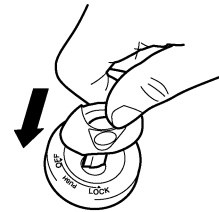
LOCK

EAU10683

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

To lock the steering

1



2

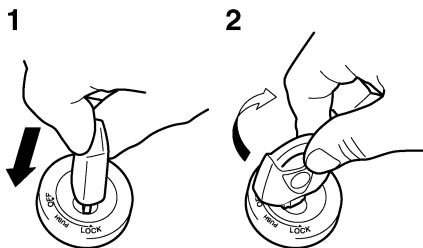


1. Push.
2. Turn.

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

INSTRUMENT AND CONTROL FUNCTIONS

To unlock the steering

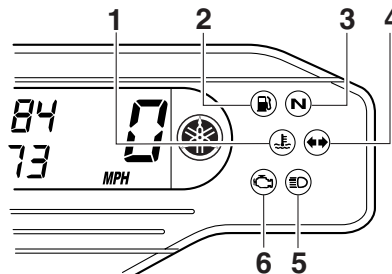


1. Push.
2. Turn.

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

Indicator and warning lights

EAU11004



1. Coolant temperature warning light “”
2. Fuel level warning light “”
3. Neutral indicator light “N”
4. Turn signal indicator light “”
5. High beam indicator light “”
6. Engine trouble warning light “”

Turn signal indicator light “”

EAU11020

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

Neutral indicator light “N”

EAU11060

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

High beam indicator light “”

EAU11080

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

Fuel level warning light “”

EAU11352

This warning light comes on when the fuel level drops below approximately 2.1 L (0.55 US gal, 0.46 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.

Coolant temperature warning light “”

EAU11444

This warning light comes on if the engine overheats. If this occurs, stop the engine immediately and allow the engine to cool.

INSTRUMENT AND CONTROL FUNCTIONS

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.

ECA10021

NOTICE

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

TIP

- For radiator-fan-equipped vehicles, the radiator fan(s) automatically switch on or off according to the coolant temperature in the radiator.
- If the engine overheats, see page 7-44 for further instructions.

Engine trouble warning light “”

EAU11534

This warning light comes on or flashes if a problem is detected in the electrical circuit monitoring the engine. If this occurs, have a Yamaha dealer check the

self-diagnosis system. (See page 4-8 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.

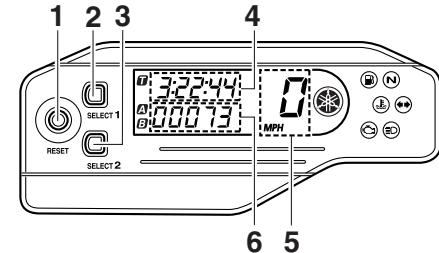
Multi-function display

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EWA12312

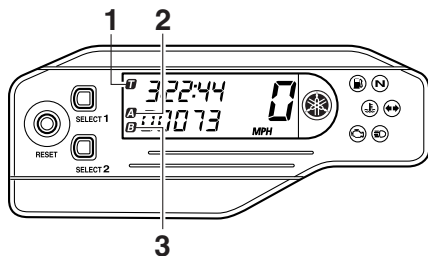
WARNING

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.



1. “RESET” button
2. “SELECT 1” button
3. “SELECT 2” button
4. Clock/stopwatch
5. Speedometer
6. Odometer/tripmeter/fuel reserve tripmeter

INSTRUMENT AND CONTROL FUNCTIONS



- 4
1. Stopwatch indicator “**T**”
 2. Tripmeter A indicator “**A**”/Distance-compensation tripmeter “**A**”
 3. Tripmeter B indicator “**B**”

TIP

- The multi-function display can be set to the basic mode or the measurement mode.
- Tripmeter A will automatically reset to zero when changing from the basic mode to the measurement mode or vice versa.

Basic mode:

- 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)
- a clock
- a self-diagnosis device

Measurement mode:

- a speedometer
- a distance-compensation tripmeter (which shows the accumulated distance traveled since set to zero and which can be calibrated to provide a more accurate tripmeter reading)
- a stopwatch (which shows the time that has been accumulated since the start of stopwatch measurement)
- a self-diagnosis device

TIP

- Be sure to turn the key to “ON” before using the “SELECT 1”, “SELECT 2” and “RESET” buttons.

- When the key is turned to “ON”, all of the display segments of the multi-function display will appear and then disappear, in order to test the electrical circuit.
- To switch the speedometer and odometer/tripmeter displays between kilometers and miles, press the “SELECT 2” button until the display changes after the key is turned to “ON”.

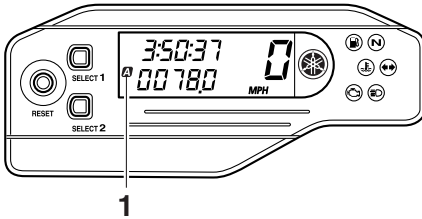
Basic mode

Odometer and tripmeter modes

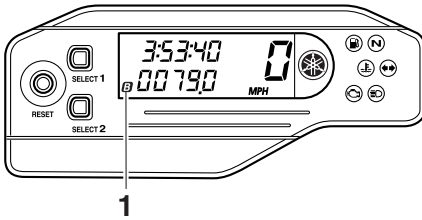
Push the “SELECT 2” button to switch the display between the odometer mode and the tripmeter modes A and B in the following order:

odometer → tripmeter A → tripmeter B → odometer

INSTRUMENT AND CONTROL FUNCTIONS



1. Tripmeter A indicator “A”



1. Tripmeter B indicator “B”

TIP

Indicator “A” comes on when tripmeter A is selected, and indicator “B” comes on when tripmeter B is selected.

If the fuel level warning light comes on (see page 4-2), the display will automatically change to the fuel reserve tripmeter mode “F” and start counting the distance traveled from that point. In this case, push the “SELECT 2” button to switch the display between the various tripmeter and odometer modes in the following order:

fuel reserve tripmeter “F” → odometer → tripmeter A → tripmeter B → fuel reserve tripmeter “F”

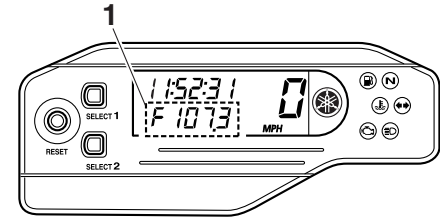
TIP

The fuel level warning light may not function accurately while riding off road as the fuel level reading changes due to the movement and inclination of the vehicle.

If the fuel level warning light comes on while riding in the measurement mode, change to the basic mode and push the “SELECT 2” button to display the fuel reserve tripmeter.

TIP

To change from the measurement mode to the basic mode, the stopwatch and the distance-compensation tripmeter must be stopped.



1. Fuel reserve tripmeter “F”

To reset a tripmeter, select it by pushing the “SELECT 2” 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).

Clock

The clock displays when the key is turned to “ON”.

INSTRUMENT AND CONTROL FUNCTIONS

To set the clock

1. Push the “SELECT 1” button for at least two seconds.
2. When the hour digits start flashing, push either select button to set the hours.
3. Push the “RESET” button, and the minute digits will start flashing.
4. Push either select button to set the minutes.
5. Push the “RESET” button, and the second digits will start flashing.
6. Push either select button to set the second digits to zero.
7. Push the “RESET” button for at least two seconds, and then release it to start the clock.

TIP

- When setting the clock, push the “SELECT 1” button to increase the digits or “SELECT 2” button to decrease the digits. Pushing and holding either button will increase or decrease the digits continuously until the button is released.

- If the “RESET” button is not pushed within 30 seconds, the clock will not be set and will return to the prior time.

Changing from the basic mode to the measurement mode

With the odometer selected, push the “SELECT 1” button and “SELECT 2” button together for at least two seconds to change to the measurement mode.

Changing from the measurement mode to the basic mode

TIP



The stopwatch must be stopped before changing to the basic mode.

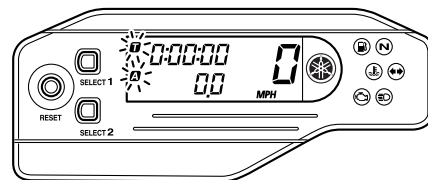
1. Check that the stopwatch is not in operation. If the stopwatch is in operation, stop it by pushing the “SELECT 1” button and “SELECT 2” button together.
2. Push the “SELECT 1” button and “SELECT 2” button together for at least two seconds to change to the basic mode.

Measurement mode (for the stopwatch)

When the measurement mode is selected, the stopwatch is displayed and it can be started manually or automatically.

Manual start

The manual start is the default setting for the stopwatch. The stopwatch indicator “” and the distance-compensation tripmeter indicator “” will start flashing.



1. Push the “RESET” button to start the stopwatch.
2. Push the “SELECT 1” button and “SELECT 2” button together to stop the stopwatch.

INSTRUMENT AND CONTROL FUNCTIONS

3. To resume stopwatch counting, push the “SELECT 1” button and “SELECT 2” button together.

To reset the stopwatch to zero, push the “RESET” button for at least two seconds.

TIP

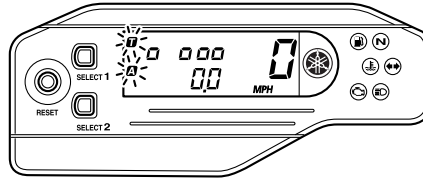
The stopwatch will continue counting when the vehicle is stopped. To stop and/or resume counting, repeat steps 2 and 3.

Auto start

1. Push the “SELECT 1” button for at least two seconds to set the auto start.

TIP

When the stopwatch is set to auto start, the stopwatch indicator “**T**” and the distance-compensation tripmeter indicator “**A**” will start flashing, and the digits in the display will start scrolling from left to right.



2. When the vehicle starts moving, the stopwatch will start counting.
3. Push the “SELECT 1” button and “SELECT 2” button together to stop the stopwatch.
4. To resume counting, push the “SELECT 1” button and “SELECT 2” button together again.

TIP

The stopwatch will continue counting when the vehicle is stopped. To stop and/or resume counting, repeat steps 3 and 4.

Measurement mode (for calibrating the distance-compensation tripmeter's reading)

The distance-compensation tripmeter is a feature intended to provide a more accurate tripmeter reading for enduro riding. Calibrating this meter in accordance with the distances specified on the enduro course map will help familiarize the rider with the course. In addition, calibrating the meter may also be necessary when using tire, wheel, chain sprocket sizes, etc. other than specified. For further information concerning the use of this meter, please consult your nearby Yamaha dealer. Calibrate the distance-compensation tripmeter as follows.

To increase the reading, push the “SELECT 1” button. To decrease the reading, push the “SELECT 2” button. Pushing and holding either button will increase or decrease the reading continuously until the button is released.

TIP

Calibrating the reading of the distance-compensation tripmeter is possible regardless of the stopwatch operation.

INSTRUMENT AND CONTROL FUNCTIONS

Resetting the distance-compensation tripmeter or the distance-compensation tripmeter in combination with the stopwatch

TIP

Resetting can be made only to the distance-compensation tripmeter or to the distance-compensation tripmeter in combination with the stopwatch.

Resetting the distance-compensation tripmeter

1. Check that the stopwatch measurement is in operation.
2. Reset the distance-compensation tripmeter to zero by pushing the “RESET” button for at least two seconds.

Resetting the distance-compensation tripmeter in combination with the stopwatch

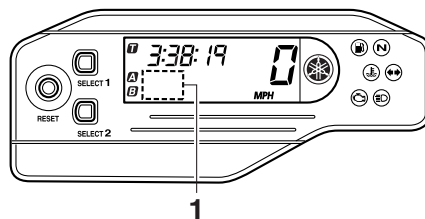
1. Stop the stopwatch.
2. Reset the distance-compensation tripmeter and the stopwatch to zero by pushing the “RESET” button for at least two seconds.

Self-diagnosis device

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

If a problem is detected in any of those circuits, the engine trouble warning light will come on and the display will indicate an error code.

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



1. Error code display

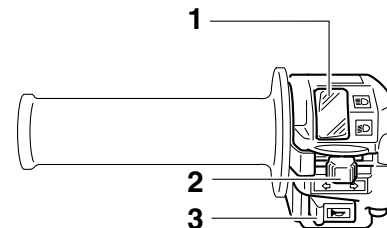
NOTICE

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

ECA11590

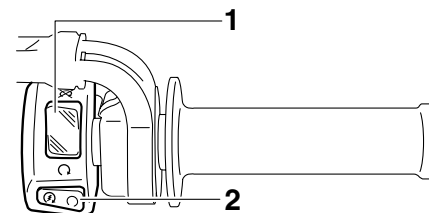
Handlebar switches

Left



1. Dimmer switch “/”
2. Turn signal switch “/”
3. Horn switch “”

Right





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

EAU12348

INSTRUMENT AND CONTROL FUNCTIONS



Dimmer switch “/”

EAU12400

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

Turn signal switch “/”

EAU12460

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



Horn switch “”

EAU12500

Press this switch to sound the horn.

Engine stop switch “/”

EAU12660

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

Start switch “”

EAU12711

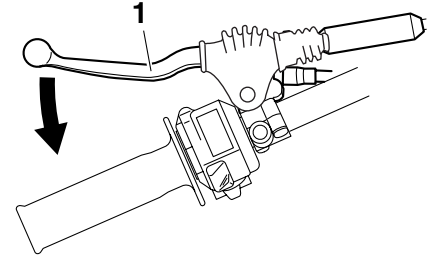
Push this switch to crank the engine with the starter. See page 6-1 for starting instructions prior to starting the engine.

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.

EAU41700

Clutch lever

EAU12820



1. Clutch lever

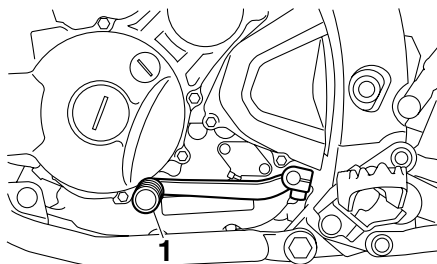
The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.

The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 4-19.)

INSTRUMENT AND CONTROL FUNCTIONS

Shift pedal

EAU12870

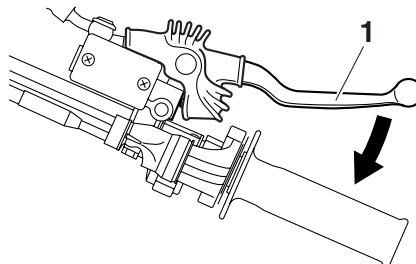


1. Shift pedal

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 6-speed constant-mesh transmission equipped on this motorcycle.

Brake lever

EAU12890

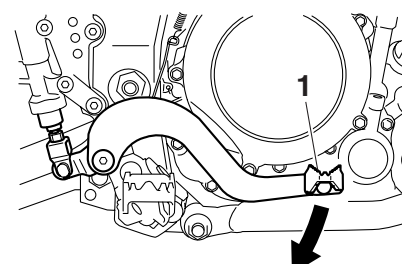


1. Brake lever

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

Brake pedal

EAU12941



1. Brake pedal

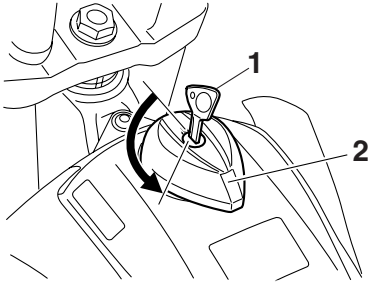
The brake pedal is on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal.

EAU44363

Fuel tank cap

To remove the fuel tank cap

1. Insert the key into the lock and turn it counterclockwise as shown.

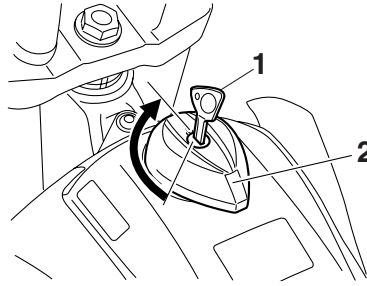


1. Key
2. Fuel tank cap

2. Turn the fuel tank cap counterclockwise and pull it off.

To install the fuel tank cap

1. Insert the fuel tank cap into the tank opening with the key inserted in the lock, and then turn the cap clockwise.
2. Turn the key clockwise, and then remove it.



1. Key
2. Fuel tank cap

TIP

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

EWA10121



Make sure that the fuel tank cap is properly closed and locked before riding. Leaking fuel is a fire hazard.

Fuel

Make sure there is sufficient gasoline in the tank.

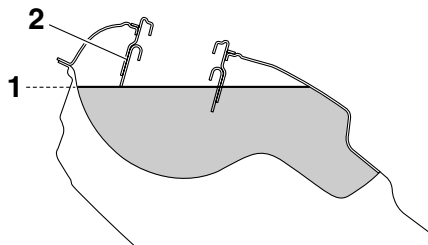
EWA10881

⚠ WARNING

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

1. 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.

INSTRUMENT AND CONTROL FUNCTIONS



1. Maximum fuel level
2. Fuel tank filler tube

3. Wipe up any spilled fuel immediately. **NOTICE: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.** [ECA10071]

4. Be sure to securely close the fuel tank cap.

EWA15151

WARNING

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

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

EAU13381

Recommended fuel:

PREMIUM UNLEADED GASOLINE ONLY

Fuel tank capacity:

WR25XZ 7.6 L (2.01 US gal,
1.67 Imp.gal)

WR25XZC 7.2 L (1.90 US gal,
1.58 Imp.gal)

Fuel reserve amount (when the fuel level warning light comes on):

2.1 L (0.55 US gal, 0.46 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 premium unleaded gasoline with a pump octane number $[(R+M)/2]$ of 91 or higher, or a research

octane number of 95 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

Gasohol

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

EAU13433

ECA10701

EAU46280

Catalytic converter

This model is equipped with a catalytic converter in the exhaust system.

EWA10862

WARNING

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

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

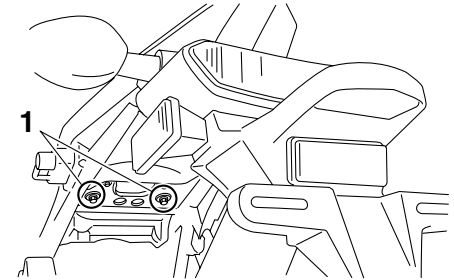
NOTICE

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

Seat

To remove the seat

Remove the bolts, and then pull the seat off.

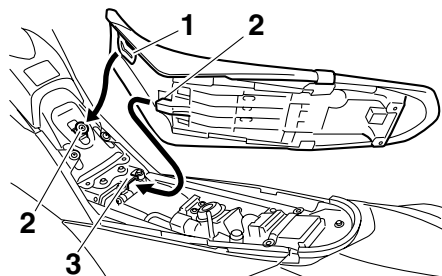


1. Bolt

To install the seat

1. Fit the slot in the seat onto the projection on the fuel tank, and insert the projection on the seat into the seat holder as shown.

INSTRUMENT AND CONTROL FUNCTIONS



1. Slot
2. Projection
3. Seat holder

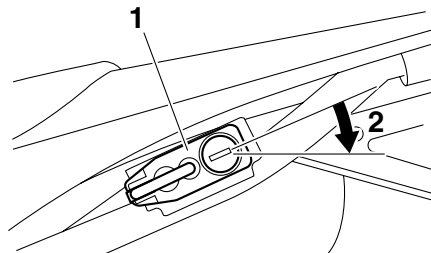
2. Place the seat in the original position, and then tighten the bolts.

TIP

Make sure that the seat is properly secured before riding.

Helmet holder

EAU14282



1. Helmet holder
2. Open.

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

To lock the helmet holder, place it in the original position, and then remove the key. **WARNING! Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.** [EWA10161]

Adjusting the front fork

EAU45202

EWA10180

⚠ WARNING

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

This front fork is equipped with rebound damping force adjusting screws and compression damping force adjusting screws.

ECA10101

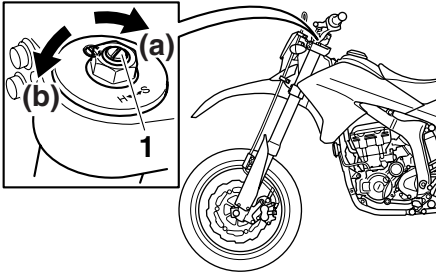
NOTICE

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

Rebound damping force

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

INSTRUMENT AND CONTROL FUNCTIONS



1. Rebound damping force adjusting screw

Rebound damping setting:

Minimum (soft):

17 click(s) in direction (b)*

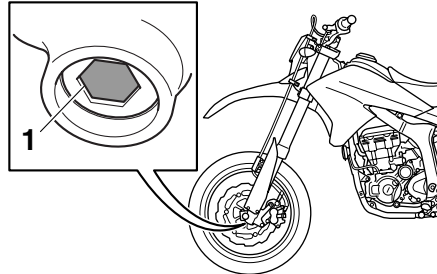
Standard:

10 click(s) in direction (b)*

Maximum (hard):

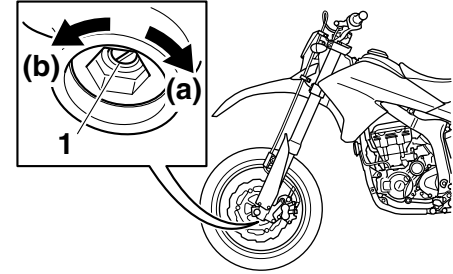
1 click(s) in direction (b)*

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



1. Rubber cap

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



1. Compression damping force adjusting screw

Compression damping setting:

Minimum (soft):

19 click(s) in direction (b)*

Standard:

10 click(s) in direction (b)*

Maximum (hard):

1 click(s) in direction (b)*

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

3. Install the rubber cap.

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,

INSTRUMENT AND CONTROL FUNCTIONS

it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.

Front fork bleeding

EAU14792

EWA10200

WARNING

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

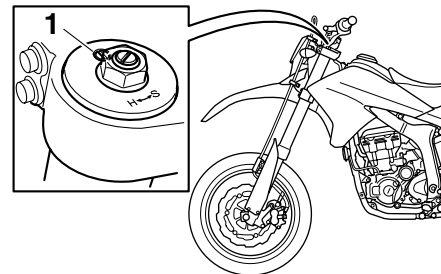
When riding in extremely rough conditions, the air temperature and pressure in the front fork will rise. This will increase the spring preload and harden the front suspension. If this occurs, bleed the front fork as follows.

1. Elevate the front wheel by placing a suitable stand under the engine.

TIP

When bleeding the front fork, there should be no weight on the front end of the vehicle.

2. Remove the bleed screws and allow all of the air to escape from each fork leg.



1. Bleed screw

3. Install the bleed screws.

EAU45263

Adjusting the shock absorber assembly

This shock absorber assembly is equipped with a spring preload adjusting ring, a rebound damping force adjusting knob and a compression damping force adjusting screw.

ECA10101

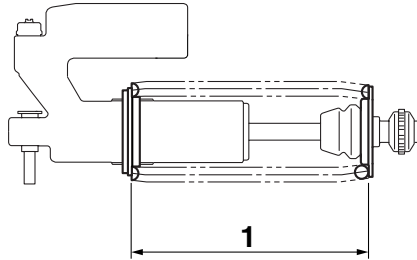
NOTICE

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

Spring preload

Spring preload adjustment should be made by a Yamaha dealer, since this service requires special tools and technical skills. The specified settings are listed below.

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



1. Distance A

Spring preload:

Minimum (soft):

Distance A = 216.0 mm (8.50 in)

Standard:

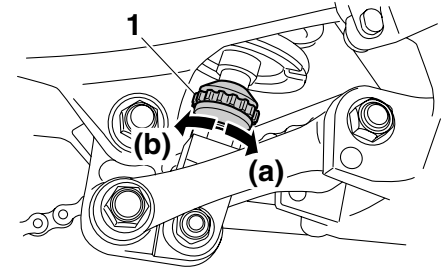
Distance A = 211.5 mm (8.33 in)

Maximum (hard):

Distance A = 206.0 mm (8.11 in)

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):

25 click(s) in direction (b)*

Standard:

13 click(s) in direction (b)*

Maximum (hard):

3 click(s) in direction (b)*

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

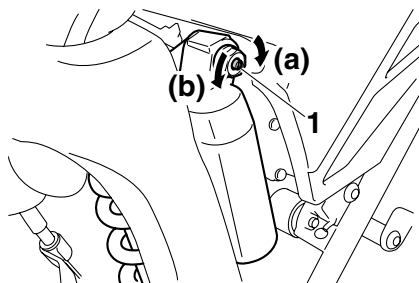
Compression damping force

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).

INSTRUMENT AND CONTROL FUNCTIONS

EWA10221

EAU41941



1. Compression damping force adjusting screw

4

Compression damping setting:

Minimum (soft):

12 click(s) in direction (b)*

Standard:

7 click(s) in direction (b)*

Maximum (hard):

1 click(s) in direction (b)*

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

TIP

To obtain a precise adjustment, it is advisable to check the actual total number of clicks or turns of 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.

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 inner diameter of the exhaust pipe. The EXUP system valve is constantly adjusted in accordance with the engine speed by a computer-controlled servomotor.

ECA15610

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.

EAU15303

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 page 4-19 for an explanation of the ignition circuit cut-off system.)

EWA10240

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.

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

With the engine turned off:

1. Move the sidestand down.
2. Make sure that the engine stop switch is set to "○".
3. Turn the key on.
4. Shift the transmission into the neutral position.
5. Push the start switch.

Does the engine start?

YES

NO

With the engine still running:

6. Move the sidestand up.
7. Keep the clutch lever pulled.
8. Shift the transmission into gear.
9. Move the sidestand down.

Does the engine stall?

YES

NO

After the engine has stalled:

10. Move the sidestand up.
11. Keep the clutch lever pulled.
12. Push the start switch.

Does the engine start?

YES

NO

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



WARNING

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

The neutral switch may not be working correctly.

The motorcycle should not be ridden until checked by a Yamaha dealer.

The sidestand switch may not be working correctly.

The motorcycle should not be ridden until checked by a Yamaha dealer.

The clutch switch may not be working correctly.

The motorcycle should not be ridden until checked by a Yamaha dealer.

FOR YOUR SAFETY – PRE-OPERATION CHECKS

EAU15596

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

EWA11151

WARNING

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

Before using this vehicle, check the following points:

ITEM	CHECKS	PAGE
Fuel	<ul style="list-style-type: none">• Check fuel level in fuel tank.• Refuel if necessary.• Check fuel line for leakage.	4-11
Engine oil	<ul style="list-style-type: none">• Check oil level in engine.• If necessary, add recommended oil to specified level.• Check vehicle for oil leakage.	7-13
Coolant	<ul style="list-style-type: none">• Check coolant level in reservoir.• If necessary, add recommended coolant to specified level.• Check cooling system for leakage.	7-15
Front brake	<ul style="list-style-type: none">• Check operation.• If soft or spongy, have Yamaha dealer bleed hydraulic system.• Check lever free play.• Adjust if necessary.• Check 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.	7-25, 7-26, 7-27

FOR YOUR SAFETY – PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Rear brake	<ul style="list-style-type: none"> • 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. 	7-26, 7-27
Clutch	<ul style="list-style-type: none"> • Check operation. • Lubricate cable if necessary. • Check lever free play. • Adjust if necessary. 	7-24
Throttle grip	<ul style="list-style-type: none"> • 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. 	7-21, 7-31
Control cables	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate if necessary. 	7-30
Drive chain	<ul style="list-style-type: none"> • Check chain slack. • Adjust if necessary. • Check chain condition. • Lubricate if necessary. 	7-28, 7-30
Wheels and tires	<ul style="list-style-type: none"> • Check for damage. • Check tire condition and tread depth. • Check air pressure. • Correct if necessary. 	7-22, 7-24
Shift pedal	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Correct if necessary. 	—
Brake pedal	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate pedal pivoting point if necessary. 	7-32
Brake and clutch levers	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate lever pivoting points if necessary. 	7-31

FOR YOUR SAFETY – PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Sidestand	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate pivot if necessary.	7-32
Chassis fasteners	<ul style="list-style-type: none">• Make sure that all nuts, bolts and screws are properly tightened.• Tighten if necessary.	—
Instruments, lights, signals and switches	<ul style="list-style-type: none">• Check operation.• Correct if necessary.	—
Sidestand switch	<ul style="list-style-type: none">• Check operation of ignition circuit cut-off system.• If system is not working correctly, have Yamaha dealer check vehicle.	4-19

OPERATION AND IMPORTANT RIDING POINTS

EAU15951

EAU46632

EAU45124

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

WARNING

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 20 minutes. In this case, the multi-function display indicates error code 70, but this is not a malfunction. Push the start switch to clear the error code and to restart the engine.

Starting the engine

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

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

See page 4-19 for more information.

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

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

- Fuel level warning light
- Coolant temperature warning light
- Engine trouble warning light

ECA15483

NOTICE

If a warning light does not come on for a few seconds, and then go off, see page 4-2 for the corresponding warning light circuit check.

OPERATION AND IMPORTANT RIDING POINTS

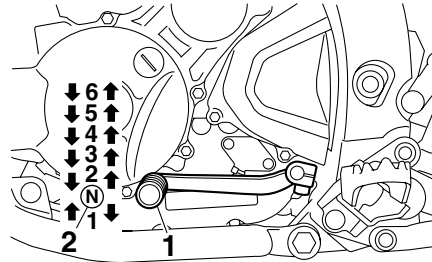
EAU16671

ECA10260

2. Shift the transmission into the neutral position. (See page 6-2.) 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.

NOTICE

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

6

EAU16681

To start out and accelerate

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

OPERATION AND IMPORTANT RIDING POINTS

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

TIP

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

To decelerate

1. Apply both the front and the rear brakes to slow the motorcycle.
2. Shift the transmission into first gear when the motorcycle reaches 20 km/h (12 mi/h). If the engine is about to stall or runs very roughly, pull the clutch lever in and use the brakes to stop the motorcycle.

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

Recommended shift points

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

Shift up points:

1st → 2nd: 16 km/h (10 mi/h)
2nd → 3rd: 24 km/h (15 mi/h)
3rd → 4th: 32 km/h (20 mi/h)
4th → 5th: 40 km/h (25 mi/h)
5th → 6th: 48 km/h (30 mi/h)

Shift down points:

6th → 5th: 20 km/h (12 mi/h)
5th → 4th: 20 km/h (12 mi/h)
4th → 3rd: 20 km/h (12 mi/h)
3rd → 2nd: 20 km/h (12 mi/h)
2nd → 1st: 20 km/h (12 mi/h)

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.

0–1000 km (0–600 mi)

Avoid prolonged operation above 1/3 throttle. **NOTICE: After 1000 km (600 mi) of operation, the engine oil must be changed, and the oil filter cartridge or element replaced.**

1000–1600 km (600–1000 mi)

Avoid prolonged operation above 1/2 throttle.

EAU16841

EAU16740

EAU17023

EAU16700

[ECA11282]

OPERATION AND IMPORTANT RIDING POINTS

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

ECA10270

NOTICE

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

EAU17213

Parking

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

EWA10311

WARNING

- Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them and be burned.
- Do not park on a slope or on soft ground, otherwise the vehicle may overturn, increasing the risk of a fuel leak and fire.
- Do not park near grass or other flammable materials which might catch fire.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU17232

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.

EWA10321

WARNING

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

EWA15121

WARNING

Turn off the engine when performing maintenance unless otherwise specified.

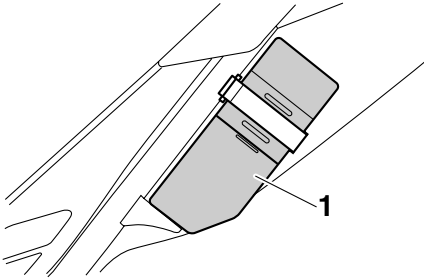
- **A running engine has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires.**
- **Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning – possibly leading to death. See page 2-1 for more information about carbon monoxide.**

EAU17302

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

EAU35011

Owner's tool kit



1. Tool box

The owner's tool kit is located inside the tool box.

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.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU48470

TIP

- From 19000 mi (31000 km) or 36 months, repeat the maintenance intervals starting from 7000 mi (11000 km) or 12 months.
- Items marked with an asterisk require special tools, data and technical skills, have a Yamaha dealer perform the service.

EAU17581

Periodic maintenance chart for the emission control system

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
				600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months	
1	*	Fuel line	<ul style="list-style-type: none">• Check fuel hoses for cracks or damage.• Replace if necessary.		√	√	√	√	√	
2		Spark plug	<ul style="list-style-type: none">• Check condition.• Adjust gap and clean.• Replace at 7000 mi (11000 km) or 12 months and thereafter every 6000 mi (10000 km) or 12 months.		√	Replace.	√	Replace.	√	
3		Spark arrester	<ul style="list-style-type: none">• Clean.		√	√	√	√	√	
4	*	Valve clearance	<ul style="list-style-type: none">• Check and adjust valve clearance when engine is cold.	Every 26600 mi (42000 km)						
5	*	Crankcase breather system	<ul style="list-style-type: none">• Check breather hose for cracks or damage.• Replace if necessary.		√	√	√	√	√	

PERIODIC MAINTENANCE AND ADJUSTMENT

No.	ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
			600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months	
6	*	Exhaust system	<ul style="list-style-type: none"> • Check for leakage. • Tighten if necessary. • Replace gasket(s) if necessary. 		√	√	√	√	√
7	*	Evaporative emission control system (for California only)	<ul style="list-style-type: none"> • Check control system for damage. • Replace if necessary. 		√		√		
8	*	Air induction system	<ul style="list-style-type: none"> • Check the air cut-off valve, reed valve, and hose for damage. • Replace any damaged parts. 			√		√	

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU32165

General maintenance and lubrication chart

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
				600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months	
1	*	Air filter element	<ul style="list-style-type: none">• Clean with solvent.• Replace if necessary.		✓	✓	✓	✓	✓	
2	*	Clutch	<ul style="list-style-type: none">• Check operation.• Adjust or replace cable.	✓	✓	✓	✓	✓	✓	
3	*	Front brake	<ul style="list-style-type: none">• Check operation, fluid level, and for fluid leakage.• Adjust brake lever free play and replace brake pads if necessary.	✓	✓	✓	✓	✓	✓	
4	*	Rear brake	<ul style="list-style-type: none">• Check operation, fluid level, and for fluid leakage.• Replace brake pads if necessary.	✓	✓	✓	✓	✓	✓	
5	*	Brake hoses	<ul style="list-style-type: none">• Check for cracks or damage.		✓	✓	✓	✓	✓	
			<ul style="list-style-type: none">• Replace.	Every 4 years						
6	*	Wheels	<ul style="list-style-type: none">• Check runout, spoke tightness and for damage.• Tighten spokes if necessary.		✓	✓	✓	✓	✓	
7	*	Tires	<ul style="list-style-type: none">• Check tread depth and for damage.• Replace if necessary.• Check air pressure.• Correct if necessary.		✓	✓	✓	✓	✓	
8	*	Wheel bearings	<ul style="list-style-type: none">• Check bearings for smooth operation.• Replace if necessary.		✓	✓	✓	✓	✓	

PERIODIC MAINTENANCE AND ADJUSTMENT

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
				600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months	
9	*	Swingarm pivot bearings	<ul style="list-style-type: none">• Check bearing assemblies for looseness.• Moderately repack with lithium-soap-based grease.			√		Repack.		
10		Drive chain	<ul style="list-style-type: none">• Check chain slack, alignment and condition.• Adjust and lubricate chain with a special O-ring chain lubricant thoroughly.	Every 300 mi (500 km) and after washing the motorcycle, riding in the rain or riding in wet areas						
11	*	Steering bearings	<ul style="list-style-type: none">• Check bearing assemblies for looseness.• Moderately repack with lithium-soap-based grease.	√	√	√	√	Repack.	√	
12	*	Chassis fasteners	<ul style="list-style-type: none">• Check all chassis fitting and fasteners.• Correct if necessary.		√	√	√	√	√	
13		Brake lever pivot shaft	<ul style="list-style-type: none">• Apply silicone grease lightly.		√	√	√	√	√	
14		Brake pedal pivot shaft	<ul style="list-style-type: none">• Apply lithium-soap-based grease lightly.		√	√	√	√	√	
15		Clutch lever pivot shaft	<ul style="list-style-type: none">• Apply lithium-soap-based grease lightly.		√	√	√	√	√	
16		Sidestand pivot	<ul style="list-style-type: none">• Check operation.• Apply lithium-soap-based grease lightly.		√	√	√	√	√	
17	*	Sidestand switch	<ul style="list-style-type: none">• Check operation and replace if necessary.	√	√	√	√	√	√	

PERIODIC MAINTENANCE AND ADJUSTMENT

No.	ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
			600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months	
18	*	Front fork	<ul style="list-style-type: none">• Check operation and for oil leakage.• Replace if necessary.		√	√	√	√	√
19	*	Shock absorber assembly	<ul style="list-style-type: none">• Check operation and for oil leakage.• Replace if necessary.		√	√	√	√	√
20	*	Rear suspension link pivots	<ul style="list-style-type: none">• Check operation.• Correct if necessary.			√		√	
21		Engine oil	<ul style="list-style-type: none">• Change (warm engine before draining).	√	√	√	√	√	√
22		Engine oil filter element	<ul style="list-style-type: none">• Replace.	√		√		√	
23	*	Cooling system	<ul style="list-style-type: none">• Check hoses for cracks or damage.• Replace if necessary.		√	√	√	√	√
			<ul style="list-style-type: none">• Change with ethylene glycol anti-freeze coolant every 24 months.					Change.	
24	*	Front and rear brake switches	<ul style="list-style-type: none">• Check operation.	√	√	√	√	√	√
25	*	Control cables	<ul style="list-style-type: none">• Apply Yamaha chain and cable lube or engine oil thoroughly.	√	√	√	√	√	√
26	*	Throttle grip housing and cable	<ul style="list-style-type: none">• Check operation and free play.• Adjust the throttle cable free play if necessary.• Lubricate the throttle grip housing and cable.		√	√	√	√	√

PERIODIC MAINTENANCE AND ADJUSTMENT

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS				
				600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months
27	*	Lights, signals and switches	<ul style="list-style-type: none">• Check operation.• Adjust headlight beam.	√	√	√	√	√	√

EAU17630

TIP

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

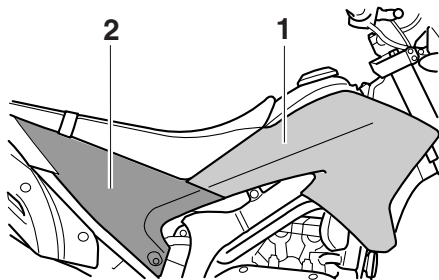
PERIODIC MAINTENANCE AND ADJUSTMENT

EAU18771

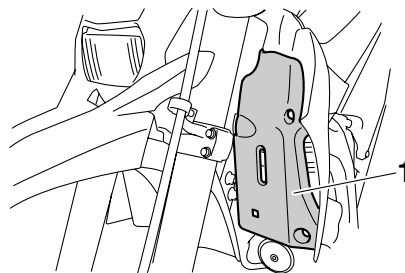
EAU45131

Removing and installing panels

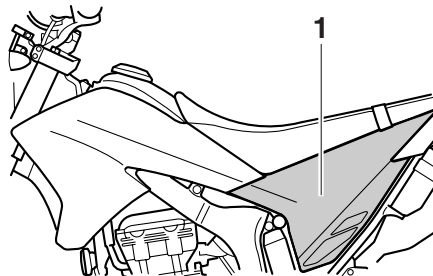
The panels shown need to be removed to perform some of the maintenance jobs described in this chapter. Refer to this section each time a panel needs to be removed and installed.



- 7
1. Panel A
 2. Panel B



1. Panel C

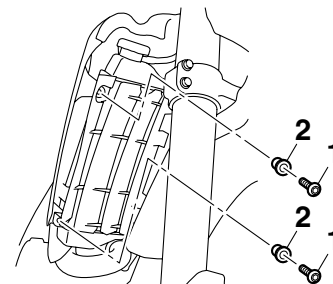


1. Panel D

Panel A

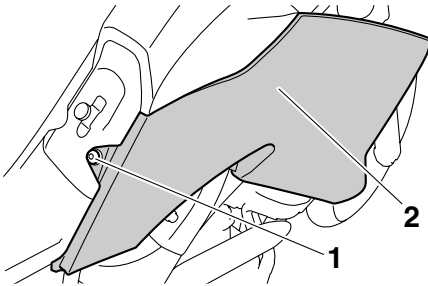
To remove the panel

1. Remove the seat. (See page 4-13.)
2. Remove the bolts and collars.



1. Bolt
2. Collar

PERIODIC MAINTENANCE AND ADJUSTMENT

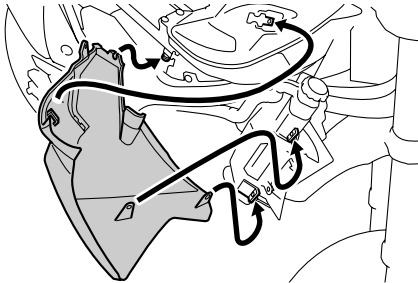


1. Bolt
2. Panel A

3. Pull the front part of the panel outward, and then remove the panel by pulling it off.

To install the panel

1. Place the panel in the original position, and then install the collars and bolts.

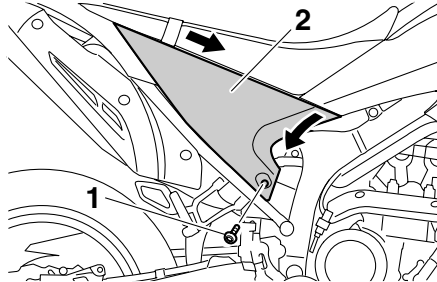


2. Install the seat.

Panel B

To remove the panel

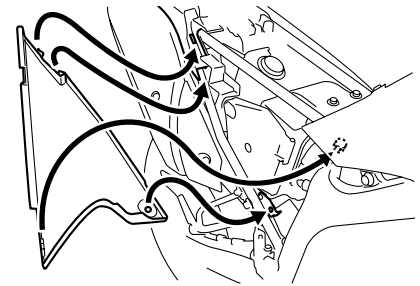
1. Remove the seat. (See page 4-13.)
2. Remove the bolt, and then remove the panel as shown.



1. Bolt
2. Panel B

To install the panel

1. Place the panel in the original position, and then install the bolt.

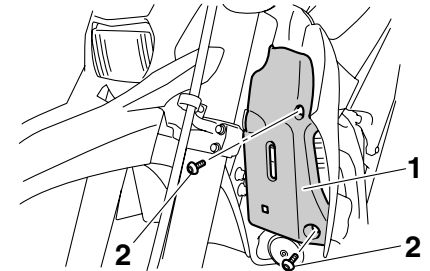


2. Install the seat.

Panel C

To remove the panel

1. Remove the bolts.



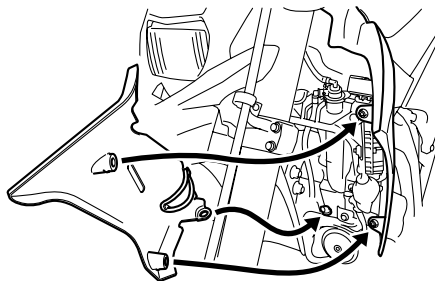
1. Panel C
2. Bolt

PERIODIC MAINTENANCE AND ADJUSTMENT

2. Lift the bottom of the panel slightly, and then slide the panel forward.

To install the panel

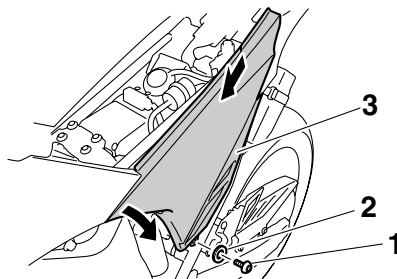
Place the panel in the original position, and then install the bolts.



Panel D

To remove the panel

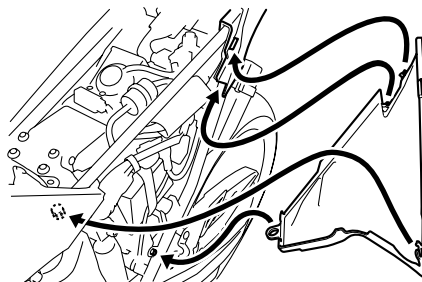
1. Remove the seat. (See page 4-13.)
2. Remove the bolt and washer, and then remove the panel as shown.



1. Bolt
2. Washer
3. Panel D

To install the panel

1. Place the panel in the original position, and then install the washer and bolt.



2. Install the seat.

EAU48340

Checking the spark plug

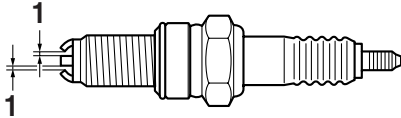
The spark plug is an important engine component, which should be checked periodically, preferably by a Yamaha dealer. Since heat and deposits will cause any spark plug to slowly erode, it should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plug can reveal the condition of the engine.

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

Specified spark plug:
NGK/CR9EK

PERIODIC MAINTENANCE AND ADJUSTMENT

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:

0.6–0.7 mm (0.024–0.028 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:

12.5 Nm (1.25 m·kgf, 9.0 ft·lbf)

TIP

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

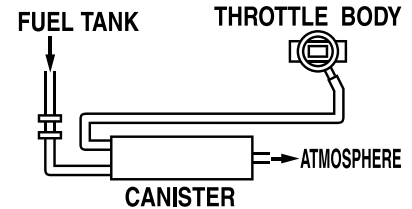
ECA10840

NOTICE

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

Canister (for California only)

EAU19681



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

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU45142

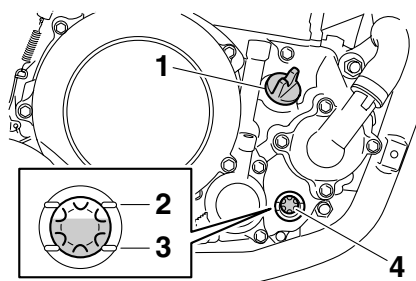
Engine oil and oil filter element

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

To check the engine oil level

1. Place the 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 for several minutes, and then turn it off.
3. Wait a few minutes until the oil settles, and then check the oil level through the check window located at the bottom-right side of the crankcase.

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



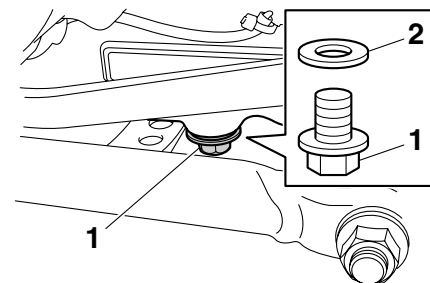
1. Engine oil filler cap
2. Maximum level mark
3. Minimum level mark
4. Engine oil level check window

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

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

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

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

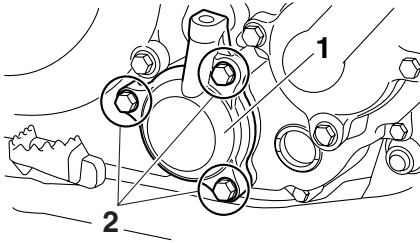


1. Engine oil drain bolt
2. Gasket

TIP _____
Skip steps 5–7 if the oil filter element is not being replaced.

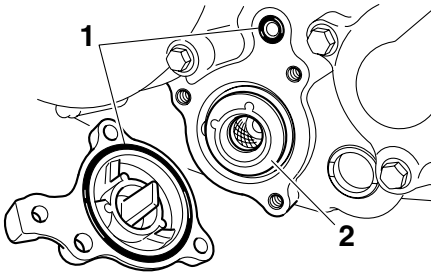
5. Remove the oil filter element cover by removing the bolts.

PERIODIC MAINTENANCE AND ADJUSTMENT



1. Oil filter element cover
2. Oil filter element cover bolt

6. Remove the oil filter element and O-rings.



1. O-ring
2. Oil filter element

7. Install a new oil filter element and new O-rings.

TIP _____
Make sure that the O-rings are properly seated.

8. Install the oil filter element cover by installing the bolts, then tightening them to the specified torque.

Tightening torque:
Oil filter element cover bolt:
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

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

Tightening torque:
Engine oil drain bolt:
20 Nm (2.0 m·kgf, 14 ft·lbf)

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

Recommended oil:

See page 9-1.

Oil quantity:

Without oil filter element replacement:

1.30 L (1.37 US qt, 1.14 Imp.qt)

With oil filter element replacement:

1.40 L (1.48 US qt, 1.23 Imp.qt)

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

ECA11620

NOTICE

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

PERIODIC MAINTENANCE AND ADJUSTMENT

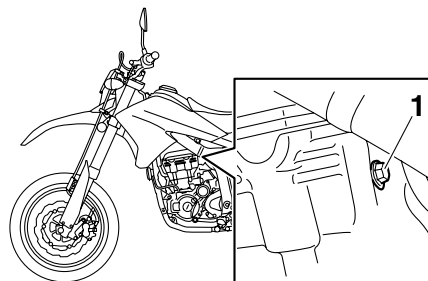
11. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
12. Turn the engine off, wait a few minutes until the oil settles, and then check the oil level and correct it if necessary.

ECA11231

NOTICE

After changing the engine oil, make sure to check the oil pressure as described below.

- Loosen the bleed bolt.
- Start the engine and keep it idling until oil flows out. If no oil comes out after one minute, turn the engine off immediately so it will not seize. If this occurs, have a Yamaha dealer repair the vehicle.
- After checking the oil pressure, tighten the bleed bolt to the specified torque.



1. Bleed bolt

Tightening torque:

Bleed bolt:

10 Nm (1.0 m·kgf, 7.2 ft·lbf)

Coolant

EAU20070

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

EAU20253

To check the coolant level

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

TIP

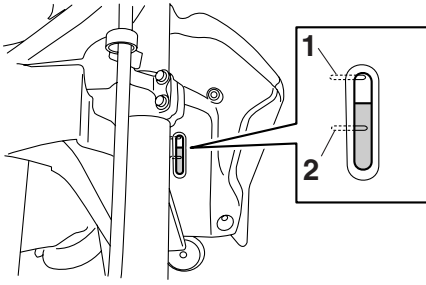
- The coolant level must be checked on a cold engine since the level varies with engine temperature.
 - Make sure that the vehicle is positioned straight up when checking the coolant level. A slight tilt to the side can result in a false reading.
2. Check the coolant level in the coolant reservoir.

TIP

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU45155

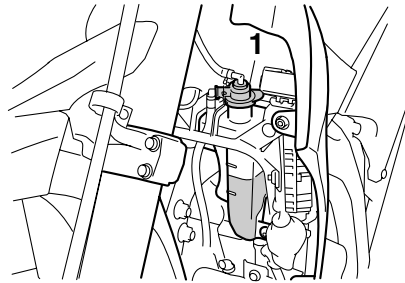


1. Maximum level mark
2. Minimum level mark

3. If the coolant is at or below the minimum level mark, remove panel C (See page 7-9.), remove the reservoir cap, add coolant to the maximum level mark, and then install the reservoir cap and the panel. **WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot.**

[EWA15161] **NOTICE:** If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine. If water has been used instead of coolant, replace it with cool-

ant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion. If water has been added to the coolant, have a Yamaha dealer check the anti-freeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced. [ECA10472]

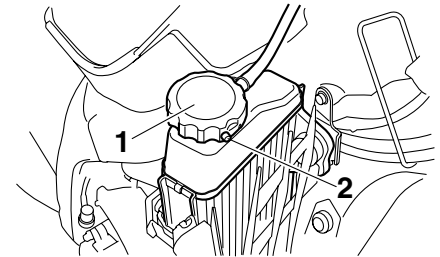


1. Coolant reservoir cap

Coolant reservoir capacity (up to the maximum level mark):
0.25 L (0.26 US qt, 0.22 Imp.qt)

To change the coolant

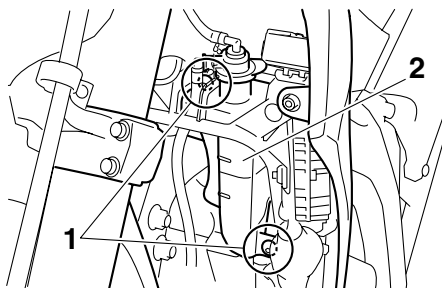
1. Place the vehicle on a level surface and let the engine cool if necessary.
2. Remove panels A and C. (See page 7-9.)
3. Place a container under the engine to collect the used coolant.
4. Remove the radiator cap retaining bolt and radiator cap. **WARNING! Never attempt to remove the radiator cap when the engine is hot.** [EWA10381]



1. Radiator cap
2. Radiator cap retaining bolt

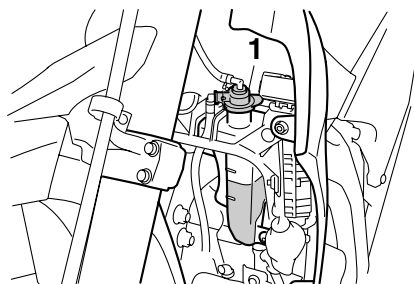
5. Remove the coolant reservoir by removing the bolts.

PERIODIC MAINTENANCE AND ADJUSTMENT



- 1. Bolt
- 2. Coolant reservoir

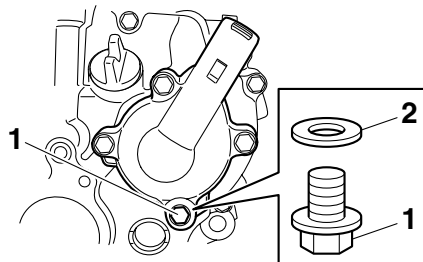
6. Remove the coolant reservoir cap.



- 1. Coolant reservoir cap

- 7. Drain the coolant from the coolant reservoir by turning it upside down.
- 8. Install the coolant reservoir by placing it in the original position, and then installing the bolts.

- 9. Remove the coolant drain bolt and its gasket to drain the cooling system.



- 1. Coolant drain bolt
- 2. Gasket

- 10. After the coolant is completely drained, thoroughly flush the cooling system with clean tap water.
- 11. Install the coolant drain bolt and its new gasket, and then tighten the bolt to the specified torque.

Tightening torque:

Coolant drain bolt:
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

- 12. Pour the specified amount of the recommended coolant into the radiator and reservoir.

Antifreeze/water mixture ratio:

1:1

Recommended antifreeze:

High-quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines

Coolant quantity:

Radiator capacity (including all routes):

0.90 L (0.95 US qt, 0.79 Imp. qt)

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

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

- 13. Install the coolant reservoir cap.
- 14. Install the radiator cap.
- 15. Start the engine, let it idle for several minutes, and then turn it off.
- 16. Remove the radiator cap to check the coolant level in the radiator. If necessary, add sufficient coolant until it reaches the top of the radiator, and then install the radiator cap and its retaining bolt.
- 17. Check the coolant level in the reservoir. If necessary, remove the coolant reservoir cap, add coolant to the maximum level mark, and then install the cap.

PERIODIC MAINTENANCE AND ADJUSTMENT

18. Start the engine, and then check the vehicle for coolant leakage. If coolant is leaking, have a Yamaha dealer check the cooling system.
19. Install the panels.

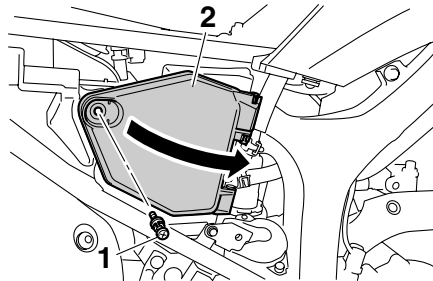
Cleaning the air filter element and check hose

EAU44323

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

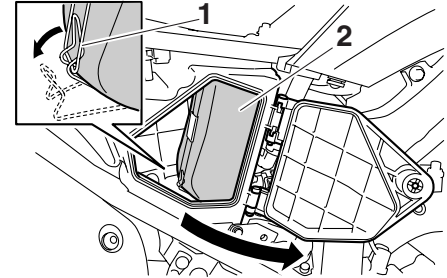
To clean the air filter element

1. Remove panel B. (See page 7-9.)
2. Open the air filter case cover by removing the screw and pulling the case cover outward as shown.



1. Screw
2. Air filter case cover

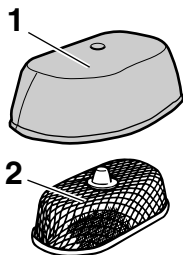
3. Unhook the holding clip, and then pull the air filter element out.



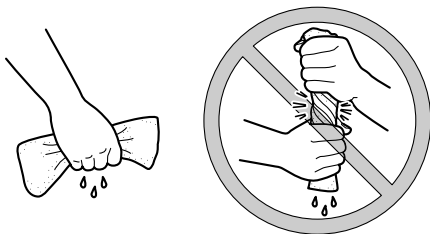
1. Holding clip
2. Air filter element

4. Remove the sponge material from the air filter element frame, clean it with solvent, and then squeeze the remaining solvent out. **WARNING!** Use only a dedicated parts cleaning solvent. To avoid the risk of fire or explosion, do not use gasoline or solvents with a low flash point. [EWA10431] **NOTICE:** To avoid damaging the foam material, handle it gently and carefully, and do not twist or wring it. [ECA10511]

PERIODIC MAINTENANCE AND ADJUSTMENT



1. Sponge material
2. Air filter element frame



5. Apply oil of the recommended type to the entire surface of the sponge material, and then squeeze the excess oil out.

TIP _____
The sponge material should be wet but not dripping.

Recommended oil:

Yamaha foam air filter oil or other quality foam air filter oil

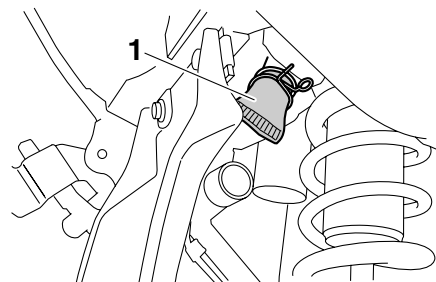
6. Pull the sponge material over the air filter element frame.
7. Insert the air filter element into the air filter case. **NOTICE: Make sure that the air filter element is properly seated in the air filter case. The engine should never be operated without the air filter element installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.**

[ECA10481]

8. Place the holding clip in the original position.
9. Close the air filter case cover, and then install the screw.
10. Install the panel.

To clean the air filter check hose

1. Check the hose at the bottom of the air filter case for accumulated dirt or water.



1. Air filter check hose
2. If dirt or water is visible, remove the hose, clean it, and then install it.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU45352

Cleaning the spark arrester

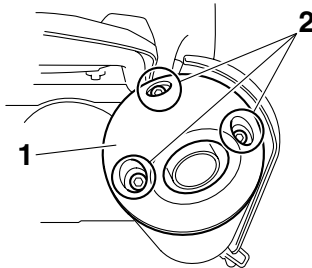
The spark arrester should be cleaned at the intervals specified in the periodic maintenance and lubrication chart.

EWA10980

WARNING

- Always let the exhaust system cool prior to touching exhaust components.
- Do not start the engine when cleaning the exhaust system.

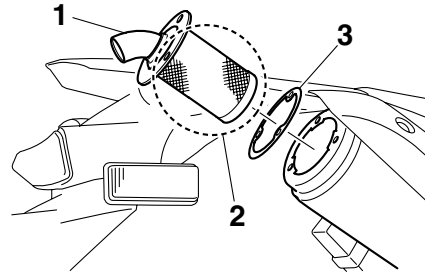
1. Remove the spark arrester cap by removing the bolts.



1. Spark arrester cap
2. Bolt

2. Remove the tailpipe by pulling it out of the muffler, and then remove the gasket.

3. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe and inside of the tailpipe housing.



1. Tailpipe
2. Spark arrester
3. Gasket

4. Install the gasket, and then insert the tailpipe into the muffler and align the bolt holes.
5. Install the spark arrester cap by installing the bolts, and then tightening them to the specified torque.

Tightening torque:

Spark arrester cap bolt:
12 Nm (1.2 m·kgf, 8.7 ft·lbf)

TIP

Make sure to align the bolt holes when installing the spark arrester cap.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU45322

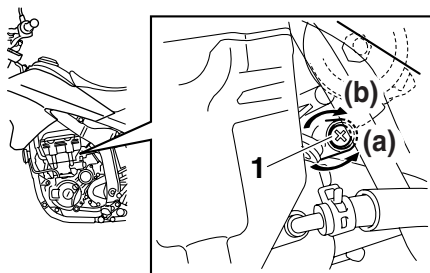
Adjusting the engine idling speed

The engine idling speed must be checked and, if necessary, adjusted as follows.

TIP

A digital tachometer is needed to make this adjustment.

1. Position the digital tachometer at the ignition coil, which is located in the spark plug cap.
2. Check the engine idling speed and, if necessary, adjust it to specification by turning the idle adjusting screw. To increase the engine idling speed, turn the screw in direction (a). To decrease the engine idling speed, turn the screw in direction (b).



1. Idle adjusting screw

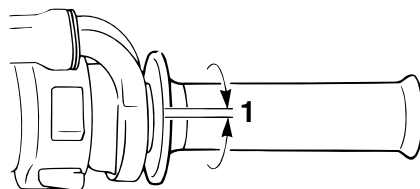
Engine idling speed:
1450–1650 r/min

TIP

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

EAU21382

Checking the throttle cable free play



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.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU21401

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.

EAU48350

Tires

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

Tire air pressure

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

EWA10501



WARNING

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

- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).
- The tire air pressure must be adjusted in accordance with the riding speed and with the total 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:

200 kPa (2.00 kgf/cm², 29 psi)

Rear:

200 kPa (2.00 kgf/cm², 29 psi)

WR25XZ 90–185 kg (198–408 lb)

WR25XZC 90–184 kg (198–406 lb):

Front:

200 kPa (2.00 kgf/cm², 29 psi)

Rear:

225 kPa (2.25 kgf/cm², 33 psi)

Maximum load*:

WR25XZ 185 kg (408 lb)

WR25XZC 184 kg (406 lb)

* Total weight of rider, passenger, cargo and accessories

EWA10511

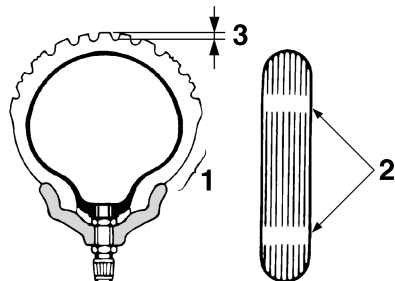


WARNING

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

PERIODIC MAINTENANCE AND ADJUSTMENT

Tire inspection



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

The tires must be checked before each ride. If the tire shows crosswise lines (minimum tread depth), 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):

1.0 mm (0.04 in)

Tire information

This motorcycle is equipped with tube tires.

EWA10461

WARNING

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

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

Front tire:

Size:

110/70R17M/C 54H

Manufacturer/model:

BRIDGESTONE/BT090F RADIAL G

Rear tire:

Size:

140/70R17M/C 66H

Manufacturer/model:

BRIDGESTONE/BT090R RADIAL G

EWA10561

WARNING

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

PERIODIC MAINTENANCE AND ADJUSTMENT

Spoke wheels

EAU21941

EW410610

WARNING

The wheels on this model are not designed for use with tubeless tires. Do not attempt to use tubeless tires on this model.

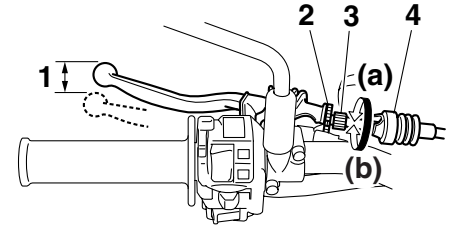
To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified wheels.

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

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

Adjusting the clutch lever free play

EAU48372



1. Clutch lever free play
2. Locknut (clutch lever)
3. Clutch lever free play adjusting bolt
4. Rubber cover

The clutch lever free play should measure 10.0–15.0 mm (0.39–0.59 in) as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows.

1. Slide the rubber cover back at the clutch lever.
2. Loosen the locknut.
3. To increase the clutch lever free play, turn the clutch lever free play adjusting bolt in direction (a). To

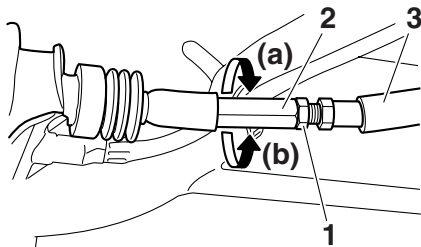
PERIODIC MAINTENANCE AND ADJUSTMENT

decrease the clutch lever free play, turn the adjusting bolt in direction (b).

TIP

If the specified clutch lever free play could be obtained as described above, skip steps 4–7.

4. Fully turn the adjusting bolt in direction (a) to loosen the clutch cable.
5. Slide the rubber cover back further down the clutch cable, and then loosen the locknut.

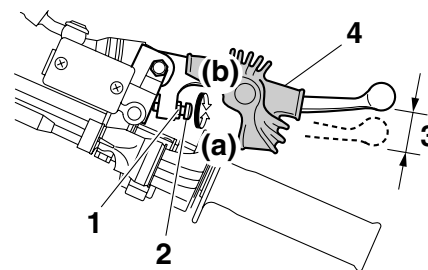


1. Locknut (clutch cable)
2. Clutch lever free play adjusting nut (clutch cable)
3. Rubber cover

6. To increase the clutch lever free play, turn the clutch lever free play adjusting nut in direction (a). To decrease the clutch lever free play, turn the adjusting nut in direction (b).
7. Tighten the locknut at the clutch cable, and then slide the rubber cover to its original position.
8. Tighten the locknut at the clutch lever, and then slide the rubber cover to its original position.

Adjusting the brake lever free play

EAU48440



1. Locknut
2. Brake lever free play adjusting screw
3. Brake lever free play
4. Rubber cover

The brake lever free play should measure 5.0–8.0 mm (0.20–0.31 in) as shown. Periodically check the brake lever free play and, if necessary, adjust it as follows.

1. Slide the rubber cover back at the brake lever.
2. Loosen the locknut.
3. To increase the brake lever free play, turn the brake lever free play adjusting screw in direction (a). To

PERIODIC MAINTENANCE AND ADJUSTMENT

decrease the brake lever free play, turn the adjusting screw in direction (b).

4. Tighten the locknut, and then slide the rubber cover to its original position.

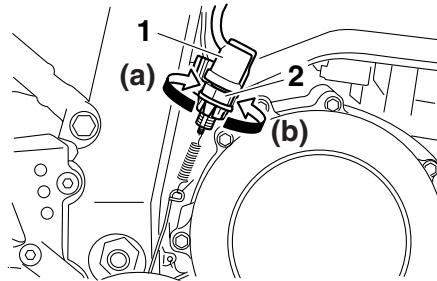
EWA10630

⚠ WARNING

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

Brake light switches

EAU22273



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

The brake light, which is activated by the brake pedal and brake lever, should come on just before braking takes effect. If necessary, adjust the rear brake light switch as follows, but the front brake light switch should be adjusted by a Yamaha dealer.

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).

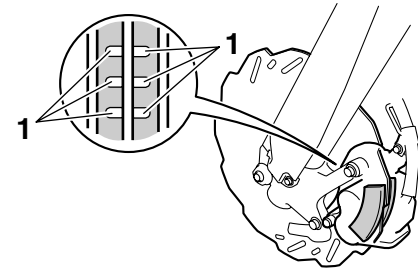
Checking the front and rear brake pads

EAU22392

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

EAU22430



1. Brake pad wear indicator groove

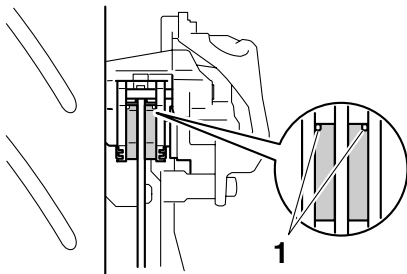
Each front brake pad is provided with wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that the wear

PERIODIC MAINTENANCE AND ADJUSTMENT

indicator grooves have almost disappeared, have a Yamaha dealer replace the brake pads as a set.

Rear brake pads

EAU48070



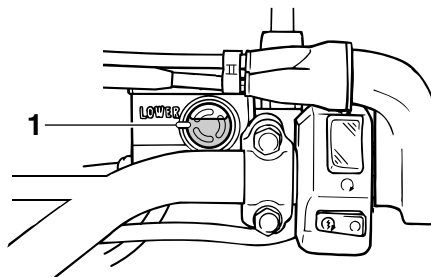
1. Brake pad wear indicator groove

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

Checking the brake fluid level

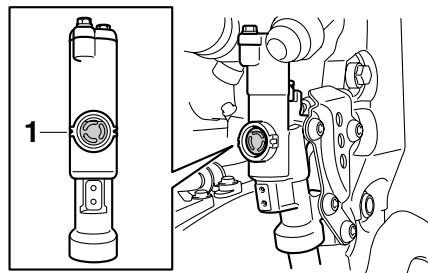
EAU22580

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.

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.

PERIODIC MAINTENANCE AND ADJUSTMENT

- 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.

Changing the brake fluid

EAU22731

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

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

Drive chain slack

EAU22760

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

EAU47222

To check the drive chain slack

1. Place the motorcycle on the side-stand.

TIP

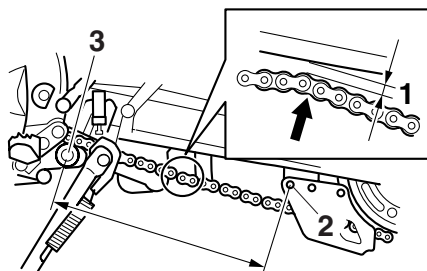
When checking and adjusting the drive chain slack, there should be no weight on the motorcycle.

2. Shift the transmission into the neutral position.
3. Push on the drive chain at the center point between the chain tensioner and the chain support mounting bolt with a force of 50 N (5.0 kgf, 11 lbf).
4. Measure drive chain slack between the swingarm and the top of the chain link closest to the swingarm as shown.

Drive chain slack:

8.0–13.0 mm (0.31–0.51 in)

PERIODIC MAINTENANCE AND ADJUSTMENT



1. Drive chain slack
2. Chain support mounting bolt
3. Chain tensioner

5. If the drive chain slack is incorrect, adjust it as follows.

EAU22944

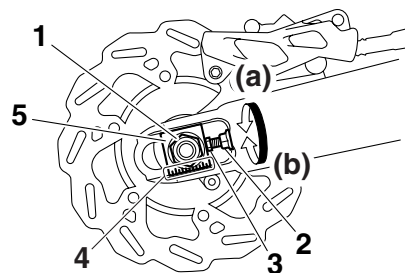
To adjust the drive chain slack

1. Loosen the axle nut and the locknut on each side of the swingarm.
2. 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 drive chain pullers are in the same position for proper wheel alignment.



1. Axle nut
 2. Locknut
 3. Drive chain slack adjusting bolt
 4. Alignment marks
 5. Drive chain puller
3. Tighten the locknuts, and then tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

125 Nm (12.5 m·kgf, 90 ft·lbf)

PERIODIC MAINTENANCE AND ADJUSTMENT

Cleaning and lubricating the drive chain

EAU23025

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.

ECA10583

NOTICE

The drive chain must be lubricated after washing the motorcycle, riding in the rain or riding in wet areas.

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. [ECA11121]
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.

[ECA11111]

Checking and lubricating the cables

EAU23093

The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it. **WARNING!** Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.

[EWA10711]

Recommended lubricant:

Yamaha Chain and Cable Lube or engine oil

PERIODIC MAINTENANCE AND ADJUSTMENT

Checking and lubricating the throttle grip and cable

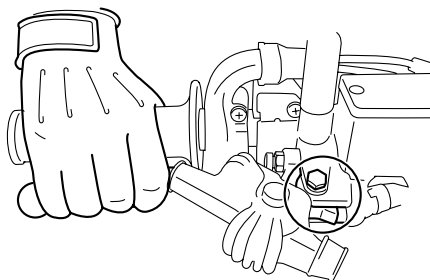
EAU23112

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

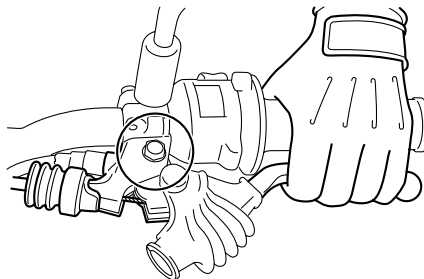
Checking and lubricating the brake and clutch levers

EAU23142

Brake lever



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 lubricants:

Brake lever:

Silicone grease

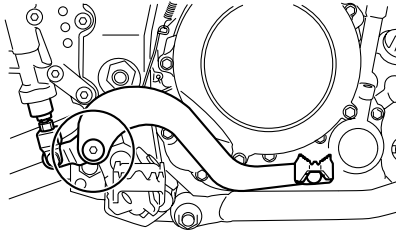
Clutch lever:

Lithium-soap-based grease

PERIODIC MAINTENANCE AND ADJUSTMENT

Checking and lubricating the brake pedal

EAU23182

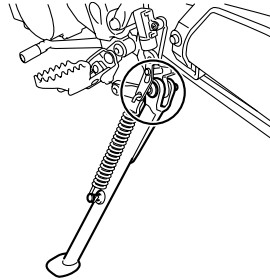


The operation of the brake pedal should be checked before each ride, and the pedal pivot should be lubricated if necessary.

Recommended lubricant:
Lithium-soap-based grease

Checking and lubricating the sidestand

EAU23202



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.

WARNING

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

Lubricating the swingarm pivots

EAUM1651

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

Recommended lubricant:
Lithium-soap-based grease

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU23272

Checking the front fork

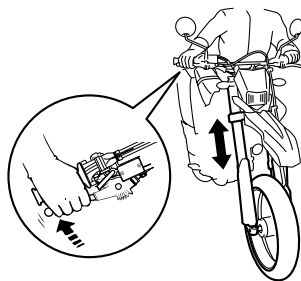
The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition

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

To check the operation

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.



ECA10590

NOTICE

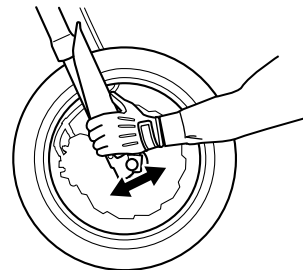
If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

EAU23283

Checking the steering

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

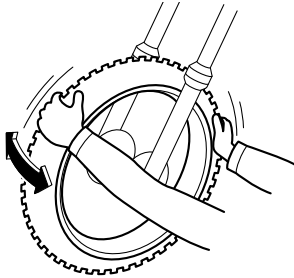
1. Place a stand under the engine to raise the front wheel off the ground. (See page 7-39 for more information.) **WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over.** [EWA10751]
2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.



PERIODIC MAINTENANCE AND ADJUSTMENT

EAU23291

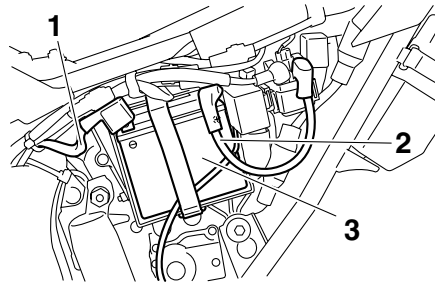
Checking the wheel bearings



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

EAU46341

Battery



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

The battery is located behind panel D. (See page 7-9.)

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

EWA10760



WARNING

- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe**

burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.

- **EXTERNAL:** Flush with plenty of water.
- **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
- **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- **Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.**
- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**

To 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

PERIODIC MAINTENANCE AND ADJUSTMENT

battery tends to discharge more quickly if the vehicle is equipped with optional electrical accessories.

ECA16520

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

1. If the model 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.

ECA16530

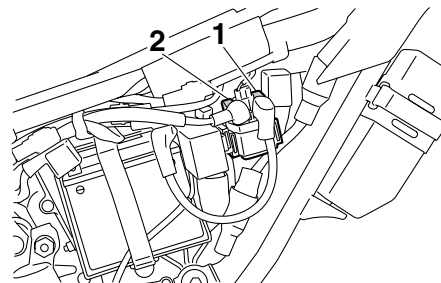
NOTICE

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

EAU23542

Replacing the fuses

The main fuse is located behind panel D. (See page 7-9.)

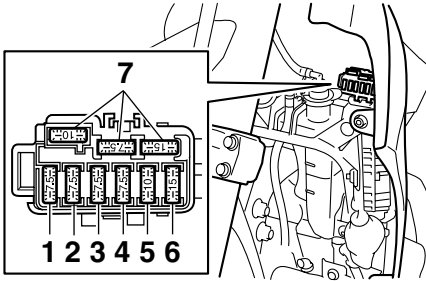


1. Main fuse
2. Spare main fuse

The fuse box, which contains the fuses for the individual circuits, is located behind panel C. (See page 7-9.)

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU45213



1. Fuel injection system fuse
2. Radiator fan fuse
3. Backup fuse
4. Ignition fuse
5. Signaling system fuse
6. Headlight fuse
7. 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.
2. Remove the blown fuse, and then install a new fuse of the specified amperage. **WARNING! Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.** [EWA15131]

Specified fuses:

- Main fuse:
30.0 A
- Ignition fuse:
7.5 A
- Signaling system fuse:
10.0 A
- Headlight fuse:
15.0 A
- Radiator fan fuse:
7.5 A
- Backup fuse:
7.5 A
- Fuel injection system fuse:
7.5 A

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

Replacing the headlight bulb

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

ECA10650

NOTICE

Take care not to damage the following parts:

- Headlight bulb

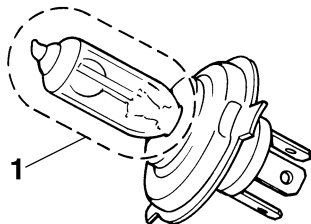
Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

- Headlight lens

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

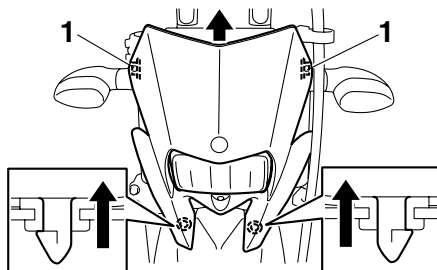
Do not use a headlight bulb of a wattage higher than specified.

PERIODIC MAINTENANCE AND ADJUSTMENT



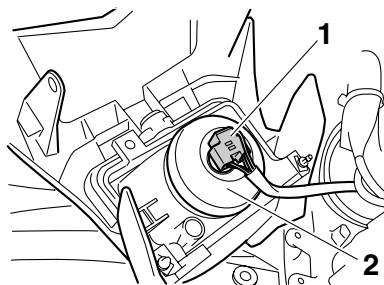
1. Do not touch the glass part of the bulb.

1. Remove the headlight cowling (together with the headlight unit) by removing the bolts and pulling upward as shown.



1. Bolt

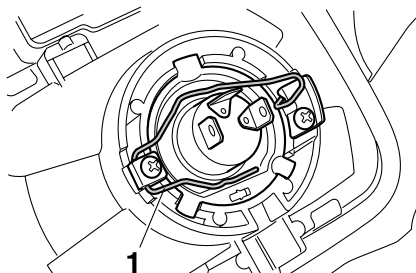
2. Disconnect the headlight coupler, and then remove the bulb cover.



1. Headlight coupler

2. Headlight bulb cover

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



1. Headlight bulb holder

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

5. Install the headlight bulb cover, and then connect the coupler.
6. Install the headlight cowling (together with the headlight unit) by placing it in the original position, and then installing the bolts.
7. Have a Yamaha dealer adjust the headlight beam if necessary.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU24181

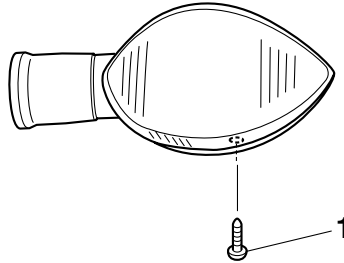
Tail/brake light

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.

EAU43002

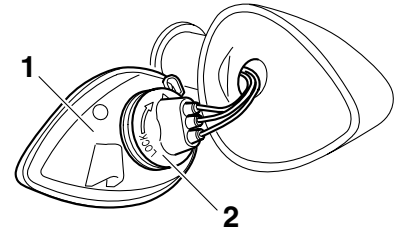
Replacing a turn signal light bulb

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



1. Screw

2. Remove the socket (together with the bulb) by turning it counter-clockwise.



1. Turn signal light unit
2. Turn signal light bulb socket

3. Remove the burnt-out bulb by pulling it out.
4. Insert a new bulb into the socket.
5. Install the socket (together with the bulb) by turning it clockwise.
6. Install the turn signal light unit by installing the screw. **NOTICE: Do not overtighten the screw, otherwise the lens may break.**

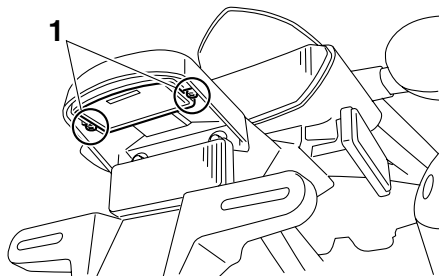
[ECA11191]

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU24312

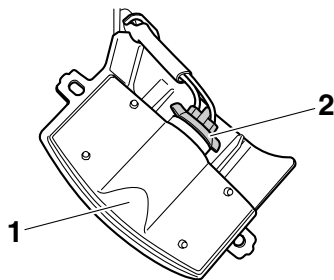
Replacing the license plate light bulb

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



1. Screw

2. Remove the socket (together with the bulb) by pulling it out.



1. License plate light unit
2. License plate light bulb socket

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

EAU24350

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 up-right. Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability.

To service the front wheel

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

To service the rear wheel

Raise the rear wheel off the ground by using a motorcycle stand or, if a motorcycle stand is not available, by placing

PERIODIC MAINTENANCE AND ADJUSTMENT

a jack either under each side of the frame in front of the rear wheel or under each side of the swingarm.

Front wheel

EAU24360

To remove the front wheel

EAU45161

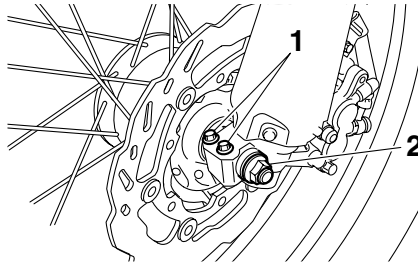
EWA10821



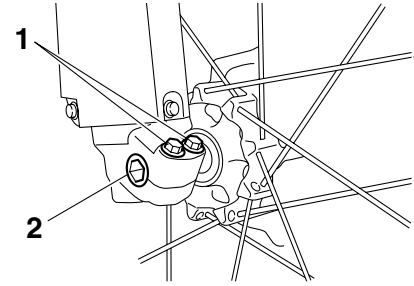
WARNING

To avoid injury, securely support the vehicle so there is no danger of it falling over.

1. Loosen the front wheel axle pinch bolts and axle nut.



1. Front wheel axle pinch bolt
2. Axle nut



1. Front wheel axle pinch bolt
2. Wheel axle

2. Lift the front wheel off the ground according to the procedure on page 7-39.
3. Remove the axle nut.
4. Pull the wheel axle out, and then remove the wheel. **NOTICE:** Do not apply the brake after the wheel has been removed together with the brake disc, otherwise the brake pads will be forced shut. [ECA11071]

To install the front wheel

EAU45171

1. Lift the wheel up between the fork legs.

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TIP

Make sure that there is enough space between the brake pads before installing the brake caliper onto the brake disc.

2. Insert the wheel axle.
3. Install the axle nut.
4. Lower the front wheel so that it is on the ground, and then put the sidestand down.
5. Tighten the axle nut and the wheel axle pinch bolts to their specified torques.

Tightening torques:

Axle nut:

63 Nm (6.3 m·kgf, 45 ft·lbf)

Wheel axle pinch bolt:

23 Nm (2.3 m·kgf, 17 ft·lbf)

6. Push down hard on the handlebar several times to check for proper fork operation.

Rear wheel

EAU25080

To remove the rear wheel

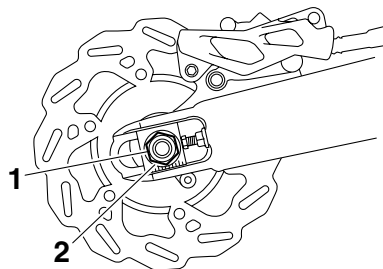
EAU45182

EWA10821



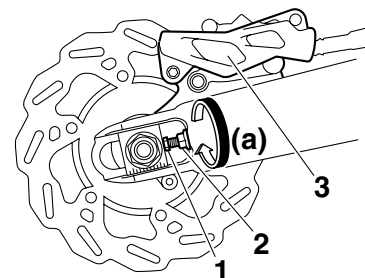
To avoid injury, securely support the vehicle so there is no danger of it falling over.

1. Loosen the axle nut.



1. Axle nut
2. Washer

2. Lift the rear wheel off the ground according to the procedure on page 7-39.
3. Remove the axle nut and washer.
4. Loosen the locknut on each side of the swingarm.



1. Drive chain slack adjusting bolt
2. Locknut
3. Brake caliper

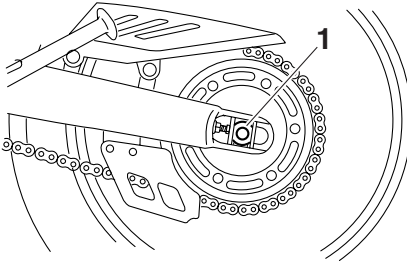
5. Turn the drive chain slack adjusting bolts fully in direction (a).
6. Push the wheel forward, and then remove the drive chain from the rear sprocket.

TIP

The drive chain does not need to be disassembled in order to remove and install the rear wheel.

7. While supporting the brake caliper, pull the wheel axle out.

PERIODIC MAINTENANCE AND ADJUSTMENT



1. Wheel axle

8. Remove the wheel. **NOTICE: Do not apply the brake after the wheel has been removed together with the brake disc, otherwise the brake pads will be forced shut.** [ECA11071]

EAU45191

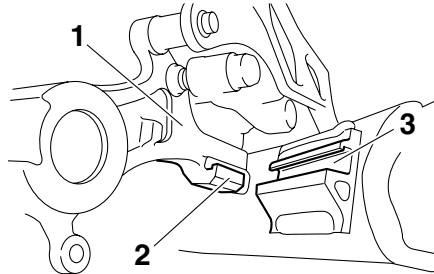
To install the rear wheel

1. Install the wheel and the brake caliper bracket by inserting the wheel axle from the left-hand side.

TIP

- Make sure that the retainer on the brake caliper bracket is inserted into the slot in the swingarm.

- Make sure that there is enough space between the brake pads before installing the wheel.



1. Brake caliper bracket
2. Retainer
3. Slot

2. Install the drive chain onto the rear sprocket.
3. Install the washer and the axle nut.
4. Lower the rear wheel so that it is on the ground, and then put the sidestand down.
5. Adjust the drive chain slack. (See page 7-28.)
6. Tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

125 Nm (12.5 m·kgf, 90 ft·lbf)

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU25871

Troubleshooting

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

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

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

EWA15141



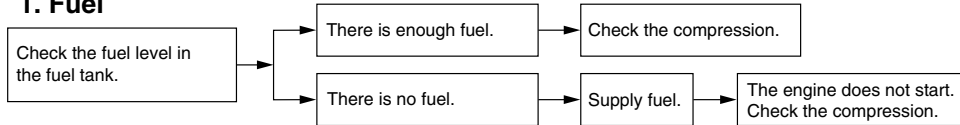
When checking the fuel system, do not smoke, and make sure there are no open flames or sparks in the area, including pilot lights from water

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

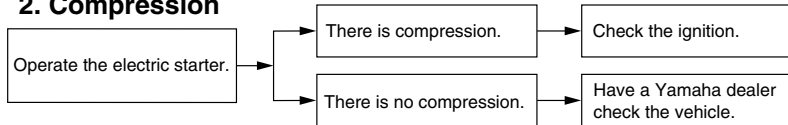
Troubleshooting charts

Starting problems or poor engine performance

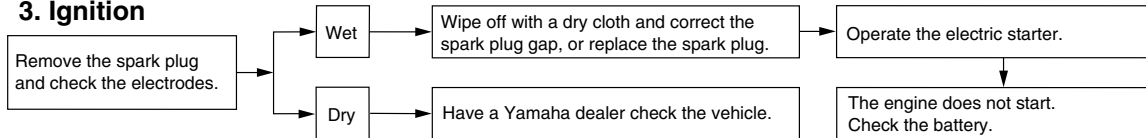
1. Fuel



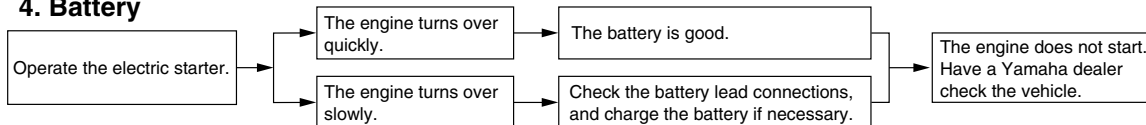
2. Compression



3. Ignition



4. Battery



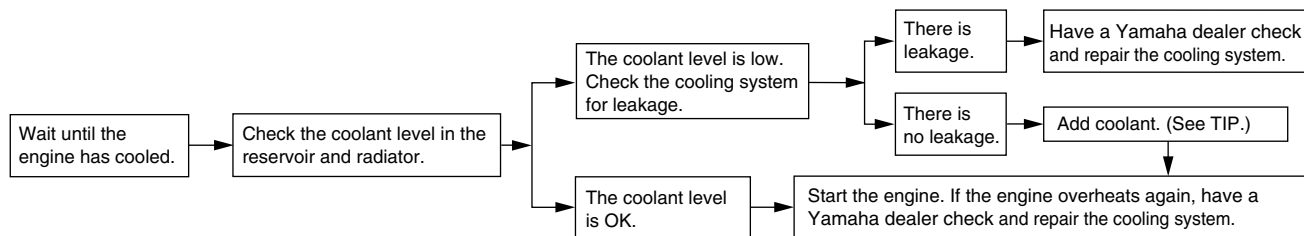
PERIODIC MAINTENANCE AND ADJUSTMENT

Engine overheating

EWA10400

WARNING

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



TIP

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

Matte color caution

EAU37833

ECA15192

NOTICE

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

Care

EAU26004

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 outlet 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 cap, are tightly installed.
3. Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such prod-

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

Cleaning

ECA10772

NOTICE

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.
- Improper cleaning can damage plastic parts (such as cowlings, panels, windshields, headlight lenses, meter lenses, etc.) and the mufflers. Use only a soft, clean cloth or sponge with water to clean plastic. However, if the plastic parts cannot be thoroughly cleaned with water, diluted mild detergent with water may be used. Be sure to rinse

MOTORCYCLE CARE AND STORAGE

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

- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.
- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and swing-arm bearings, fork and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.
- For motorcycles equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield.

Test the product on a small hidden part of the windshield to make sure that it does not leave any marks. If the windshield is scratched, use a quality plastic polishing compound after washing.

After normal use

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

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

Since sea salt or salt sprayed on roads during winter are extremely corrosive in combination with water, carry out the following steps after each ride in the rain, near the sea or on salt-sprayed roads.

TIP

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

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

After cleaning

1. Dry the motorcycle with a chamois or an absorbing cloth.
2. 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, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)

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.

EWA11131

WARNING

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

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

NOTICE

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

TIP

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

Storage

Short-term

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

ECA10810

NOTICE

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

Long-term

Before storing your motorcycle for several months:

1. Follow all the instructions in the "Care" section of this chapter.
2. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.

MOTORCYCLE CARE AND STORAGE

3. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - b. Pour a teaspoonful of engine oil into the spark plug bore.
 - c. Install the spark plug cap onto the spark plug, and then place the spark plug 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 wall with oil.)
 - e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap. **WARNING! To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.** [EWA10951]
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 outlet with a plastic bag to prevent moisture from entering it.
7. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 7-34.

TIP

Make any necessary repairs before storing the motorcycle.

Dimensions:

Overall length:
2110 mm (83.1 in)
Overall width:
810 mm (31.9 in)
Overall height:
1190 mm (46.9 in)
Seat height:
895 mm (35.2 in)
Wheelbase:
1425 mm (56.1 in)
Ground clearance:
WR25XZ 265 mm (10.43 in)
WR25XZC 260 mm (10.24 in)
Minimum turning radius:
2300 mm (90.6 in)

Weight:

With oil and fuel:
WR25XZ 136.0 kg (300 lb)
WR25XZC 137.0 kg (302 lb)

Engine:

Engine type:
Liquid cooled 4-stroke, DOHC
Cylinder arrangement:
Forward-inclined single cylinder
Displacement:
250 cm³
Bore × stroke:
77.0 × 53.6 mm (3.03 × 2.11 in)
Compression ratio:
11.80 :1
Starting system:
Electric starter

Lubrication system:

Wet sump

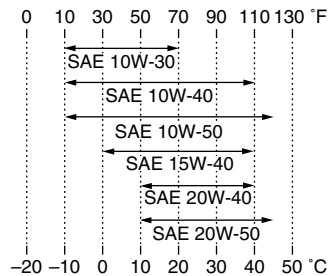
Engine oil:

Recommended brand:

YAMALUBE

Type:

SAE 10W-30, 10W-40, 10W-50, 15W-40,
20W-40 or 20W-50



Recommended engine oil grade:

API service SG type or higher, JASO
standard MA

Engine oil quantity:

Without oil filter element replacement:
1.30 L (1.37 US qt, 1.14 Imp.qt)
With oil filter element replacement:
1.40 L (1.48 US qt, 1.23 Imp.qt)

Cooling system:

Coolant reservoir capacity (up to the
maximum level mark):
0.25 L (0.26 US qt, 0.22 Imp.qt)
Radiator capacity (including all routes):
0.90 L (0.95 US qt, 0.79 Imp.qt)

Air filter:

Air filter element:
Wet element

Fuel:

Recommended fuel:
Premium unleaded gasoline only
Fuel tank capacity:
WR25XZ 7.6 L (2.01 US gal, 1.67 Imp.gal)
WR25XZC 7.2 L (1.90 US gal,
1.58 Imp.gal)
Fuel reserve amount:
2.1 L (0.55 US gal, 0.46 Imp.gal)

Fuel injection:

Throttle body:
ID mark:
WR25XZ 3D71 10
WR25XZC 32C3 00

Spark plug (s):

Manufacturer/model:
NGK/CR9EK
Spark plug gap:
0.6–0.7 mm (0.024–0.028 in)

Clutch:

Clutch type:
Wet, multiple-disc

Transmission:

Primary reduction system:
Spur gear
Primary reduction ratio:
78/25 (3.120)
Secondary reduction system:
Chain drive
Secondary reduction ratio:
42/13 (3.231)

SPECIFICATIONS

Transmission type:

Constant mesh 6-speed

Operation:

Left foot operation

Gear ratio:

1st:

37/14 (2.642)

2nd:

29/16 (1.813)

3rd:

29/22 (1.318)

4th:

26/25 (1.040)

5th:

24/27 (0.888)

6th:

22/28 (0.786)

Chassis:

Frame type:

Semi double cradle

Caster angle:

25.33 °

Trail:

76.0 mm (2.99 in)

Front tire:

Type:

With tube

Size:

110/70R17M/C 54H

Manufacturer/model:

BRIDGESTONE/BT090F RADIAL G

Rear tire:

Type:

With tube

Size:

140/70R17M/C 66H

Manufacturer/model:

BRIDGESTONE/BT090R RADIAL G

Loading:

Maximum load:

WR25XZ 185 kg (408 lb)

WR25XZC 184 kg (406 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:

200 kPa (2.00 kgf/cm², 29 psi)

Rear:

200 kPa (2.00 kgf/cm², 29 psi)

Loading condition:

WR25XZ 90–185 kg (198–408 lb)

WR25XZC 90–184 kg (198–406 lb)

Front:

200 kPa (2.00 kgf/cm², 29 psi)

Rear:

225 kPa (2.25 kgf/cm², 33 psi)

Front wheel:

Wheel type:

Spoke wheel

Rim size:

17M/C x MT3.00

Rear wheel:

Wheel type:

Spoke wheel

Rim size:

17M/C x MT4.00

Front brake:

Type:

Single 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:

270.0 mm (10.63 in)

Rear suspension:

Type:

Swingarm (link suspension)

Spring/shock absorber type:

Coil spring/gas-oil damper

Wheel travel:

265.0 mm (10.43 in)

Electrical system:

Ignition system:

TCl (digital)

Charging system:

AC magneto

Battery:

Model:

YTZ7S

Voltage, capacity:

12 V, 6.0 Ah

Headlight:

Bulb type:

Halogen bulb

Bulb voltage, wattage × quantity:

Headlight:

12 V, 60 W/55 W

Tail/brake light:

LED

Front turn signal/position light:

12 V, 21 W/5.0 W × 2

Rear turn signal light:

12 V, 21.0 W × 2

License plate light:

12 V, 5.0 W

Meter lighting:

EL (Electroluminescent)

Neutral indicator light:

LED

High beam indicator light:

LED

Turn signal indicator light:

LED

Fuel level warning light:

LED

Coolant temperature warning light:

LED

Engine trouble warning light:

LED

Fuses:

Main fuse:

30.0 A

Headlight fuse:

15.0 A

Signaling system fuse:

10.0 A

Ignition fuse:

7.5 A

Radiator fan fuse:

7.5 A

Fuel injection system fuse:

7.5 A

Backup fuse:

7.5 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:

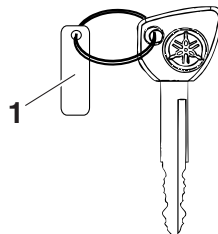
VEHICLE IDENTIFICATION
NUMBER:

MODEL LABEL INFORMATION:

○	
●	

Key identification number

EAU26381

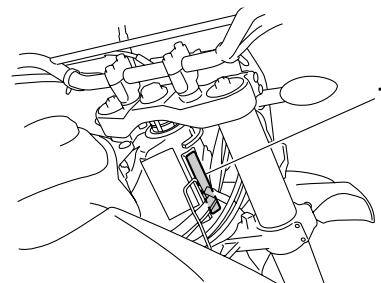


1. Key identification number

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

Vehicle identification number

EAU26400



1. Vehicle identification number

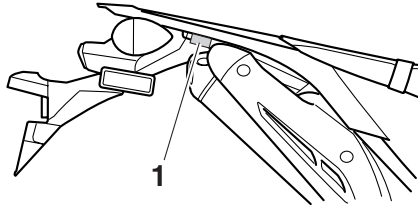
The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.

TIP

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

Model label

EAU26460

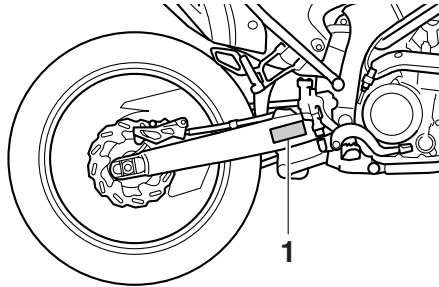


1. Model label

The model label is affixed to the location shown. Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

Vehicle Emission Control Information label

EAU48270



1. Vehicle Emission Control Information label

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

CONSUMER INFORMATION

EAU26551

Reporting safety defects

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

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

Motorcycle noise regulation

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

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

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

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

Exhaust system

- Muffler
- Exhaust pipe
- Silencer

Intake system

- Air cleaner case
- Air cleaner element
- Intake duct

CONSUMER INFORMATION

EAU26611

Maintenance record

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

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
600 mi (1000 km) or 1 month				
4000 mi (6000 km) or 6 months				
7000 mi (11000 km) or 12 months				
10000 mi (16000 km) or 18 months				
13000 mi (21000 km) or 24 months				
16000 mi (26000 km) or 30 months				
19000 mi (31000 km) or 36 months				
22000 mi (36000 km) or 42 months				
25000 mi (41000 km) or 48 months				

CONSUMER INFORMATION

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
28000 mi (46000 km) or 54 months				
31000 mi (51000 km) or 60 months				

CONSUMER INFORMATION

EAU26663

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

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

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

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

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

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

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

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

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

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

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

EMISSION CONTROL SYSTEM WARRANTY:

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

Engine Displacement	Period
Under 50cc	6,000 km (3,750 miles) or five years, whichever occurs first
50cc to 169cc	12,000 km (7,465 miles) or five years whichever occurs first
170cc to 279cc	18,000 km (11,185 miles) or five years, whichever occurs first
280cc and over	30,000 km (18,641 miles) or five years, whichever occurs first

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

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

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

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

WARRANTY QUESTIONS AND ANSWERS

Q. What costs are my responsibility during the warranty period?

A. The customer's responsibility includes all costs of normal maintenance services, non-warranty repairs, accident and collision damages, and oil, oil filters, air filters, spark plugs, and brake shoes.

Q. What are some examples of "abnormal" strain, neglect, or abuse?

A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high rpm, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transportation and/or tie-down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.

Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?

A. No. The warranty is limited to repair of the machine itself.

Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?

A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha motorcycle dealer.

Q. Will the warranty be void or cancelled if I do not operate or maintain my new motorcycle exactly as specified in the Owner's Manual?

A. No. The warranty on a new motorcycle cannot be "voided" or "cancelled." **However, if a particular failure is caused by operation or maintenance other than as described in the Owner's Manual, that failure may not be covered under warranty.**

Q. What responsibility does my dealer have under this warranty?

A. Each Yamaha motorcycle dealer is expected to:

1. Completely set up every new machine before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
3. Each Yamaha motorcycle dealer is held responsible for his setup, service and warranty repair work.

Q. Is the warranty transferable to second owners?

A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha motorcycle dealer for the policy to remain effective.

CUSTOMER SERVICE

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

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

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

CHANGE OF ADDRESS

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

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

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

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

YAMAHA EXTENDED SERVICE (Y.E.S.)

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

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. You get uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, 36 months or, on certain models, even 48 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drive train" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.
- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

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

CONSUMER INFORMATION

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

A special note:

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

Yamaha Service Marketing

P.O. Box 6555

Cypress, CA 90630

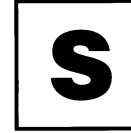
1-(866)-YES-EXTD (1-866-937-3983)



YAMAHA



EXTENDED



SERVICE

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PROTECT YOUR INVESTMENT

Use Genuine YAMAHA Parts And Accessories

See your Authorized YAMAHA Dealer for a Genuine YAMAHA Service Manual.



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