

A Read this manual carefully before operating this vehicle.

OWNER'S MANUAL YZF

YZFR1E(C)

2SG-28199-10

EAU10043

A WARNING

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

YAMAHA LIT-CALIF-65-01



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

INTRODUCTION

EAU10084

FWA10012

Congratulations on your purchase of the Yamaha YZFR1E(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.

VADNING

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

EAU10134

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

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

^{*}Product and specifications are subject to change without notice.

IMPORTANT MANUAL INFORMATION

EAU10194

YZFR1E(C)
OWNER'S MANUAL
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1st edition, June 2013
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Printed in Japan.
P/N LIT-11626-27-40

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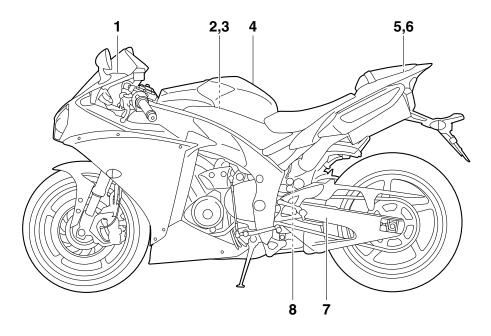
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EAU10385

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.



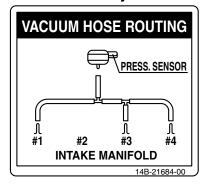
1

NOTICE

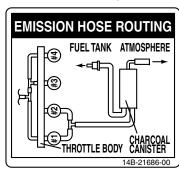
- Cleaning with alkaline or acid cleaner, gasoline or solvent will damage windshield.
- Use neutral detergent.

4B5-2815K-00

2 California only



3 California only



4

WARNING

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

PREMIUM UNLEADED GASOLINE ONLY 91 Min. Pump Octane (R+M)/2

4C8-2118K-00

5

LOAD LIMIT

1 kg {2 lbs}

4BR-24877-A0

6

A WARNING

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

3JJ-28446-A1

7

TIRE INFORMATION

Cold tire normal pressure should be set as follows.

• Up to 90 kg (198 lbs) load

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

• 90 kg (198 lbs)~maximum load

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

14B-21668-00

8

AWARNING

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

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

4AA-22259-80

A SAFETY INFORMATION

EAU1028B

Be a Responsible Owner

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

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

He or she should:

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

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

Safe Riding

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

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

pears to be very effective in reducing the chance of this type of accident.

Therefore:

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

A SAFETY INFORMATION

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

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

Protective Apparel

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

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

A SAFETY INFORMATION

Avoid Carbon Monoxide Poisoning

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

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

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

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

Loading

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

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit.

Operation of an overloaded vehicle could cause an accident.

Maximum load: 189 kg (417 lb) When loading within this weight limit, keep the following in mind:

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

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

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

Genuine Yamaha Accessories

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

Aftermarket Parts, Accessories, and Modifications

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

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

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

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

- 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 7-20 for tire specifications and more information on replacing your tires.

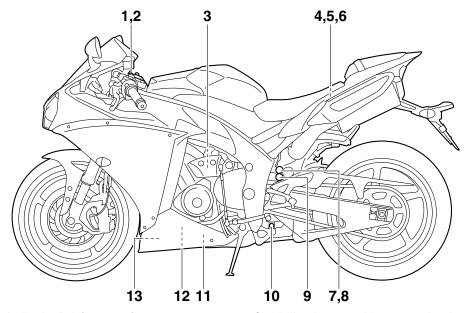
Transporting the Motorcycle

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

 Remove all loose items from the motorcycle.

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

Left view

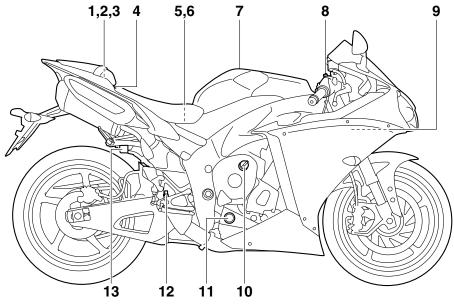


- 1. Front fork spring preload adjusting bolt (page 4-27)
- 2. Front fork compression damping force adjusting screw (page 4-27)
- 3. Coolant reservoir (page 7-15)
- 4. Fuel injection system fuse (page 7-35)
- 5. Main fuse (page 7-35)
- 6. Fuse box (page 7-35)
- 7. Shock absorber assembly compression damping force adjusting bolt (for fast compression damping) (page 4-29)

- 8. Shock absorber assembly compression damping force adjusting bolt (for slow compression damping) (page 4-29)
- 9. Shock absorber assembly spring preload adjusting screw (page 4-29)
- 10.Shock absorber assembly rebound damping force adjusting screw (page 4-29)
- 11. Engine oil drain bolt (page 7-13)
- 12. Coolant drain bolt (page 7-16)
- 13. Engine oil filter cartridge (page 7-13)

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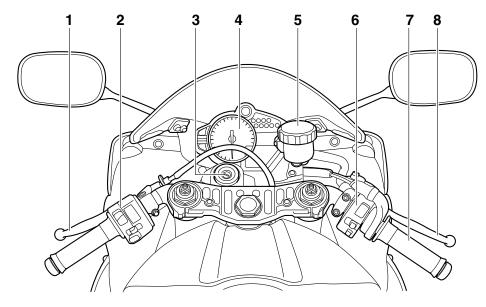
Right view



- 1. Storage compartment (page 4-26)
- 2. Luggage strap holder (page 4-32)
- 3. Helmet holder (page 4-25)
- 4. Seat lock (page 4-24)
- 5. Battery (page 7-33)
- 6. Owner's tool kit (page 7-2)
- 7. Fuel tank cap (page 4-21)
- 8. Front fork rebound damping force adjusting screw (page 4-27)

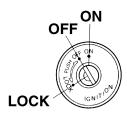
- 9. Radiator cap (page 7-15)
- 10. Engine oil filler cap (page 7-13)
- 11.Engine oil level check window (page 7-13)
- 12.Rear brake light switch (page 7-24)
- 13.Rear brake fluid reservoir (page 7-25)

Controls and instruments



- 1. Clutch lever (page 4-17)
- 2. Left handlebar switches (page 4-15)
- 3. Main switch/steering lock (page 4-1)
- 4. Multi-function meter unit (page 4-6)
- 5. Front brake fluid reservoir (page 7-25)
- 6. Right handlebar switches (page 4-15)
- 7. Throttle grip (page 7-19)
- 8. Brake lever (page 4-17)

Main switch/steering lock



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

ON

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

TIP

FAU10462

FAU10601

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

OFF

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

EWA10062

FAU10685

EAU10662

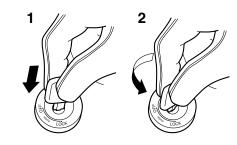
WARNING

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

LOCK

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

To lock the steering

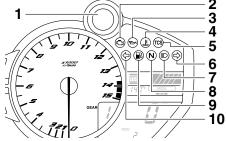


- 1. Push.
- 2. Turn.
 - 1. Turn the handlebars all the way to the left.
- 2. Push the key in from the "OFF" position, and then turn it to "LOCK" while still pushing it.
- 3. Remove the key.

- 1. Push.
- 2. Turn.

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

Indicator lights and warning lights



- 1. Shift timing indicator light
- 2. Engine trouble warning light "♣₺"
- 3. Oil level warning light "♣ "
- 4. Coolant temperature warning light " . . . "
- Traction control system indicator/warning light "TCS"
- 7. High beam indicator light "≣○"
- 8. Neutral indicator light " N "
- 9. Fuel level warning light "■"
- 10.Left turn signal indicator light "⟨¬"

EAU11031

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

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

EAU49394

Neutral indicator light "N"

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

EAU11081

FAU11061

High beam indicator light "≣⊙"

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

FAU11255

Oil level warning light " "

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

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

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

TIP

- Even if the oil level is sufficient, the warning light may flicker when riding on a slope or during sudden acceleration or deceleration, but this is not a malfunction.
- This model is also equipped with a self-diagnosis device for the oil level detection circuit. If a problem is detected in the oil level detection circuit, the following cycle will be repeated until the malfunction is corrected: The oil level warning light will flash ten times, then go off for 2.5 seconds. If this occurs, have a Yamaha dealer check the vehicle.

EAU11367

Fuel level warning light "■"

This warning light comes on when the fuel level drops below approximately 3.1 L (0.82 US gal, 0.68 Imp.gal). When this occurs, refuel as soon as possible. The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light should come on for a few seconds, and then go off.

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

TIP

This model is also equipped with a self-diagnosis device for the fuel level detection circuit. If a problem is detected in the fuel level detection circuit, the following cycle will be repeated until the malfunction is corrected: The fuel level warning light will flash eight times, and then go off for 3.0 seconds. If this occurs, have a Yamaha dealer check the vehicle.

Coolant temperature warning

light "₺"

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

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.

ECA10022

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 7-43 for further instructions.

Display		Conditions	What to do
Under 40 °C (Under 104 °F)	LO" MODE STO	Message "Lo" is displayed.	OK. Go ahead with riding.
40–116 °C (104–242 °F)	194° MODE STD MPH	Coolant temperature is displayed.	OK. Go ahead with riding.
Above 116 °C (Above 242 °F)	75 755 WOS CO CO (N) (D) (C) (D) (N) (D) (C)	Coolant temperature flashes. Warning light comes on.	Stop the engine and allow it to cool. (See page 7-43.)

Engine trouble warning light "🗗"

This warning light comes on or flashes if a problem is detected in the electrical circuit monitoring the engine. If this occurs, have a Yamaha dealer check the self-diagnosis system. (See page 4-12 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.

Traction control system indicator/warning light "TCS"

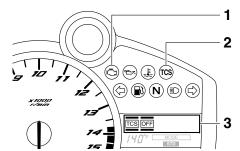
This indicator/warning light flashes when the traction control system engages.

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

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

When the traction control system is set to a "TCS" mode other than "OFF", and the traction control system is operating, the indicator light flashes.

If the traction control system disables while riding, "TCS OFF" is displayed, and the indicator/warning light and engine trouble warning light come on. (See page 4-18 for an explanation of the traction control system.)



- 1. Engine trouble warning light " 📇 "
- 2. Traction control system indicator/warning light "TCS"
- 3. Traction control system mode display

Try to reset the traction control system and the lights by following the procedures under "Resetting" on page 4-20.

EAU11575

Shift timing indicator light

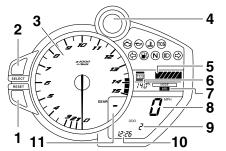
This indicator light can be set to come on and go off at the desired engine speeds and is used to inform the rider when it is time to shift to the next higher gear.

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

If the indicator light does not come on initially when the key is turned to "ON", or if the indicator light remains on, have a Yamaha dealer check the electrical circuit. (See page 4-12 for a detailed explanation of the function of this indicator light and on how to set it.)

EAU51835

Multi-function meter unit



- 1. "RESET" button
- 2. "SELECT" button
- 3. Tachometer
- 4. Shift timing indicator light
- 5. Traction control system mode display
- Coolant temperature display/air intake temperature display
- 7. Drive mode display
- 8. Speedometer
- Odometer/tripmeter/fuel reserve tripmeter/instantaneous fuel consumption display/average fuel consumption display
- 10.Clock/stopwatch
- 11. Transmission gear display

WARNING

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

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

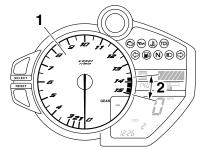
- a speedometer
- a tachometer
- an odometer
- two tripmeters (which show the distance traveled since they were last set to zero)
- a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on)
- a stopwatch
- a clock
- a coolant temperature display
- an air intake temperature display
- a transmission gear display
- a drive mode display (which shows the selected drive mode)
- a fuel consumption display (instantaneous and average consumption functions)
- a traction control system mode display (which shows the selected traction control system mode)

- a self-diagnosis device
- a display brightness and shift timing indicator light control mode

TIP

- Be sure to turn the key to "ON" before using the "SELECT" and "RE-SET" buttons, except for setting the display brightness and shift timing indicator light control mode.
- To switch the speedometer and odometer/tripmeter/fuel consumption displays between kilometers and miles, press the "SELECT" button for at least one second.

Tachometer



- 1. Tachometer
- 2. Tachometer red zone

The electric tachometer allows the rider to monitor the engine speed and keep it within the ideal power range. When the key is turned to "ON", the tachometer needle sweeps once across the r/min range and then returns to zero r/min in order to test the electrical circuit.

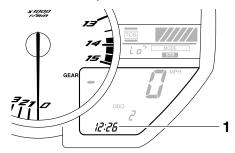
ECA10032

NOTICE

Do not operate the engine in the tachometer red zone.

Red zone: 13750 r/min and above

Clock and stopwatch modes



1. Clock/stopwatch

To set the clock

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

To display the stopwatch

To change the display to the stopwatch mode, push the "SELECT" button and "RESET" button together. To change the display back to the clock mode, push the "SELECT" button and "RESET" button together; however, this is not possible when the stopwatch is counting.

Standard measurement

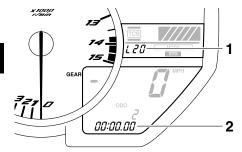
- 1. Push the "RESET" button to start the stopwatch.
- 2. Push the "SELECT" button to stop the stopwatch.
- 3. Push the "SELECT" button again to reset the stopwatch.

Split time measurement

- 1. Push the "RESET" button to start the stopwatch.
- Push the start switch "(**)" or "RE-SET" button to measure split times. Split times are displayed on the odometer display for five seconds.

 Push the start switch "(**)" or "RE-SET" button to display the final split time or push the "SELECT" button to stop the stopwatch and display the final split time.

Split time history



- Coolant temperature display/air intake temperature display
- 2. Stopwatch

The split time history displays up to 20 stored split times. The split time history can be displayed either in reverse chronological order or by speed.

 Push the "SELECT" button for at least one second to select the reverse chronological order mode; "L-20" displays on the stopwatch. Push the "SELECT" button again to select the speed mode; "F-20" displays on the stopwatch.

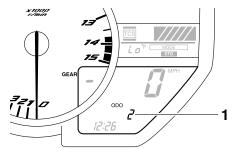
TIP

- Reverse chronological order mode: The split times are shown from the latest to earliest (i.e., L1, L2, L3, L4).
- Speed order mode: The split times are shown from the fastest to slowest (i.e., F1, F2, F3, F4).
- Push the "RESET" button. Depending on the selected split time,
 "L1" or "F1" displays on the coolant temperature display/air intake
 temperature display, and its corresponding stored split time displays on the stopwatch.
- 3. Push the "SELECT" button to switch the displayed split time in ascending order (i.e., 1, 2, 3, 4), and the "RESET" button to switch the displayed split time in descending order (i.e., 20, 19, 18, 17).

TIP

- To switch between the reverse chronological order mode and the speed mode, push the "SELECT" button for at least one second to cancel the currently selected mode, and then repeat step 1 to select the desired mode.
- To reset all the recorded times for the selected split time history, push the "RESET" button for at least one second.
- Push the "SELECT" button for at least one second to cancel the split time history and return to the time measurement.

Odometer, tripmeter, instantaneous fuel consumption and average fuel consumption modes



 Odometer/tripmeter/fuel reserve tripmeter/instantaneous fuel consumption display/average fuel consumption display

Push the "SELECT" button to switch the display between the odometer mode "ODO", the tripmeter modes "TRIP 1" and "TRIP 2", the instantaneous fuel consumption mode "km/L", "L/100 km" or "MPG", and the average fuel consumption mode "AVE_ _._ km/L", "AVE_ _._ L/100 km" or "AVE_ _._ MPG" in the following order:

ODO \rightarrow TRIP 1 \rightarrow TRIP 2 \rightarrow km/L, L/100 km or MPG \rightarrow AVE_ ... km/L, AVE_ ... L/100 km or AVE_ ... MPG \rightarrow ODO

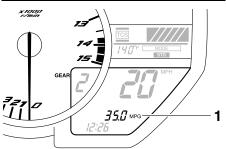
If the fuel level warning light comes on (see page 4-2), the display automatically changes to the fuel reserve tripmeter mode "TRIP F" and starts counting the distance traveled from that point. In that case, push the "SELECT" button to switch the display between the various tripmeter, odometer, instantaneous fuel consumption and average fuel consumption modes in the following order:

TRIP F \rightarrow km/L, L/100 km or MPG \rightarrow AVE_ _._ km/L, AVE_ _._ L/100 km or AVE_ _._ MPG \rightarrow ODO \rightarrow TRIP 1 \rightarrow TRIP 2 \rightarrow TRIP F

To reset a tripmeter, select it by pushing the "SELECT" button, and then push the "RESET" button for at least one second.

If you do not reset the fuel reserve tripmeter manually, it resets itself automatically and the display returns to the prior mode after refueling and traveling 5 km (3 mi).

Instantaneous fuel consumption mode



1. Instantaneous fuel consumption display

The instantaneous fuel consumption display can be set to either "km/L", "L/100 km" or "MPG".

- "km/L": The distance that can be traveled on 1.0 L of fuel under the current riding conditions is shown.
- "L/100 km": The amount of fuel necessary to travel 100 km under the current riding conditions is shown.

 "MPG": The distance that can be traveled on 1.0 US gal of fuel under the current riding conditions is shown.

To switch between the instantaneous fuel consumption displays, push the "SELECT" button for one second when one of the displays is shown.

TIP.

If traveling at speeds under 10 km/h (6.0 mi/h), "_ _._" is displayed.

Average fuel consumption mode



1. Average fuel consumption display

The average fuel consumption display can be set to either "AVE_ _._ km/L", "AVE_ _._ L/100 km" or "AVE_ _._ MPG".

This display shows the average fuel consumption since it was last reset.

- "AVE__._ km/L": The average distance that can be traveled on 1.0 L of fuel is shown.
- "AVE__._ L/100 km": The average amount of fuel necessary to travel 100 km is shown.
- "AVE__._ MPG": The average distance that can be traveled on 1.0 US gal of fuel is shown.

To switch between the average fuel consumption displays, push the "SE-LECT" button for one second when one of the displays is shown.

To reset the average fuel consumption display, select it by pushing the "SE-LECT" button, and then push the "RE-SET" button for at least one second.

TIP_

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

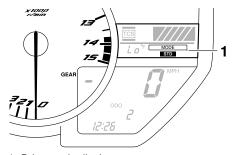
Transmission gear display



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

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

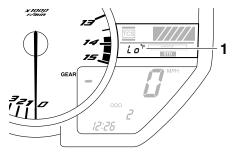
Drive mode display



1. Drive mode display

This display indicates which drive mode has been selected: "STD", "A" or "B". For more details on the modes and on how to select them, refer to pages 4-15 and 4-16.

Coolant temperature display



1. Coolant temperature display

The coolant temperature display indicates the temperature of the coolant.

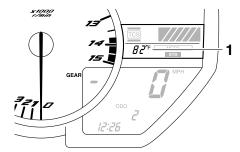
TIP

When the coolant temperature display is selected, "C" is displayed for one second, and then the coolant temperature is displayed.

NOTICE

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

Air intake temperature display



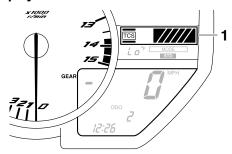
1. Air intake temperature display

The air intake temperature display indicates the temperature of the air drawn into the air filter case. Turn the key to "ON", and push the "RESET" button to switch the coolant temperature display to the air intake temperature display. Push the "RESET" button again to return to the coolant temperature display.

TIP

- Even if the air intake temperature is set to be displayed, the coolant temperature warning light comes on if the engine overheats.
- When the key is turned to "ON", the coolant temperature is automatically displayed, even if the air intake temperature was displayed prior to turning the key to "OFF".
- When the air intake temperature display is selected, "A" is displayed for one second, and then the air intake temperature is displayed.

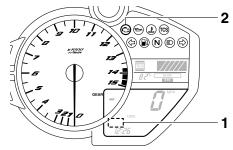
Traction control system mode display



1. Traction control system mode display

This display indicates which traction control system mode has been selected. For more details on the modes and on how to select them, refer to page 4-18.

Self-diagnosis device



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

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

If a problem is detected in any other circuit, the engine trouble warning light comes on and the display indicates an error code.

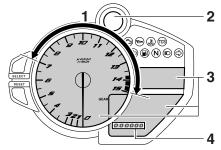
If the display indicates any error codes, note the code number, and then have a Yamaha dealer check the vehicle.

NOTICE

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

ECA11591

Display brightness and shift timing indicator light control mode



- 1. Shift timing indicator light activation range
- 2. Shift timing indicator light
- 3. Brightness adjustable displays
- 4. Brightness level display

This mode allows you to make changes to five settings by performing the following steps.

- 1. Turn the key to "OFF".
- 2. Push and hold the "SELECT" button.

- Turn the key to "ON", and then release the "SELECT" button after five seconds. The display brightness function is selected.
- Push the "SELECT" button to switch the functions in the order below.
 - a. Display brightness:
 This function allows you to adjust the brightness of the displays and tachometer to suit the outside lighting conditions.
 - Shift timing indicator light activity:
 - This function allows you to choose whether or not the indicator light should be activated and whether it should flash or stay on when activated.
 - c. Shift timing indicator light activation:
 - This function allows you to select the engine speed at which the indicator light is activated.
 - d. Shift timing indicator light deactivation:

This function allows you to select the engine speed at which the indicator light is deactivated.

e. Shift timing indicator light brightness:

This function allows you to adjust the brightness of the indicator light to suit your preference.

TIP

The display shows the current setting for each function, except the shift timing indicator light activity function.

To adjust the brightness of the multifunction meter displays and tachometer

- 1. Turn the key to "OFF".
- 2. Push and hold the "SELECT" button.
- 3. Turn the key to "ON", and then release the "SELECT" button after five seconds.
- 4. Push the "RESET" button to select the desired brightness level.

Push the "SELECT" button to confirm the selected brightness level.
 The control mode changes to the shift timing indicator light activity function.

To set the shift timing indicator light activity function

- Push the "RESET" button to select one of the following indicator light activity settings:
 - The indicator light stays on when activated. (This setting is selected when the indicator light stays on.)
 - The indicator light flashes when activated. (This setting is selected when the indicator light flashes four times per second.)
 - The indicator light is deactivated; in other words, it does not come on or flash. (This setting is selected when the indicator light flashes once every two seconds.)

Push the "SELECT" button to confirm the selected indicator light activity. The control mode changes to the shift timing indicator light activation function.

To set the shift timing indicator light activation function

TIP.

The shift timing indicator light activation function can be set between 7000 r/min and 15000 r/min. From 7000 r/min to 12000 r/min, the indicator light can be set in increments of 500 r/min. From 12000 r/min to 15000 r/min, the indicator light can be set in increments of 200 r/min.

- 1. Push the "RESET" button to select the desired engine speed for activating the indicator light.
- Push the "SELECT" button to confirm the selected engine speed.
 The control mode changes to the shift timing indicator light deactivation function.

To set the shift timing indicator light deactivation function

TIP

- The shift timing indicator light deactivation function can be set between 7000 r/min and 15000 r/min. From 7000 r/min to 12000 r/min, the indicator light can be set in increments of 500 r/min. From 12000 r/min to 15000 r/min, the indicator light can be set in increments of 200 r/min.
- Be sure to set the deactivation function to a higher engine speed than for the activation function, otherwise the shift timing indicator light remains deactivated.
- Push the "RESET" button to select the desired engine speed for deactivating the indicator light.
- Push the "SELECT" button to confirm the selected engine speed.
 The control mode changes to the shift timing indicator light brightness function.

To adjust the shift timing indicator light brightness

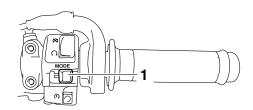
- Push the "RESET" button to select the desired indicator light brightness level.
- Push the "SELECT" button to confirm the selected indicator light brightness level. The display returns to the odometer or tripmeter mode.

FAU1234F

INSTRUMENT AND CONTROL FUNCTIONS

D-mode (drive mode)

D-mode is an electronically controlled engine performance system with three mode selections ("STD", "A", and "B"). Push the drive mode switch "MODE" to switch between modes. (See page 4-16 for an explanation of the drive mode switch.)



1. Drive mode switch "MODF"

TIP____

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

Mode "STD"

Mode "STD" is suitable for various riding conditions.

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

Mode "A"

EAU47633

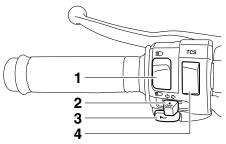
Mode "A" offers a sportier engine response in the low- to mid-speed range compared to mode "STD".

Mode "B"

Mode "B" offers response that is somewhat less sharp compared to mode "STD" for riding situations that require especially sensitive throttle operation.

Handlebar switches

Left



- 1. Dimmer switch "≣O/≣O"
- 2. Turn signal switch "⟨¬□/¬"
- 3. Horn switch " "
- 4. Traction control system switch "TCS"

- Engine stop switch "○/♥
- 2. Drive mode switch "MODE"
- 3. Start switch "(≶)"

Dimmer switch "≣○/≣○"

Set this switch to "≣O" for the high beam and to "≣O" for the low beam.

EAU12461

FAI 112401

Turn signal switch "⟨¬/¬;>"

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

Horn switch "►"

Press this switch to sound the horn.

Traction control system switch "TCS"

This switch is used to select the traction control system modes.

See "Traction control system" on page 4-18 for detailed information.

Engine stop switch "∩/⊠"

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

Start switch "®"

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

EAU12501

EAU51842

EAU12661

EAU12713

EAU417

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 malfunc-

Drive mode switch "MODE"

EAU47496 EWA15341

WARNING

tion.

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

Using this switch changes the drive mode to "STD", "A", or "B" in the following order:

 $\mathsf{STD} \to \mathsf{A} \to \mathsf{B} \to \mathsf{STD}$

The throttle grip must be completely closed in order to change the drive mode. (See page 4-15 for an explanation of each drive mode.)

TIP

- The mode is set to "STD" by default. The mode resets to "STD" when the key is turned to "OFF".
- The selected mode is shown on the drive mode display. (See page 4-10.)

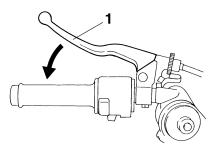
4

EAU33854

INSTRUMENT AND CONTROL FUNCTIONS

EAU12872

Clutch lever



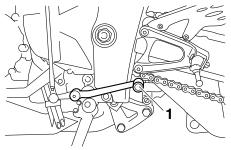
1. Clutch lever

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 4-33.)

Shift pedal

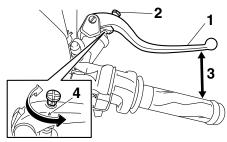
FAU12821



1. Shift pedal

The shift pedal is located on the left side of the motorcycle and is used in combination with the clutch lever when shifting the gears of the 6-speed constant-mesh transmission equipped on this motorcycle.

Brake lever



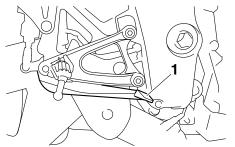
- 1. Brake lever
- 2. Brake lever position adjusting knob
- 3. Distance between brake lever and throttle grip
- 4. "△" mark

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

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

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

Brake pedal



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.

Traction control system

Traction control system

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

EWA15432

FAU51862

WARNING

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

TIP

- The traction control may engage when the vehicle travels over a bump.
- The rider may notice slight changes in engine and exhaust sounds when the traction control system is engaged.

There are six traction control system modes and an off mode.

	Display
OFF	TCS OFF
Mode 1	TCS
Mode 2	TCS
Mode 3	TCS
Mode 4	TCS
Mode 5	TCS
Mode 6	TCS

 "TCS" mode 1 provides for the least traction control system assist.

- "TCS" modes 2 through 6 provide for more traction control system assist. Mode 6 provides the most traction control system assist.
- "TCS OFF" mode turns the traction control system off. The system may also be automatically disabled in some riding conditions (see "Resetting" on page 4-20).

When the key is turned to "ON", the traction control system is enabled and the last mode selected displays in the multi-function meter.

All traction control system modes can be selected when the key is in the "ON" position. Modes 1 through 6 can also be selected when the vehicle is moving, however the throttle grip must be completely closed. The traction control system cannot be turned on or off while the vehicle is moving.

ECA16801

NOTICE

Use only the specified tires. (See page 7-20.) Using different sized tires will prevent the traction control system from controlling tire rotation accurately.

Setting the traction control system

WARNING

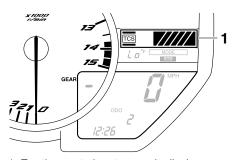
Changing settings while riding can distract the operator. Therefore, take extra precaution when changing modes while riding.

When the vehicle is stopped, push the upper side of the traction control system switch for at least two seconds to turn the traction control system off. Push the lower side of the switch to turn the traction control system on.

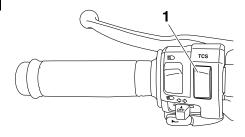
When the vehicle is stopped or while riding, close the throttle and push the lower side of the switch to change from modes 1 to 6. Close the throttle and push the upper side of the switch to change from modes 6 to 1.

TIP _____

The vehicle was set to "TCS" mode 6 at the time of manufacture.



1. Traction control system mode display



1. Traction control system switch "TCS"

Resetting

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

- Either the front wheel or rear wheel comes off the ground while riding
- Excessive rear wheel spinning

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

To reset the traction control system:

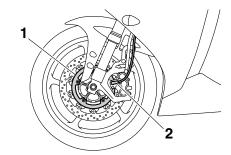
Turn the key to "OFF". Wait at least one second, then turn the key back to "ON". The traction control system indicator/warning light should go off and the system will be enabled. The engine trouble warning light should go off after the motorcycle reaches at least 20 km/h (12 mi/h). If the traction control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

FCA17732

NOTICE

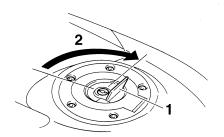
Keep any type of magnets (including magnetic pick-up tools, magnetic screwdrivers, etc.) away from the front wheel sensor or rotor; otherwise, the sensor or rotor may be damaged.

- resulting in improper performance of the traction control system.
- Be careful not to damage the sensor or rotor.



- 1. Front wheel sensor rotor
- 2. Front wheel sensor

Fuel tank cap



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

To open the fuel tank cap

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

To close the fuel tank cap

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

FAU13075

The fuel tank cap cannot be closed unless the key is in the lock. In addition,

the key cannot be removed if the cap is not properly closed and locked.

FWA11092

WARNING

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

Fuel

Make sure there is sufficient gasoline in the tank.

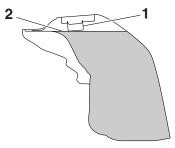
EWA10882

FAU13222

⚠ 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.



- 1. Fuel tank filler tube
- 2. Maximum fuel level
 - 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. [ECA10072]
 - 4. Be sure to securely close the fuel tank cap.

EWA15152

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.

EAU13383

Recommended fuel:

Premium unleaded gasoline (Gasohol (E10) acceptable)

Fuel tank capacity:

18.0 L (4.76 US gal, 3.96 Imp.gal)
Fuel reserve amount (when the fuel level warning light comes on):

3.1 L (0.82 US gal, 0.68 Imp.gal)

ECA11401

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

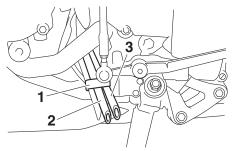
gasoline of a different brand. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

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.

EAU58150

Fuel tank breather hose and overflow hose



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

TIP_

For California: See page 7-12 for breather hose information.

Before operating the motorcycle:

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

 Make sure that the end of each hose is positioned outside of the cowling.

 Make sure that each hose is routed through the clamp.

Catalytic converter

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

EWA10863

FAU13434

№ 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.

FCA10702

NOTICE

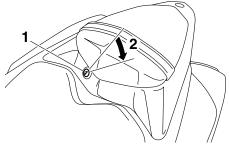
Use only unleaded gasoline. The use of leaded gasoline will cause unrepairable damage to the catalytic converter.

Seats

Passenger seat

To remove the passenger seat

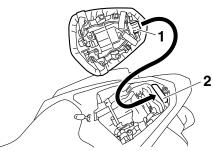
1. Insert the key into the seat lock, and then turn it clockwise.



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

To install the passenger seat

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



1. Projection

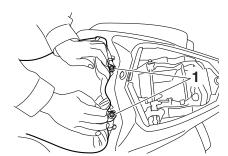
FAU47272

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

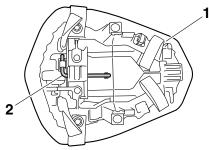
Rider seat

To remove the rider seat

- 1. Remove the passenger seat.
- 2. Pull up the corners on the rear of the rider seat as shown, remove the bolts with the hexagon wrench located on the bottom of the passenger seat, and then pull the seat off.



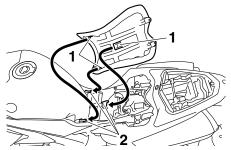
1. Bolt



- 1. Passenger seat
- 2. Hexagon wrench

To install the rider seat

 Insert the projections into the seat holders as shown, then place the seat in the original position.



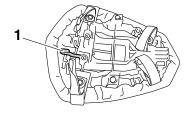
- 1. Projection
- 2. Seat holder
 - 2. Install the bolts with the hexagon wrench.
- Insert the hexagon wrench back into its holder on the passenger seat.
- 4. Install the passenger seat.

TIP

Make sure that the seats are properly secured before riding.

Helmet holder

EAU47531

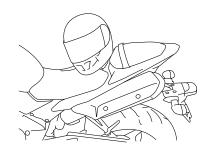


1. Helmet holder

The helmet holder is located on the bottom of the passenger seat.

To secure a helmet to the helmet holder

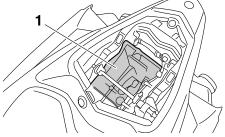
- 1. Remove the passenger seat. (See page 4-24.)
- 2. Attach the helmet to the helmet holder, and then securely install the passenger seat. WARNING! Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident. [EWA10162]



To release the helmet from the helmet holder

Remove the passenger seat, remove the helmet from the helmet holder, and then install the seat.

Storage compartment



1. Storage compartment

The storage compartment is located under the passenger seat. (See page 4-24.)

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

EWA10962

FAU14464

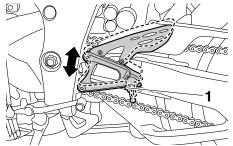
WARNING

 Do not exceed the load limit of 1 kg (2 lb) for the storage compartment. Do not exceed the maximum load of 189 kg (417 lb) for the vehicle.

Rider footrest position

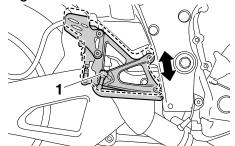
The rider footrests can be adjusted to one of two positions to suit the rider's preference. Have a Yamaha dealer adjust the position of the rider footrests.

Left side



1. Rider footrest

Right side

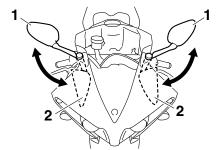


1. Rider footrest

Rear view mirrors

FAU47443

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



- 1. Riding position
- 2. Parking position

WARNING

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

Adjusting the front fork

EAU47622

EWA14671

ECA10102



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

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

NOTICE

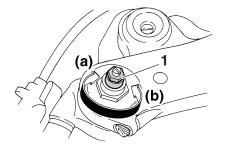
FWA14372

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

Spring preload

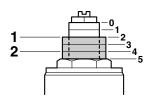
To increase the spring preload and thereby harden the suspension, turn the adjusting bolt on each fork leg in direction (a). To decrease the spring pre-

load and thereby soften the suspension, turn the adjusting bolt on each fork leg in direction (b).



1. Spring preload adjusting bolt

Align the appropriate groove on the adjusting mechanism with the top of the front fork collar.



- 1. Current setting
- 2. Front fork collar

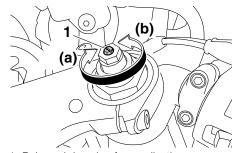
Spring preload setting: Minimum (soft): 0 Standard: 2 Maximum (hard):

Rebound damping force

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

TIP _____

Be sure to perform this adjustment on the right front fork leg.



1. Rebound damping force adjusting screw

Rebound damping setting:

Minimum (soft):

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

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

1 click(s) in direction (b)*

* With the adjusting screw fu

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

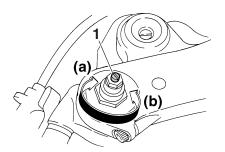
Compression damping force

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

compression damping force and thereby soften the compression damping, turn the adjusting screw in direction (b).

TIP

Be sure to perform this adjustment on the left front fork leg.



1. Compression damping force adjusting screw

Compression damping setting:

Minimum (soft):

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

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

1 click(s) in direction (b)*

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

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

Adjusting the shock absorber assembly

This shock absorber assembly is equipped with a spring preload adjusting screw, a rebound damping force adjusting screw, a compression damping force adjusting bolt (for fast compression damping) and a compression damping force adjusting bolt (for slow compression damping).

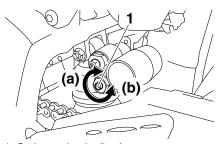
ECA10102

NOTICE

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

Spring preload

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



1. Spring preload adjusting screw

Spring preload setting:

Minimum (soft):

16 turn(s) in direction (b)* Standard:

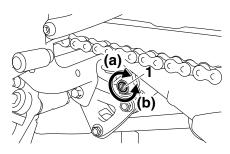
8 turn(s) in direction (b)* Maximum (hard):

0 turn(s) in direction (b)*

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

Rebound damping force

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



1. Rebound damping force adjusting screw

Rebound damping setting:

Minimum (soft):

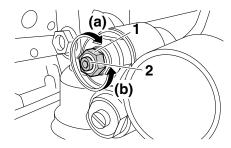
20 click(s) in direction (b)* Standard:

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

3 click(s) in direction (b)*

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

Compression damping force



- Compression damping force adjusting bolt (for fast compression damping)
- 2. Compression damping force adjusting bolt (for slow compression damping)

Compression damping force (for fast compression damping)

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

Compression damping setting (for fast compression damping):

Minimum (soft):

4 turn(s) in direction (b)* Standard:

3 turn(s) in direction (b)* Maximum (hard):

0 turn(s) in direction (b)*

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

Compression damping force (for slow compression damping)

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

Compression damping setting (for slow compression damping):

Minimum (soft):

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

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

1 click(s) in direction (b)*

* With the adjusting bolt 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.

FWA10222

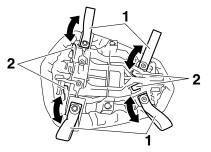
WARNING

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.

Luggage strap holders



- 1. Luggage strap holder
- 2. Hook

There are four luggage strap holders on the bottom of the passenger seat. To use the strap holders, remove the passenger seat. (See page 4-24.) Unhook the straps from the hooks, and then install the seat with the straps hanging out from under the passenger seat.

EAU15183

Sidestand

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

TIP_

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

EWA10242

EAU15306

this system regularly and have a Yamaha dealer repair it if it does not function properly.

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

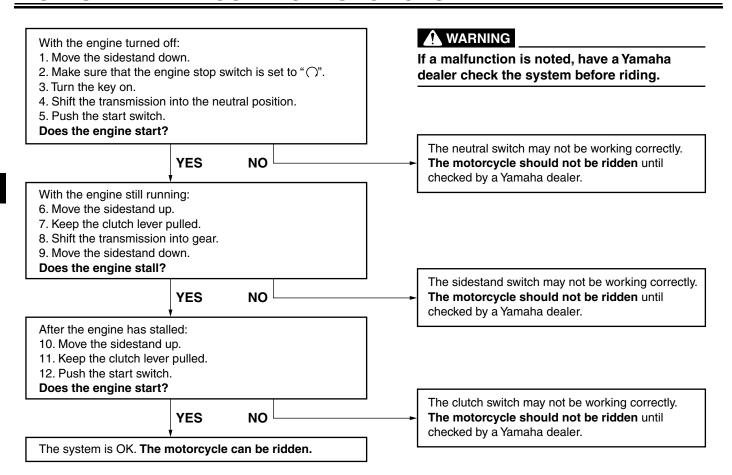
FAU4489

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.



FOR YOUR SAFETY - PRE-OPERATION CHECKS

EAU15598

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.

EWA11152

WARNING

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

Before using this vehicle, check the following points:

ITEM	CHECKS	PAGE
Fuel	Check fuel level in fuel tank. Refuel if necessary. Check fuel line for leakage. Check fuel tank breather hose and overflow hose for obstructions, cracks or damage, and check hose connections.	4-21, 4-23
Engine oil	 Check oil level in engine. If necessary, add recommended oil to specified level. Check vehicle for oil leakage. 	7-13
Coolant	 Check coolant level in reservoir. If necessary, add recommended coolant to specified level. Check cooling system for leakage. 	7-15
Front brake	Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system. Check brake pads for wear. Replace if necessary. Check fluid level in reservoir. If necessary, add specified brake fluid to specified level. Check hydraulic system for leakage.	7-24, 7-25

FOR YOUR SAFETY - PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Rear brake	Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system. Check brake pads for wear. Replace if necessary. Check fluid level in reservoir. If necessary, add specified brake fluid to specified level. Check hydraulic system for leakage.	7-24, 7-25
Clutch	Check operation. Lubricate cable if necessary. Check lever free play. Adjust if necessary.	7-23
Throttle grip	Make sure that operation is smooth. Check throttle grip free play. If necessary, have Yamaha dealer adjust throttle grip free play and lubricate cable and grip housing.	7-19, 7-29
Control cables	Make sure that operation is smooth. Lubricate if necessary.	7-29
Drive chain	Check chain slack. Adjust if necessary. Check chain condition. Lubricate if necessary.	7-27, 7-28
Wheels and tires	Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary.	7-20, 7-22
Brake and shift pedals	Make sure that operation is smooth. Lubricate pedal pivoting points if necessary.	7-29
Brake and clutch levers	Make sure that operation is smooth. Lubricate lever pivoting points if necessary.	7-30
Sidestand	Make sure that operation is smooth. Lubricate pivot if necessary.	7-31

FOR YOUR SAFETY - PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened. Tighten if necessary.	ı
Instruments, lights, signals and switches	Check operation. Correct if necessary.	_
Sidestand switch	Check operation of ignition circuit cut-off system. If system is not working correctly, have Yamaha dealer check vehicle.	4-32

EAU15952

EAU48711

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.

WA10272

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. If the engine stops, simply push the start switch 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:

FAU51871

- The transmission is in the neutral position.
- The transmission is in gear with the clutch lever pulled and the sidestand up.
 - See page 4-33 for more information.
- Turn the key to "ON" and make sure that the engine stop switch is set to "O".

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

- Oil level warning light
- Fuel level warning light
- Coolant temperature warning light
- Shift timing indicator light
- Engine trouble warning light
- Traction control system indicator/warning light

FAU16672

FCA11834

NOTICE

If a warning or indicator light does not come on initially when the key is turned to "ON", or if a warning or indicator light remains on, see page 4-2 for the corresponding warning and indicator light circuit check.

- 2. Shift the transmission into the neutral position. The neutral indicator light should come on. If not, ask a Yamaha dealer to check the electrical circuit.
- 3. Start the engine by pushing the start switch.

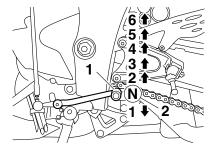
If the engine fails to start, release the start switch, wait a few seconds, and then try again. Each starting attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt.

ECA11043

NOTICE

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

Shifting



- 1. Shift pedal
- 2. Neutral position

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

The gear positions are shown in the illustration.

TIP

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

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.

FAU16682

FCA10261

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.

- 4. At the recommended shift points shown in the following table, close the throttle, and at the same time, quickly pull the clutch lever in.
- Shift the transmission into second gear. (Make sure not to shift the transmission into the neutral position.)
- 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.

EAU16701

To decelerate

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

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

FAU16741

Recommended shift points

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

Shift up points:

1st \rightarrow 2nd: 20 km/h (12 mi/h) 2nd \rightarrow 3rd: 30 km/h (19 mi/h) 3rd \rightarrow 4th: 40 km/h (25 mi/h) 4th \rightarrow 5th: 50 km/h (31 mi/h) 5th \rightarrow 6th: 60 km/h (37 mi/h)

Shift down points:

6th \rightarrow 5th: 25 km/h (16 mi/h) 5th \rightarrow 4th: 25 km/h (16 mi/h) 4th \rightarrow 3rd: 25 km/h (16 mi/h) 3rd \rightarrow 2nd: 25 km/h (16 mi/h) 2nd \rightarrow 1st: -

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.

EAU17084

FAU16842

0-1000 km (0-600 mi)

Avoid prolonged operation above 6900 r/min. *NOTICE:* After 1000 km (600 mi) of operation, the engine oil must be changed and the oil filter cartridge or element replaced. [ECATOSOS]

1000-1600 km (600-1000 mi)

Avoid prolonged operation above 8300 r/min.

FAU17214

EWA10312

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

NOTICE

ECA10311

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

TIP ___

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

Parking

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

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.

FAU17245

WARNING

EWA15123

EAU17303

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

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

EWA10322

Turn off the engine when performing maintenance unless otherwise specified.

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

EWA15461

WARNING

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

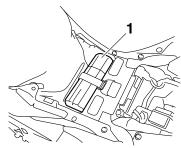
Emission controls not only function to ensure cleaner air, but are also vital to proper engine operation and maximum performance. In the following periodic maintenance charts, the services related to emissions control are grouped separately. These services require specialized data, knowledge, and equipment. 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.

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.

Owner's tool kit

EAU17362



1. Owner's tool kit

The owner's tool kit is located under the rider seat. (See page 4-24.) 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. How-

ever, 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.

TIF

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

Periodic maintenance chart for the emission control system

EAU17602

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

7

				INITIAL		ODO	METER READ	INGS	
No.		ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
6	*	Exhaust system	Check for leakage.Tighten if necessary.Replace gasket(s) if necessary.		V	V	V	√	V
7	*	Evaporative emission control system (for California only)	Check control system for damage. Replace if necessary.				V		√
8	*	Air induction system	Check the air cut-off valve, reed valve, and hose for damage. Replace any damaged parts if necessary.				V		√

EAU32189

General maintenance and lubrication chart

				INITIAL		ODO	METER READ	DINGS	
N	о.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
1	*	Air filter element	Replace.			Every 24000 i	mi (37000 km)		
2	*	Clutch	Check operation.Adjust or replace cable.	V	√	√	V	V	√
3	*	Front brake	Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary.	√	√	V	V	V	√
4	*	Rear brake	 Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary. 	√	√	√	√	V	√
5	*	Brake hoses	Check for cracks or damage. Check for correct routing and clamping.		√	√	√	V	√
			Replace.			Every 4	1 years		
6	*	Brake fluid	Replace.			Every 2	2 years		
7	*	Wheels	Check runout and for damage. Replace if necessary.		$\sqrt{}$	√	V	V	√
8	*	Tires	Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary.		V	V	V	٧	V
9	*	Wheel bearings	Check bearings for smooth operation. Replace if necessary.		√	√	V	V	√

				INITIAL		ODO	METER READ	DINGS	
N	о.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
10	*	Swingarm pivot	Check operation and for excessive play.		V	V	V	√	V
10		bearings	Moderately repack with lithium- soap-based grease.			Every 32000 i	mi (50000 km))	
11		Drive chain	Check chain slack, alignment and condition. Adjust and lubricate chain with a special O-ring chain lubricant thoroughly.	Every 500 mi (800 km) and after washing the motorcycle, riding in the rain o riding in wet areas					
		Steering bearings	Check bearing assemblies for looseness.	√	$\sqrt{}$	√	$\sqrt{}$	\checkmark	\checkmark
12	12 *		Moderately repack with lithium- soap-based grease.	Every 16000 mi (25000 km)					
13	*	Steering damper	Check operation and for oil leakage.		V	V	V	√	√
14	*	Chassis fasteners	Check all chassis fitting and fasteners. Correct if necessary.		√	√	V	V	√
15		Brake lever pivot shaft	Apply silicone grease lightly.		√	V	$\sqrt{}$	V	V
16		Brake pedal pivot shaft	Apply lithium-soap-based grease lightly.		V	V	V	V	V
17		Clutch lever pivot shaft	Apply lithium-soap-based grease lightly.		V	V	V	V	V
18		Shift pedal pivot shaft	Apply lithium-soap-based grease lightly.		V	V	V	V	√

				INITIAL		ODOI	METER READ	INGS	
N	о.	ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	16000 mi (25000 km) or 24 months	20000 mi (31000 km) or 30 months
19		Sidestand pivot	Check operation. Apply lithium-soap-based grease lightly.		√	V	V	√	√
20	*	Sidestand switch	Check operation and replace if necessary.	√	V	√	√	V	V
21	*	Front fork	Check operation and for oil leakage. Replace if necessary.		√	√	V	√	~
22	*	Shock absorber assembly	Check operation and for oil leakage. Replace if necessary.		V	√	V	1	√
23	*	Rear suspension link pivots	Check operation. Correct if necessary.			V		V	
24		Engine oil	Change (warm engine before draining).	V	√	√	√	√	V
25	*	Engine oil filter car- tridge	• Replace.	√		√		V	
26	*	Cooling system	Check hoses for cracks or damage. Replace if necessary.		√	V	√	√	√
			Change coolant.					V	
27	*	Front and rear brake switches	Check operation.	V	V	V	V	V	V
28	*	Control cables	Apply Yamaha cable lubricant or other suitable cable lubricant thoroughly.	√	√	V	V	V	V

				INITIAL	ODOMETER READINGS					
No.		ITEM	ROUTINE	600 mi (1000 km) or 1 month	4000 mi (7000 km) or 6 months	8000 mi (13000 km) or 12 months	12000 mi (19000 km) or 18 months	or	20000 mi (31000 km) or 30 months	
29	*	Throttle grip	Check operation. Check throttle grip free play, and adjust if necessary. Lubricate cable and grip housing.		V	V	V	V	√	
30	*	Lights, signals and switches	Check operation. Adjust headlight beam.	V	V	V	V	V	√	

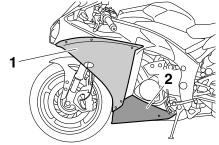
EAU17651

TIP_

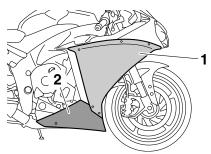
- Air filter
 - This model's air filter is equipped with a disposable oil-coated paper element, which must not be cleaned with compressed air to avoid damaging it.
 - The air filter element needs to be replaced more frequently when riding in unusually wet or dusty areas.
- Hydraulic brake service
 -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

Removing and installing cowlings

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



- 1. Cowling A
- 2. Cowling C



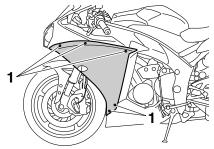
- 1. Cowling B
- 2. Cowling D

EAU55920

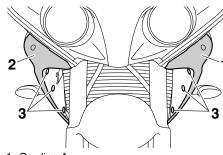
Cowlings A and B

To remove a cowling

1. Remove the quick fastener screws and the quick fasteners, and then take the cowling off.

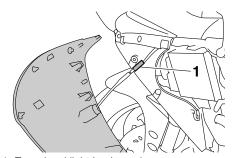


1. Quick fastener screw



- 1. Cowling A
- 2. Cowling B
- 3. Quick fastener
- 2. Disconnect the turn signal light lead coupler.

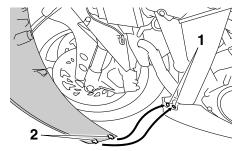
7



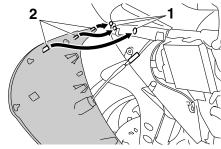
1. Turn signal light lead coupler

To install a cowling

- 1. Connect the turn signal light lead coupler.
- 2. Fit the projections on the cowling into the slots as shown.



- 1. Slot
- 2. Projection

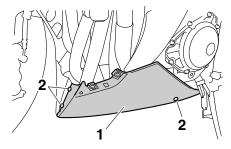


- 1. Slot
- 2. Projection
 - 3. Install the quick fasteners and the quick fastener screws.

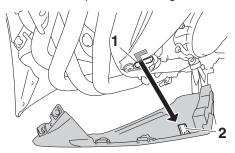
Cowlings C and D

To remove a cowling

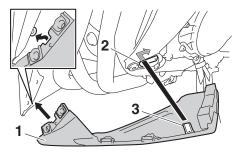
- Remove cowling A (if removing cowling C) or cowling B (if removing cowling D). (See page 7-9.)
- 2. Remove the quick fastener screws.



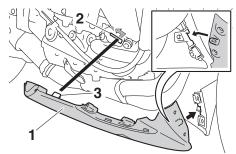
- 1. Cowling C
- 2. Quick fastener screw
 - 3. Slide the cowling forward to unhook its projection from the slot, and then pull the cowling off.



- 1. Slot
- 2. Projection



- 1. Cowling C
- 2. Slot
- 3. Projection



- 1. Cowling D
- 2. Slot
- 3. Projection

- Place the cowling in its original position, and then install the quick fastener screws.
- 3. Install cowling A or B.

EAU19653

Checking the spark plugs

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

The porcelain insulator around the center electrode of each spark plug should be a medium-to-light tan (the ideal color when the vehicle is ridden normally), and all spark plugs installed in the engine should have the same color. If any spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

If a spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

7

ECA10841

Specified spark plug: NGK/LMAR9E-J

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: 13 Nm (1.3 m·kgf, 9.4 ft·lbf)

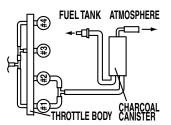
TIP

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

NOTICE

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

Canister (for California only)



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

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

FAU47282

Engine oil and oil filter cartridge

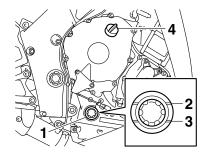
The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter cartridge replaced at the intervals specified in the periodic maintenance and lubrication chart.

To check the engine oil level

- Place the vehicle on a level surface and hold it in an upright position. A slight tilt to the side can result in a false reading.
- Start the engine, warm it up for several minutes, and then turn it off.
- Wait a few minutes until the oil settles, and then check the oil level through the check window located at the bottom-right side of the crankcase.

TIP

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

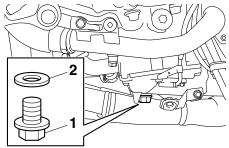


- 1. Engine oil level check window
- 2. Maximum level mark
- 3. Minimum level mark
- 4. Engine oil filler cap
 - If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.

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

- 1. Remove cowlings C and D. (See page 7-9.)
- 2. Start the engine, warm it up for several minutes, and then turn it off.
- 3. Place an oil pan under the engine to collect the used oil.

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

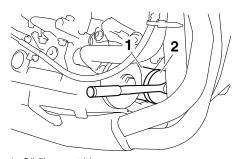


- 1. Engine oil drain bolt
- Gasket

TIP_

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

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

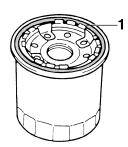


- 1. Oil filter cartridge
- 2. Oil filter wrench

TIP _____

An oil filter wrench is available at a Yamaha dealer.

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

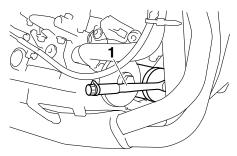


1. O-ring

TIP

Make sure that the O-ring is properly seated.

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



1. Torque wrench

Tightening torque:

Oil filter cartridge: 17 Nm (1.7 m·kgf, 12 ft·lbf)

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

Tightening torque:

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

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

Recommended engine oil:

See page 9-1.

Oil quantity:

Without oil filter cartridge replacement:

3.73 L (3.94 US qt, 3.28 Imp.qt) With oil filter cartridge replacement: 3.93 L (4.15 US qt, 3.46 Imp.qt)

TIP ____

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

FCA11621

NOTICE

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

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

TIP _____

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

NOTICE

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

- 11. Turn the engine off, wait a few minutes until the oil settles, and then check the oil level and correct it if necessary.
- 12. Install the cowlings.

Coolant

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

EAU38174

EAU20071

To check the coolant level

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

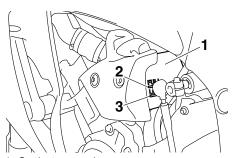
TIP _____

ECA10402

- 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.

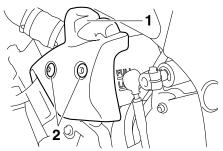
TIP _____

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

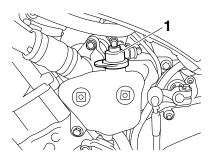


- 1. Coolant reservoir
- 2. Maximum level mark
- 3. Minimum level mark
- 3. If the coolant is at or below the minimum level mark, remove the coolant reservoir cover by removing the bolts, remove the coolant reservoir cap, and then add coolant to the maximum level mark. WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot. **IEWA151621 NOTICE:** If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine. If water has been used instead

of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion. If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced. IECA104731



- 1. Coolant reservoir cover
- 2. Bolt



1. Coolant reservoir cap

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

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

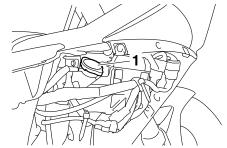
 Install the reservoir cap, and then install the coolant reservoir cover by installing the bolts.

EAU47304

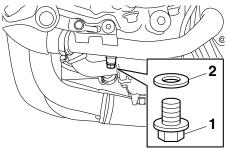
To change the coolant

- Place the vehicle on a level surface and let the engine cool if necessary.
- 2. Remove cowlings B and C. (See page 7-9.)
- 3. Place a container under the engine to collect the used coolant.

4. Remove the radiator cap. WARNING! Never attempt to remove the radiator cap when the engine is hot. [EWA10382]

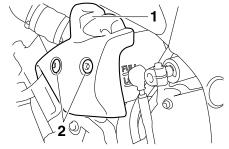


- 1. Radiator cap
 - Remove the coolant drain bolt and its gasket to drain the cooling system.

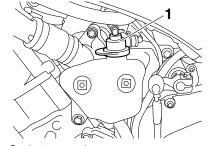


- 1. Coolant drain bolt
- 2. Gasket

Remove the coolant reservoir cover by removing the bolts, and then remove the coolant reservoir cap.

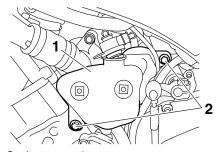


- 1. Coolant reservoir cover
- 2. Bolt



1. Coolant reservoir cap

 Remove the coolant reservoir by removing the bolts, and then turn the reservoir upside down to empty it.



- 1. Coolant reservoir
- 2. Bolt
 - 8. After the coolant is completely drained, thoroughly flush the cooling system with clean tap water.
 - 9. Install the coolant reservoir by installing the bolts.
- Install the coolant drain bolt and its new gasket, and then tighten the bolt to the specified torque.

Tightening torque:

Coolant drain bolt:

7 Nm (0.7 m·kgf, 5.1 ft·lbf)

7

EAU36765

PERIODIC MAINTENANCE AND ADJUSTMENT

- Pour the recommended coolant into the reservoir to the maximum level mark, and then install the coolant reservoir cap.
- 12. Pour the recommended coolant into the radiator until it is full.

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):

2.73 L (2.89 US qt, 2.40 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 radiator cap, start the engine, let it idle for several min-
- 14. 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.

utes, and then turn it off.

- 15. Start the engine, and then check the vehicle for coolant leakage. If coolant is leaking, have a Yamaha dealer check the cooling system.
- Install the coolant reservoir cover by installing the bolts.
- 17. Install the cowlings.

Air filter element

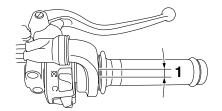
The air filter element must be replaced at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer replace the air filter element.

Checking the engine idling speed

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

Engine idling speed: 1150–1250 r/min

Checking the throttle grip free play



1. Throttle grip free play

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

Valve clearance

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.

FAU21402

EAU21759

Tires

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

Tire air pressure

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

EWA10504

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):

Up to 90 kg (198 lb) load:

Front:

250 kPa (2.50 kgf/cm², 36 psi)

Rear:

290 kPa (2.90 kgf/cm², 42 psi)

90 kg (198 lb) to maximum load:

Front:

250 kPa (2.50 kgf/cm², 36 psi)

Rear:

290 kPa (2.90 kgf/cm², 42 psi) **High-speed riding:**

Front:

250 kPa (2.50 kgf/cm², 36 psi)

Rear:

290 kPa (2.90 kgf/cm², 42 psi)

Maximum load*:

189 kg (417 lb)

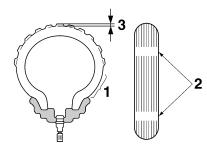
* Total weight of rider, passenger, cargo and accessories

EWA10512

WARNING

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

Tire inspection



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

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

Minimum tire tread depth (front and rear):

1.0 mm (0.04 in)

EWA10582

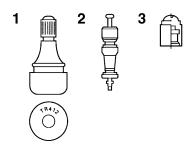
Tire information

It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately.

• The replacement of all wheeland brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience to do so.

WARNING

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



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

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

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

WARNING

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

FWA10482

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

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

FAU21963

PERIODIC MAINTENANCE AND ADJUSTMENT

Front tire:

Size:

120/70 ZR17M/C (58W) Manufacturer/model: DUNI OP/Qualifier II

Rear tire:

Size:

190/55 ZR17M/C (75W) Manufacturer/model: DUNI OP/Qualifier II

FRONT and REAR:

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

FWA10601

WARNING

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

- Use only the specified replacement tires. Other tires may run the danger of bursting at super high speeds.
- Brand-new tires can have a relatively poor grip on certain road surfaces until they have been "broken in". Therefore, it is advisable before doing any high-

speed riding to ride conservatively for approximately 100 km (60 mi) after installing a new tire.

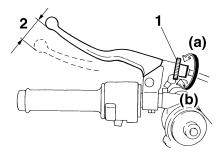
- The tires must be warmed up before a high-speed run.
- Always adjust the tire air pressure according to the operating conditions.

Cast wheels

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

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

Adjusting the clutch lever free play



- 1. Clutch lever free play adjusting bolt
- 2. Clutch lever free play

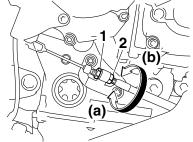
The clutch lever free play should measure 10.0–15.0 mm (0.39–0.59 in) as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows.

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

TIP

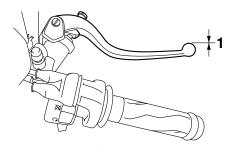
If the specified clutch lever free play cannot be obtained as described above, proceed as follows.

- 1. Fully turn the adjusting bolt at the clutch lever in direction (a) to loosen the clutch cable.
- Loosen the locknut at the crankcase.
- 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).



- 1. Locknut
- 2. Clutch lever free play adjusting nut
 - Tighten the locknut.

Checking the brake lever free play



1. No brake lever free play

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

FWA14212

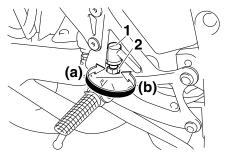
WARNING

A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the vehicle. Air in the hydraulic system will diminish the

EAU22274

braking performance, which may result in loss of control and an accident.

Brake light switches



- 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).

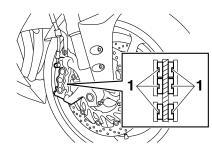
EAU22393

Checking the front and rear brake pads

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

Front brake pads





1. Brake pad wear indicator groove

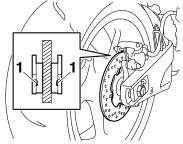
The front brake calipers are equipped with two sets of brake pads.

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

point that a wear indicator groove almost appears, have a Yamaha dealer replace the brake pads as a set.

EAU46292

Rear brake pads



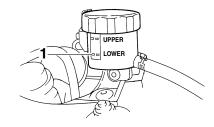
1. Brake pad wear indicator groove

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

Checking the brake fluid level

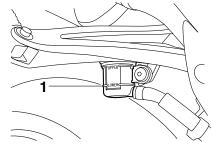
Before riding, check that the brake fluid is above the minimum level mark. Check the brake fluid level with the top of the reservoir level. Replenish the brake fluid if necessary.

Front brake



1. Minimum level mark

Rear brake



1. Minimum level mark

Specified brake fluid: DOT 4

FWA15991

WARNING

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

- Insufficient brake fluid may allow air to enter the brake system, reducing braking performance.
- Clean the filler cap before removing. Use only DOT 4 brake fluid from a sealed container.

EAU22733

PERIODIC MAINTENANCE AND ADJUSTMENT

- Use only the specified brake fluid; otherwise, the rubber seals may deteriorate, causing leakage.
- Refill with the same type of brake fluid. Adding a brake fluid other than DOT 4 may result in a harmful chemical reaction.
- Be careful that water 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.

FCA17641

NOTICE

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

Changing the brake fluid

Have a Yamaha dealer change the brake fluid at the intervals specified in 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

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

EAU22775

FAU22762

To check the drive chain slack

 Place the motorcycle on the sidestand.

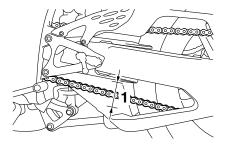
TIP __

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

- 2. Shift the transmission into the neutral position.
- 3. Measure the drive chain slack as shown.

Drive chain slack:

25.0–35.0 mm (0.98–1.38 in)



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

To adjust the drive chain slack

Consult a Yamaha dealer before adjusting the drive chain slack.

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

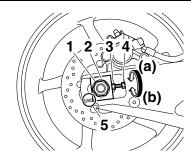
load the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits.

[ECA10572]

TIP_

EAU34318

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. Drive chain puller
- 3. Drive chain slack adjusting bolt
- 4. Locknut
- 5. Alignment marks

ECA10584

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

Tightening torques:

Axle nut: 150 Nm (15 m·kgf, 108 ft·lbf) Locknut: 16 Nm (1.6 m·kgf, 12 ft·lbf)

 Make sure that the drive chain pullers are in the same position, the drive chain slack is correct, and the drive chain moves smoothly. Cleaning and lubricating the drive chain

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

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. [ECA11122]
- 2. Wipe the drive chain dry.
- 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.

[ECA11112]

EAU23098

Checking and lubricating the cables

The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it. WARNING! Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions. [EWA10712]

Recommended lubricant:

Yamaha cable lubricant or other suitable cable lubricant

Checking and lubricating the throttle grip and cable

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

The throttle cable is equipped with a rubber cover. Make sure that the cover is securely installed. Even though the cover is installed correctly, it does not completely protect the cable from water entry. Therefore, use care not to pour water directly onto the cover or cable when washing the vehicle. If the cable or cover becomes dirty, wipe clean with a moist cloth.

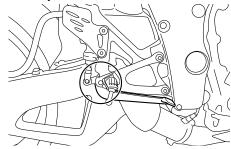
EAU23115

Checking and lubricating the brake and shift pedals

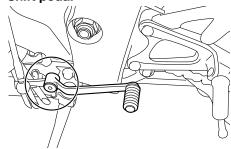
FAU44275

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

Brake pedal



Shift pedal



Recommended lubricant:

Lithium-soap-based grease

Checking and lubricating the brake and clutch levers

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

Recommended lubricants:

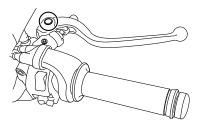
Brake lever:

Silicone grease

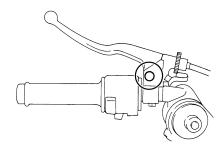
Clutch lever:

Lithium-soap-based grease

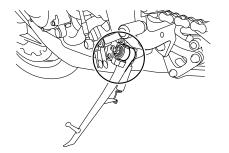
Brake lever



Clutch lever



Checking and lubricating the sidestand



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

EWA10732

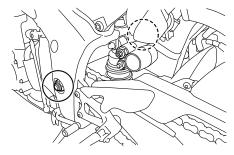
WARNING

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



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

v- 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.

FAU23273

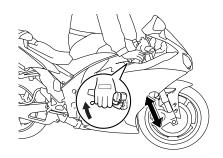
To check the condition

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

To check the operation

- Place the vehicle on a level surface and hold it in an upright position. WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over. [EWA10752]
- While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

FAU23284



ECA10591

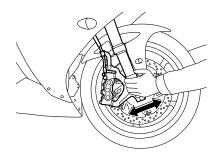
NOTICE

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

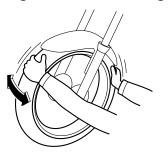
Checking the steering

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.

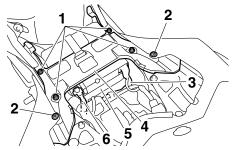
- 1. Place a stand under the engine to raise the front wheel off the ground. (See page 7-40 for more information.) WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over. [EWA10752]
- Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.



Checking the wheel bearings



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



- 1. Bolt
- 2. Quick fastener screw
- 3. Positive battery lead (red)
- 4. Battery cover
- 5. Battery
- 6. Negative battery lead (black)

The battery is located under the rider seat. (See page 4-24.)

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

EAU51961

NARNING

EWA10761

- 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
 - EXTERNAL: Flush with plenty of water.

working near batteries. In case of contact, administer the fol-

lowing FIRST AID.

- 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.

FCA16522

 KEEP THIS AND ALL BATTER-IES OUT OF THE REACH OF CHILDREN.

FWA16091

WARNING

Remove the battery cover by removing the bolts and the quick fastener screws before servicing the battery. The cover material can conduct electricity. If the cover has not been removed, touching the cover and the battery positive terminal at the same time with a tool will cause a short circuit and sparks.

To charge the battery

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

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

To store the battery

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

[ECA16303]

- If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
- 3. Fully charge the battery before installation. *NOTICE:* When installing the battery, be sure the key is turned to "OFF", then connect the positive lead before connecting the negative lead. [ECA16841]

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

ECA16531

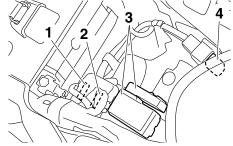
NOTICE

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

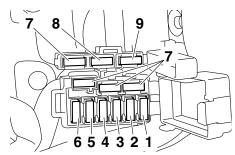
FAU49825

Replacing the fuses

The main fuse, the fuel injection system fuse, and the fuse boxes, which contain the fuses for the individual circuits, are located under the rider seat. (See page 4-24.)



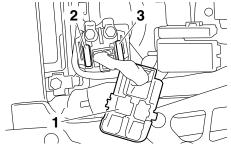
- 1. Fuel injection system fuse
- 2. Fuel injection system spare fuse
- 3. Fuse box
- 4. Main fuse



- 1. Ignition fuse
- 2. Signaling system fuse
- 3. Electronic throttle valve fuse
- 4. Backup fuse (for clock)
- 5. Right radiator fan fuse
- 6. Left radiator fan fuse
- 7. Spare fuse
- 8. Steering damper fuse
- 9. Headlight fuse

TIP

To access the fuel injection system fuse, remove the starter relay cover by pulling it upward.



- 1. Starter relay cover
- 2. Fuel injection system fuse
- 3. Fuel injection system spare fuse

If a fuse is blown, replace it as follows.

- 1. Turn the key to "OFF" and turn off the electrical circuit in question.
- Remove the blown fuse, and then install a new fuse of the specified amperage. WARNING! Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire. [EWA15132]

Specified fuses:

Main fuse:

50.0 A

Headlight fuse:

20.0 A

Signaling system fuse:

10.0 A

Ignition fuse:

15.0 A

Radiator fan fuse:

 $10.0 A \times 2$

Steering damper fuse:

7.5 A

Fuel injection system fuse:

15.0 A

Backup fuse:

7.5 A

Electronic throttle valve 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 the fuse immediately blows again, have a Yamaha dealer check the electrical system.

Replacing a headlight bulb

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

ECA10651

FAU39014

NOTICE

Take care not to damage the following parts:

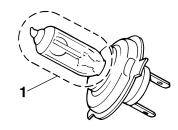
Headlight bulb

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

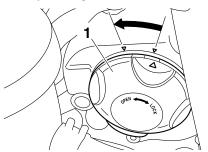
Headlight lens

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

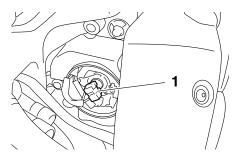
Do not use a headlight bulb of a wattage higher than specified.



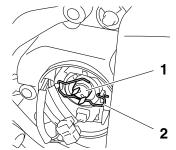
- 1. Do not touch the glass part of the bulb.
 - 1. Remove the headlight bulb cover by turning it counterclockwise.



- 1. Headlight bulb cover
 - 2. Disconnect the headlight coupler.



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



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

- 5. Connect the headlight coupler.
- 6. Install the headlight bulb cover by turning it clockwise.
- 7. Have a Yamaha dealer adjust the headlight beam if necessary.

light

EAU24182

Tail/brake light

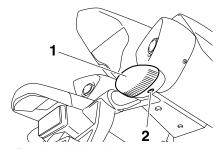
This model is equipped with an LED-type tail/brake light.

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

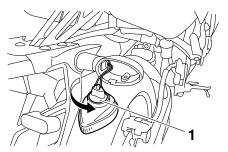
Replacing a turn signal light bulb

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

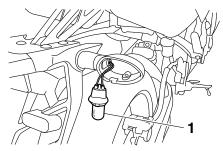
FAU43006



- 1. Turn signal light unit
- 2. Screw
 - Remove the turn signal light bulb socket (together with the bulb) by turning it counterclockwise.



- 1. Turn signal light bulb socket
 - 3. Remove the burnt-out bulb by pulling it out.



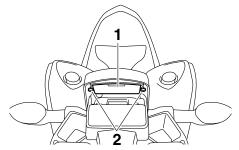
- 1. Turn signal light bulb
 - 4. Insert a new bulb into the socket.
 - 5. Install the socket (together with the bulb) by turning it clockwise.

 Install the turn signal light unit by installing the screw. NOTICE: Do not overtighten the screw, otherwise the lens may break.

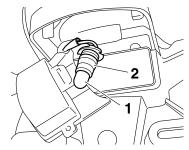
FAU24314

Replacing the license plate light bulb

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

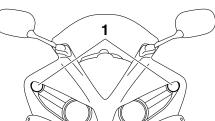


- 1. License plate light unit
- 2. Screw
- 2. Remove the license plate light bulb socket (together with the bulb) by pulling it out.



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

Auxiliary light



EAU54501

1. Auxiliary light

This model is equipped with LED-type auxiliary lights.

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

EAU24351

Supporting the motorcycle

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

To service the front wheel

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

To service the rear wheel

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

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

Troubleshooting

EAU25872

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.

EWA15142

WARNING

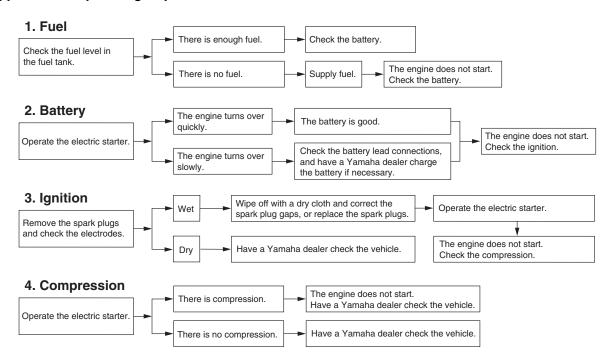
When checking the fuel system, do not smoke, and make sure there are no open flames or sparks in the area, including pilot lights from water

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

Troubleshooting charts

EAU42505

Starting problems or poor engine performance

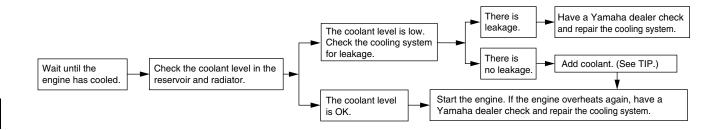


Engine overheating

EWAT1041

WARNING

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



TIP

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

FAU58090

Matte color caution

EAU37834

ECA15193

NOTICE

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

Care

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

Before cleaning

- 1. Cover the muffler outlets with a plastic bag after the engine has cooled down.
- 2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug caps, are tightly installed.
- 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

FCA15093

NOTICE

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

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

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

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

After normal use

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

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

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

TIP

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

- Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down. NOTICE: Do not use warm water since it increases the corrosive action of the salt. [CCA10792]
- After drying the motorcycle, apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces (except the titanium mufflers) to prevent corrosion.

Cleaning the windshield

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

using such cleaners, test an area of the windshield which does not affect your visibility and which cannot be easily recognized.

Cleaning the titanium mufflers

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

- Use only a soft, clean cloth or sponge with mild detergent and water to clean the titanium mufflers. However, if the mufflers cannot be thoroughly cleaned with mild detergent, alkaline products and a soft brush may be used.
- Never use compounds or other special treatments to clean the titanium mufflers, as they will remove the finish on the outer surface of the mufflers.
- Even the smallest amounts of oil, such as from oily towels or fingerprints, will leave stains on the titanium mufflers, which can be removed with a mild detergent.

 Note that the thermally induced discoloring of the portion of the exhaust pipe leading into the titanium mufflers is normal and cannot be removed.

After cleaning

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

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.

ECA10801

FWA11132

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.

EAU26204

Storage

Short-term

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

ECA10811

NOTICE

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

Long-term

Before storing your motorcycle for several months:

1. Follow all the instructions in the "Care" section of this chapter.

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

[EWA10952]

- Remove the spark plug caps from the spark plugs, and then install the spark plugs and the spark plug caps.
- Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand.
- Check and, if necessary, correct the tire air pressure, and then lift the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
- 6. Cover the muffler outlets with plastic bags to prevent moisture from entering them.
- 7. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 7-33.

TIP_				
Make	any	necessary	repairs	befor
storing	the	motorcycle.		

SPECIFICATIONS

Dimensions:

Overall length:

2070 mm (81.5 in)

Overall width:

715 mm (28.1 in)

Overall height:

1130 mm (44.5 in)

Seat height:

835 mm (32.9 in)

Wheelbase:

1415 mm (55.7 in)

Ground clearance:

135 mm (5.31 in)

Minimum turning radius:

3500 mm (137.8 in)

Weight:

Curb weight:

206 kg (454 lb)

Engine:

Engine type:

Liquid cooled 4-stroke, DOHC

Cylinder arrangement:

Inline 4-cylinder

Displacement:

998 cm³

Bore \times stroke:

 $78.0 \times 52.2 \text{ mm} (3.07 \times 2.06 \text{ in})$

Compression ratio:

12.70:1

Starting system:

Electric starter

Lubrication system:

Wet sump

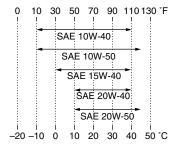
Engine oil:

Recommended brand:

YAMALUBE

Type:

SAE 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 cartridge replacement:

3.73 L (3.94 US qt, 3.28 Imp.qt)

With oil filter cartridge replacement: 3.93 L (4.15 US at. 3.46 Imp.at)

Cooling system:

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

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

Radiator capacity (including all routes):

2.73 L (2.89 US qt, 2.40 Imp.qt)

Air filter:

Air filter element:

Oil-coated paper element

Fuel:

Recommended fuel:

Premium unleaded gasoline (Gasohol (E10) acceptable)

Fuel tank capacity:

18.0 L (4.76 US gal, 3.96 Imp.gal)

Fuel reserve amount:

3.1 L (0.82 US gal, 0.68 Imp.gal)

Fuel injection:

Throttle body:

ID mark:

YZFR1E 1KB8 00 YZFR1FC 1KBC 10

Spark plug(s):

Manufacturer/model:

NGK/LMAR9E-J

Spark plug gap:

0.6-0.7 mm (0.024-0.028 in)

Clutch:

Clutch type:

Wet, multiple-disc

Transmission:

Primary reduction ratio:

1.512 (65/43)

Final drive:

Chain

Secondary reduction ratio:

2.765 (47/17)

Transmission type:

Constant mesh 6-speed

Operation:

Left foot operation

SPECIFICATIONS

Gear ratio:	Loading:	Front brake:
1st:	Maximum load:	Type:
2.533 (38/15)	189 kg (417 lb)	Dual disc brake
2nd:	(Total weight of rider, passenger, cargo	Operation:
2.063 (33/16)	and accessories)	Right hand operation
3rd:	Tire air pressure (measured on cold	Specified brake fluid:
1.762 (37/21)	tires):	DOT 4
4th:	Loading condition:	Rear brake:
1.522 (35/23)	0–90 kg (0–198 lb)	Type:
5th:	Front:	Single disc brake
1.364 (30/22)	250 kPa (2.50 kgf/cm², 36 psi)	Operation:
6th:	Rear:	Right foot operation
1.269 (33/26)	290 kPa (2.90 kgf/cm ² , 42 psi)	Specified brake fluid:
Chassis:	Loading condition:	DOT 4
Frame type:	90–189 kg (198–417 lb)	Front suspension:
Diamond	Front:	Type:
Caster angle:	250 kPa (2.50 kgf/cm², 36 psi)	Telescopic fork
24.00 °	Rear:	Spring/shock absorber type:
Trail:	290 kPa (2.90 kgf/cm², 42 psi)	Coil spring/oil damper
102 mm (4.0 in)	High-speed riding:	Wheel travel:
Front tire:	Front:	120.0 mm (4.72 in)
Type:	250 kPa (2.50 kgf/cm², 36 psi)	Rear suspension:
Tubeless	Rear:	Type:
Size:	290 kPa (2.90 kgf/cm², 42 psi)	Swingarm (link suspension
120/70 ZR17M/C (58W)	Front wheel:	Spring/shock absorber type:
Manufacturer/model:	Wheel type:	Coil spring/gas-oil damper
DUNLOP/Qualifier II	Cast wheel	Wheel travel:
Rear tire:	Rim size:	120.0 mm (4.72 in)
Type:	17M/C x MT3.50	Electrical system:
Tubeless	Rear wheel:	Ignition system:
Size:	Wheel type:	TCI
190/55 ZR17M/C (75W)	Cast wheel	Charging system:
Manufacturer/model:	Rim size:	AC magneto
DUNLOP/Qualifier II	17M/C x MT6.00	•

Fuel level warning light: LED

SPECIFICATIONS

Battery:	Coolant temperature warning light:
Model:	LED
YTZ10S	Engine trouble warning light:
Voltage, capacity:	LED
12 V, 8.6 Ah	Shift timing indicator light:
Headlight:	LED
Bulb type:	Traction control system indicator/warning
Halogen bulb	light:
Bulb voltage, wattage × quantity:	LED
Headlight:	Fuses:
12 V, 55.0 W × 2	Main fuse:
Tail/brake light:	50.0 A
I FD	Headlight fuse:
Front turn signal/position light:	20.0 A
12 V, 21.0 W/5.0 W × 2	Signaling system fuse:
Rear turn signal light:	10.0 A
12 V, 21.0 W × 2	Ignition fuse:
Auxiliary light:	15.0 A
LED	Radiator fan fuse:
License plate light:	10.0 A × 2
12 V, 5.0 W × 1	Fuel injection system fuse:
Meter lighting:	15.0 A
LED	Steering damper fuse:
Neutral indicator light:	7.5 A
LED	Backup fuse:
High beam indicator light:	7.5 A
LED	Electronic throttle valve fuse:
Oil level warning light:	7.5 A
LED	
Turn signal indicator light:	
LED	

EAU26354

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.

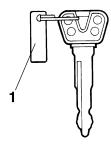
KEY IDENTIFICATION NUMBER:

VEHICLE IDENTIFICATION NUMBER:

MODEL LABEL INFORMATION:



Key identification number



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.

EAU26382

Vehicle identification number



FAU26401

1. Vehicle identification number

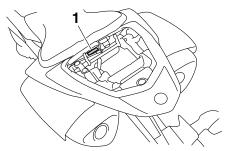
The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.

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.

EAU26521

Model label

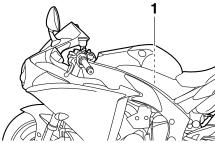


1. Model label

The model label is affixed to the frame under the passenger seat. (See page 4-24.) 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

EAU48541



1. Vehicle Emission Control Information label

The Vehicle Emission Control Information label is affixed on the air filter case cover. This label shows specifications related to exhaust emissions as required by federal law, state law and Environment Canada.

EAU26553

CONSUMER INFORMATION

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, 1200 New Jersey Avenue, SE, West Building, Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

EAU26561

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

EAU26633

Maintenance record

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EMISSION CONTROL SYSTEM WARRANTY:

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

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

EAU26664

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 MIPLIED. 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

- 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.
- Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
- Each Yamaha motorcycle dealer is held responsible for his setup, service and warranty repair work.
- Q. Is the warranty transferable to second owners?
- A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha motorcycle dealer for the policy to remain effective.

CUSTOMER SERVICE

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

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

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

CHANGE OF ADDRESS

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

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

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

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

FAU26752

CONSUMER INFORMATION

YAMAHA EXTENDED SERVICE (Y.E.S.)

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

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

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

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

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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