

A Read this manual carefully before operating this vehicle.

LIT-11626-29-52



OWNER'S MANUAL

2SW-F8199-11

EAU10043

AWARNING

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

EAU10093

Congratulations on your purchase of the Yamaha XC155G. 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 scooter. If you have any questions concerning the operation or maintenance of your scooter, please consult a Yamaha dealer.

The design and manufacture of this Yamaha scooter 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 scooter. 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 scooter and this manual. If there is any question concerning this manual, please consult a Yamaha dealer.

EWA12582

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

EAU10134

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

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.	
	A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.	
NOTICE	OTICE 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.

EAUT2192

XC155G	
OWNER'S MANUAL	
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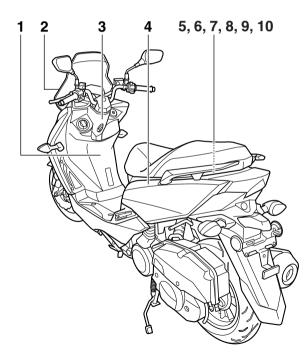
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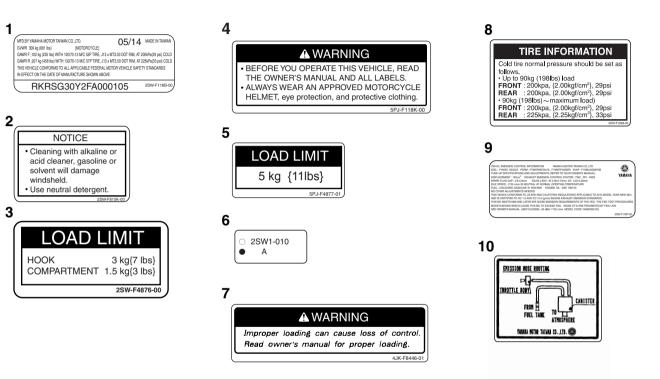
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U.S.A. 2015 AND LATER MODEL
SCOOTER LIMITED
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(Y.E.S.)

Index 10-1

1

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





Be a Responsible Owner

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

Scooters 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 scooter.

He or she should:

- Obtain thorough instructions from a competent source on all aspects of scooter 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 scooter without proper training or instruction. Take

a training course. Beginners should receive training from a certified instructor. Contact an authorized scooter dealer to find out about the training courses nearest you.

Safe Riding

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Perform the pre-operation checks each time you use the vehicle to make sure it is in safe operating condition. Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. See page 4-1 for a list of pre-operation checks.

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

Therefore:

· Wear a brightly colored jacket.

- Use extra caution when you are approaching and passing through intersections, since intersections are the most likely places for scooter accidents to occur.
- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Never maintain a scooter without proper knowledge. Contact an authorized scooter dealer to inform you on basic scooter maintenance. Certain maintenance can only be carried out by certified staff.
- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current driver's license.
 - Make sure that you are qualified and that you only lend your scooter to other qualified operators.
 - Know your skills and limits. Staying within your limits may help you to avoid an accident.
 - · We recommend that you prac-

¹

tice riding your scooter where there is no traffic until you have become thoroughly familiar with the scooter and all of its controls.

- Many accidents have been caused by error of the scooter 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 foot-rests during operation to maintain control of the scooter.
 - 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 scooter is designed for on-road use only. It is not suitable for off-road use.

Protective Apparel

The majority of fatalities from scooter 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, substantial shoes, trousers, gloves, etc., is effective in preventing or reducing abrasions or lacerations.
- Never wear loose-fitting clothes, otherwise they could catch on the

1-4

control levers or wheels and cause injury or an accident.

- Always wear protective clothing that covers your legs, ankles, and feet. The engine or exhaust system become very hot during or after operation and can cause burns.
- A passenger should also observe the above precautions.

Avoid Carbon Monoxide Poisoning

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

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

MENT.

- Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.
- 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 scooter can adversely affect stability and handling if the weight distribution of the scooter is changed. To avoid the possibility of an accident, use extreme caution when adding cargo or accessories to your scooter. Use extra care when riding a scooter 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 scooter: 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: 160 kg (353 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 scooter 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 scooter to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the scooter 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 pres-

sure of your tires.

- Never attach any large or heavy items to the handlebar, front fork, or front fender. Such items 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 scooter. 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 scooter due to aerodynamic effects. Wind may attempt to lift the scooter, or the scooter 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

sories exceed the capacity of the scooter's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

▲ Safety information

Aftermarket Tires and Rims

The tires and rims that came with your scooter were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort. Other tires, rims, sizes, and combinations may not be appropriate. Refer to page 6-18 for tire specifications and more information on replacing your tires.

Transporting the Scooter

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

- Remove all loose items from the scooter.
- Point the front wheel straight ahead on the trailer or in the truck bed, and choke it in a rail to prevent movement.
- Secure the scooter with tie-downs or suitable straps that are attached

<u>∧ Safety information</u>

to solid parts of the scooter, 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 tie-downs, if possible, so that the scooter will not bounce excessively during transport. EAU57600

Further safe-riding points

- Be sure to signal clearly when making turns.
- Braking can be extremely difficult on a wet road. Avoid hard braking, because the scooter could slide. Apply the brakes slowly when stopping on a wet surface.
- Slow down as you approach a corner or turn. Once you have completed a turn, accelerate slowly.
- Be careful when passing parked cars. A driver might not see you and open a door in your path.
- Railroad crossings, streetcar rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Slow down and cross them with caution. Keep the scooter upright, otherwise it could slide out from under you.
- The brake pads or linings could get wet when you wash the scooter. After washing the scooter, check the brakes before riding.
- Always wear a helmet, gloves, trousers (tapered around the cuff

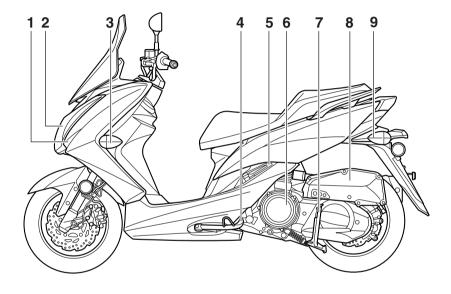
and ankle so they do not flap), and a brightly colored jacket.

 Do not carry too much luggage on the scooter. An overloaded scooter is unstable. Use a strong cord to secure any luggage to the carrier (if equipped). A loose load will affect the stability of the scooter and could divert your attention from the road. (See page 1-5.)

Description

EAU10411

Left view



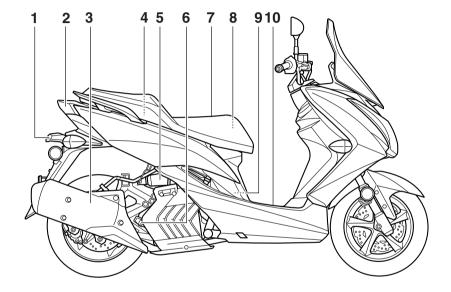
- 1. Auxiliary light (page 6-29)
- 2. Headlight (page 6-29)
- 3. Front turn signal light (page 6-30)
- 4. Sidestand (page 3-15)
- 5. Passenger footrest (page 3-12)
- 6. V-belt air filter case cover (page 6-16)
- 7. Centerstand (page 6-24)
- 8. Air filter (page 6-16)

9. Rear turn signal light (page 6-30)

2

Description

Right view



- 1. License plate light (page 6-30)
- 2. Tail/brake light (page 6-29)
- 3. Muffler (page 3-10)
- 4. Rear storage compartment (page 3-13)
- 5. Shock absorber assembly (page 3-14)
- 6. Oil filler cap (page 6-11)
- 7. Seat (page 3-11)
- 8. Helmet holder (page 3-12)

9. Spark plug (page 6-10)10.Coolant reservoir (page 6-14)

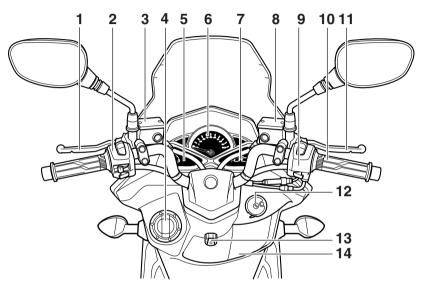
EAU10421

Description

EAU10431

2

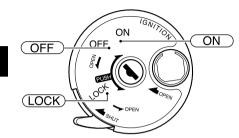
Controls and instruments



- 1. Rear brake lever (page 3-8)
- 2. Left handlebar switches (page 3-6)
- 3. Rear brake fluid reservoir (page 6-22)
- 4. Fuel tank cap (page 3-8)
- 5. Fuel gauge (page 3-4)
- 6. Tachometer (page 3-3)
- 7. Multi-function display (page 3-4)
- 8. Front brake fluid reservoir (page 6-22)

- 9. Right handlebar switches (page 3-6)
- 10.Throttle grip (page 6-18)
- 11.Front brake lever (page 3-7)
- 12.Main switch/steering lock (page 3-1)
- 13.Luggage hook (page 3-14)
- 14. Front storage compartment (page 3-13)

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.

TIP_

The main switch/steering lock is equipped with a keyhole cover. (See page 3-2.)

ON

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

TIP_

The headlight comes on automatically when the engine is started and stays on until the key is turned to "OFF" or the sidestand is moved down.

OFF

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

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EAU10662

A WARNING

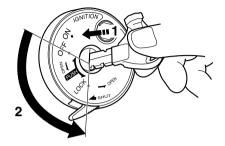
Never turn the key to "OFF" or "LOCK" while the vehicle is moving. Otherwise the electrical systems will be switched off, which may result in loss of control or an accident.

LOCK

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

To lock the steering



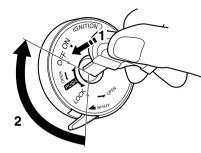
- 1. Push.
- 2. Turn.
- 1. Turn the handlebars all the way to the left.
- 2. With the key in the "OFF" position, push the key in and turn it to "LOCK".
- 3. Remove the key.

TIP_____

If the steering will not lock, try turning the handlebars back to the right slightly.

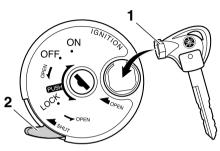
EAUT2112

To unlock the steering



- 1. Push.
- 2. Turn.
- 1. Insert the key.
- 2. With the key in the "LOCK" position, push the key in and turn it to "OFF".





- 1. Key bow
- 2. Keyhole cover lever

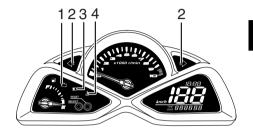
To open the keyhole cover

Insert the key bow into the keyhole cover receptacle as shown, and then turn the key to the right to open the cover.

To close the keyhole cover

Push the keyhole cover lever inward and the keyhole cover will close.

Indicator lights and warning lights



- 1. Engine trouble warning light " H_{\Box} "
- 2. Turn signal indicator light " \Leftrightarrow \Leftrightarrow "
- 3. High beam indicator light "≣⊖"
- 4. Coolant temperature warning light " 🛵 "

EAU11032

3

Turn signal indicator lights " \triangleleft " and " \ominus "

Each indicator light will flash when its corresponding turn signal lights are flashing.

EAU11081

High beam indicator light "≣⊖" This indicator light comes on when the high beam of the headlight is switched on. EAU11447

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

circuit.

NOTICE

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

TIP

3

- 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

6-33 for further instructions.

an electrical circuit monitoring the en-

gine is not working correctly. If this oc-

curs, have a Yamaha dealer check the

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

self-diagnosis system.

Tachometer



1. Tachometer

2. Red zone

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

When the key is turned to "ON", the tachometer needle will sweep once across the r/min range and then return to zero r/min in order to test the electrical circuit.

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NOTICE

Do not operate the engine in the tachometer red zone. Red zone: 9500 r/min and above

Engine trouble warning light "♂" This warning light flashes or stays on if

EAUT1936

3-3

Multi-function display

EAUT4391 with the following:

- a speedometer
- an odometer
- a tripmeter
- an oil change tripmeter
- an oil change indicator
- a clock

TIP

Be sure to turn the key to "ON" before using the "SELECT" and "RESET" buttons.

Odometer, tripmeter and oil change tripmeter modes

Push the "SELECT" button to switch the display among the odometer mode "ODO", the tripmeter mode "TRIP" and the oil change tripmeter mode "OIL CHANGE" in the following order:

 $ODO \rightarrow TRIP \rightarrow OIL CHANGE \rightarrow$ ODO

TIP

If the odometer, tripmeter, or oil change tripmeter modes indicates "-----", have a Yamaha dealer check the multi-function display.

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



Fuel gauge

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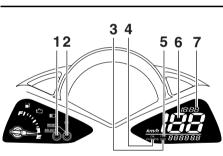
2. Red zone

The fuel gauge indicates the amount of fuel in the fuel tank. The needle moves towards "E" (Empty) as the fuel level decreases. When the needle reaches the red zone, refuel as soon as possible.

When the key is turned to "ON", the fuel gauge needle will sweep once to test the electrical circuit.

- 1. Select button
- 2. Reset button
- Odometer
- 4. Oil change tripmeter
- 5. Tripmeter
- 6. Speedometer
- 7. Clock

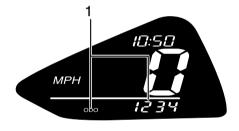
The multi-function display is equipped 3-4



Odometer mode

3

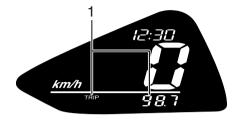
The odometer shows the total distance the vehicle has traveled. It cannot be reset. However, the odometer and tripmeter units can be switched between miles and kilometers by pushing the "SELECT" button for 1 second.

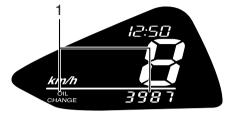


1. Odometer

Tripmeter mode

The tripmeter shows the distance traveled since it was last reset. If not reset after a trip, the displayed value will return to 0.0 after 9999.9 miles or kilometers have elapsed. To reset the tripmeter, push the "RESET" button for 1 second.





1. Tripmeter

Oil change tripmeter mode

The oil change tripmeter shows the distance traveled since the engine oil was last changed and this tripmeter was reset. To reset the oil change tripmeter (and the oil change indicator), push the "RESET" button for 1 second. Then, while the oil change indicator is flashing, push the "RESET" button for 3 seconds. The oil change tripmeter will reset and the oil change indicator will stop flashing. Push the "SELECT" button to start the oil change tripmeter and change the display to odometer mode. 1. Oil change tripmeter

Oil change indicator "OIL CHANGE"

The engine oil indicator will flash at the initial 1000 km (600 mi) and then at every 3000 km (1800 mi) thereafter to indicate that the engine oil should be changed.

After changing the engine oil, be sure to reset the oil change tripmeter because this indicator works in conjuntion with the oil change tripmeter and must be reset.

If the engine oil is changed before the oil change indicator flashes (i.e. before the periodic oil change interval has been reached), the oil change tripmeter must be reset in order for the next peri-

odic oil change to be indicated at the correct time.

the clock.

TIP_____

If the oil change tripmeter is reset before the initial 1000 km (600 mi), the periodic oil change interval will be at every 3000 km (1800 mi) thereafter.

Clock

The clock uses a 12-hour time system.

To set the clock:

- 1. Set the display to "ODO", then press the "RESET" button for at least three seconds.
- 2. When the hour digits start flashing, push the "SELECT" button to set the hours.
- 3. Push the "RESET" button, and the first minute digit will start flashing.
- 4. Push the "SELECT" button to set the first minute digit.
- 5. Push the "RESET" button and the second minute digit will start flashing.
- 6. Push the "SELECT" button to set the second minute digit.
- 7. Push the "RESET" button to start

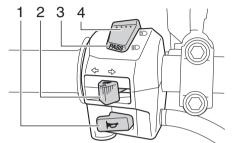
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TIP_____

If you do not push the "SELECT" or the "RESET" button within 30 seconds, the setting of the clock will not be completed and the display will change to "ODO" mode.

Handlebar switches

Left

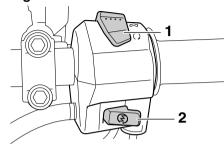


- 1. Horn switch "
- 2. Turn signal switch "<>/<>">
- 3. Pass switch "PASS"
- 4. Dimmer switch "≣O/≣O"

EAU1234H

Right

3



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

EAU12361

EAU12401

Pass switch "PASS"

Press this switch to flash the headlight.

Dimmer switch "≣⊖/≋⊖"

Set this switch to " \equiv_{O} " for the high beam and to " \equiv_{O} " for the low beam.

EAU12461

Turn signal switch " \triangleleft / \triangleleft >" To signal a right-hand turn, push this switch to " \dashv >". To signal a left-hand turn, push this switch to " \triangleleft ". 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.

EAU12661

EAU12501

Engine stop switch "∩/⊗"

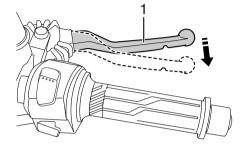
Set this switch to " \bigcirc " before starting the engine. Set this switch to " \bigotimes " to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck.

EAUM1133

Start switch "(s)"

Push this switch while applying the front or rear brake to crank the engine with the starter. See page 5-1 for starting instructions prior to starting the engine.

Front brake lever

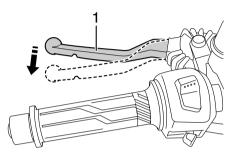


EAU12902

1. Front brake lever

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

Rear brake lever

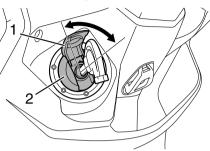


1. Rear brake lever

The rear brake lever is located on the left side of the handlebar. To apply the rear brake, pull this lever toward the handlebar grip.

Fuel tank cap

EAU12952



1. Fuel tank cap lock cover

2. Fuel tank cap

To open the fuel tank cap

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

To close the fuel tank cap

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

EAU13075

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.

EWA11092

3

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

Fuel

3

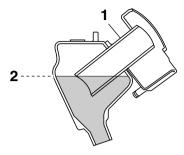
Make sure there is sufficient gasoline in the tank.

EWA10882

EAU13222

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

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



- 1. Fuel tank filler tube
- 2. Maximum fuel level
- 3. Wipe up any spilled fuel immediately. *NOTICE:* Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.[ECA10072]
- 4. Be sure to securely close the fuel tank cap.

EWA15152

Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.

EAU36085

Recommended fuel Unleaded gasoline only Fuel tank capacity: 7.4 L (1.95 US gal, 1.63 Imp.gal)

ECA11401

NOTICE

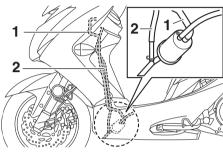
Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

Your Yamaha engine has been designed to use unleaded gasoline with a pump octane number [(R+M)/2] of 86 or higher, or a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

Gasohol

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

Fuel tank breather hose and overflow hose



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

Before operating the vehicle:

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

EAUT4250

Catalytic converter

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

EWA10863

3

EAU13434

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.

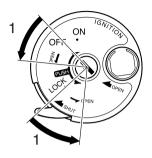
ECA10702

NOTICE

Use only unleaded gasoline. The use of leaded gasoline will cause unre-

pairable damage to the catalytic converter.

Seat



EAUT1504 To close the seat

- 1. Fold the seat down, and then push it down to lock it in place.
- 2. Remove the key from the main switch if the scooter will be left un-attended.

TIP_____

Make sure that the seat is properly secured before riding.

1. Turn.

To open the seat

- 1. Place the scooter on the centerstand.
- 2. Insert the key into the main switch, and then turn it counterclockwise to the first "OPEN" position. If the main switch is in the "LOCK" position, turn the key counterclockwise to the second "OPEN" position.

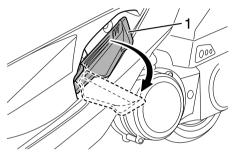
TIP___

Do not push inward when turning the key from "OFF" to "OPEN" or from "LOCK" to "OPEN".

3. Fold the seat up.

Passenger footrest

To use the passenger footrest, push the footrest inward and it will pop out as shown.

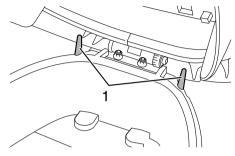


1. Passenger footrest

To retract the passenger footrest, push it back to its original position.

Helmet holder

FAUT4170



1. Helmet holder

The helmet holder is located under the seat.

To secure a helmet to the helmet holder

- 1. Open the seat. (See page 3-11.)
- 2. Attach the helmet to the helmet holder, and then securely close the 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]

EAU14302

To release the helmet from the helmet holder

Open the seat, remove the helmet from the helmet holder, and then close the seat.

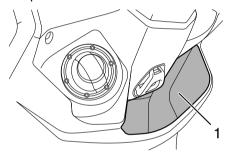
EAU57081

EWA17250

Storage compartments

Front storage compartment

The front storage compartment is located at the front of the vehicle. Use this compartment for small items.



1. Front storage compartment

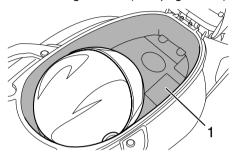
WARNING

3

- Do not exceed the load limit of 1.5 kg (3.3 lb) for the front storage compartment.
- Do not place anything in the front storage compartment that will interfere with your operating the vehicle.

Rear storage compartment

The rear storage compartment is located under the seat. Use this compartment for large items. (See page 3-11.)



1. Rear storage compartment

EWAT1052

WARNING

- Do not exceed the load limit of 5 kg (11 lb) for the rear storage compartment.
- Do not exceed the maximum load of 160 kg (353 lb) for the vehicle.

ECA21150

NOTICE

Keep the following points in mind when using the storage compartment.

- Since the storage compartment accumulates heat when exposed to the sun and/or the engine heat, do not store anything susceptible to heat, consumables or flammable items inside it.
- To avoid humidity from spread-• ing through the storage compartment, wrap wet articles in a plastic bag before storing them in the compartment.
- Since the storage compartment may get wet while the vehicle is being washed, wrap any articles stored in the compartment in a plastic bag.
- Do not keep anything valuable or breakable in the storage compartment.

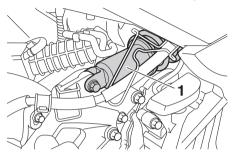
TIP

Do not leave your vehicle unattended with the seat open.

Shock absorber assembly

FAU46023

EWA10222



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.

EAU61380

Luggage hook

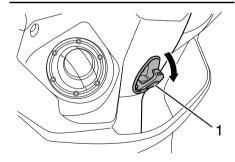
To use the luggage hook, pull it out as shown.

To retract the luggage hook, push it back to its original position.

EWAT1032

3

- Do not exceed the load limit of 3 kg (7 lb) for the luggage hook.
- Do not exceed the maximum load of 160 kg (353 lb) for the vehicle.



1. Luggage holder

1. Shock absorber assembly

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

EAU15306

Sidestand



1. Sidestand

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

TIP_____

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

EWA10242

The vehicle must not be ridden with

the sidestand down, or if the sidestand cannot be properly moved up (or does not stay up), otherwise the sidestand could contact the ground and distract the operator, resulting in a possible loss of control. Yamaha's ignition circuit cut-off system has been designed to assist the operator in fulfilling the responsibility of raising the sidestand before starting off. Therefore, check this system regularly and have a Yamaha dealer repair it if it does not function properly.

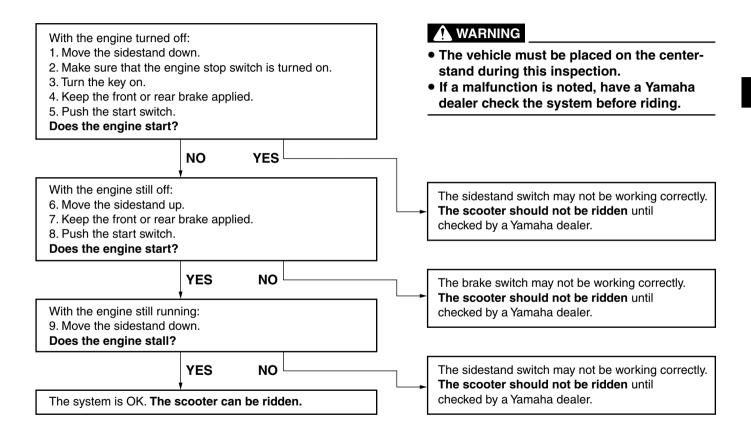
Ignition circuit cut-off system

FAU45053

The ignition circuit cut-off system (comprising the sidestand switch and brake light switches) has the following functions.

- It prevents starting when the sidestand is up, but neither brake is applied.
- It prevents starting when either brake is applied, but the sidestand is still down.
- It cuts the running engine when the sidestand is moved down.

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



EAU15599

EWA11152

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.

4

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. 	3-9, 3-10
Engine oil	 Check oil level in engine. If necessary, add recommended oil to specified level. Check vehicle for oil leakage. 	6-11
Final transmission oil	Check vehicle for oil leakage.	6-13
Coolant	 Check coolant level in reservoir. If necessary, add recommended coolant to specified level. Check cooling system for leakage. 	6-14
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. 	6-21, 6-22

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. 	6-21, 6-22
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. 	6-18, 6-23
Control cables	Make sure that operation is smooth. Lubricate if necessary.	6-23
Wheels and tires	 Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary. 	6-18, 6-20
Brake levers	Make sure that operation is smooth. Lubricate lever pivoting points if necessary.	6-24
Centerstand, sidestand	Make sure that operation is smooth. Lubricate pivots if necessary.	6-24
Chassis fasteners	 Make sure that all nuts, bolts and screws are properly tightened. Tighten if necessary. 	_
Instruments, lights, signals and switches	Check operation. Correct if necessary.	_
Sidestand switch	 Check operation of ignition circuit cut-off system. If system is not working correctly, have Yamaha dealer check vehicle. 	3-15

Operation and important riding points

EAU15952

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.

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. To start the engine after a turnover, be sure to turn the main switch to "OFF" and then to "ON". Failing to do so will prevent the engine from starting even though the engine will crank when pushing the start switch.

EAU45311

EAUT4410

Starting a cold engine

ECA10251

NOTICE

See page 5-3 for engine break-in instructions prior to operating the vehicle for the first time.

In order for the ignition circuit cut-off system to enable starting, the sidestand must be up.

See page 3-15 for more information.

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

ECAT1071

NOTICE

The engine trouble warning light and coolant temperature warning light should come on for a few seconds, then go off. If these warning lights do not go off, have a Yamaha dealer check their electrical circuits.

- 2. Close the throttle completely.
- 3. Start the engine by pushing the start switch while applying the front or rear brake.

If the engine does not start, release the start switch, wait a few

Operation and important riding points

EAU45093

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 5 seconds on any one attempt.

ECA11043

NOTICE

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

Starting off

- 1. While pulling the rear brake lever with your left hand and holding the grab bar with your right hand, push the scooter off the centerstand.
- 2. Sit astride the seat, and then adjust the rear view mirrors.
- 3. Switch the turn signals on.
- 4. Check for oncoming traffic, and then slowly turn the throttle grip (on the right) in order to take off.
- 5. Switch the turn signals off.

Acceleration and deceleration



The speed can be adjusted by opening and closing the throttle. To increase the speed, turn the throttle grip in direction (a). To reduce the speed, turn the throttle grip in direction (b).

Operation and important riding points

Braking

- Avoid braking hard or suddenly (especially when leaning over to one side), otherwise the scooter may skid or overturn.
- Railroad crossings, streetcar rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Therefore, slow down when approaching such areas and cross them with caution.
- Keep in mind that braking on a wet road is much more difficult.
- Ride slowly down a hill, as braking downhill can be very difficult.
- 1. Close the throttle completely.
- 2. Apply both front and rear brakes simultaneously while gradually increasing the pressure.

EAU16794

EWA10301

Tips for reducing fuel consumption

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

- Avoid high engine speeds during acceleration.
- Avoid high engine speeds with no load on the engine.
- Turn the engine off instead of letting it idle for an extended length of time (e.g., in traffic jams, at traffic lights or at railroad crossings).

EAU16821

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.

EAUS1811

0–1000 km (0–600 mi)

Avoid prolonged operation above 4800 r/min. *NOTICE:* After 1000 km (600 mi) of operation, be sure to replace the engine oil and final transmission oil._[ECA11662]

1000-1600 km (600-1000 mi)

Avoid prolonged operation above 5700 r/min.

EAU16842

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

NOTICE

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

Parking

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

EWA10312

- 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.

EAU17214

EAUS1824

EWA10322

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.

A WARNING

6

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

WARNING

Turn off the engine when performing maintenance unless otherwise specified.

- A running engine has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires.
- Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning – possibly leading to death. See page 1-4 for more information about carbon monoxide.

EWA10331

WARNING

This scooter is designed for use on paved roads only. If this scooter is operated in abnormally dusty, muddy or wet conditions, the air filter element should be cleaned or replaced more frequently, otherwise rapid engine wear may result. Consult a Yamaha dealer for proper maintenance intervals.

EWA15123

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

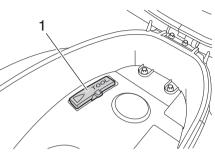
EWA15461

EAU17303

EAU17522

Owner's tool kit

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.



1. Owner's tool kit

The owner's tool kit is located inside the storage compartment under the seat. (See page 3-11.)

The service information included in this manual and the tools provided in the owner's tool kit are intended to assist you in the performance of preventive maintenance and minor repairs. However, additional tools such as a torque wrench may be necessary to perform certain maintenance work correctly.

TIP___

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

• From 12000 mi (19000 km) or 36 months, repeat the maintenance intervals starting from 4000 mi (7000 km) or 12 months.

EAU48451

• Items marked with an asterisk require special tools, data and technical skills, have a Yamaha dealer perform the service.

EAU17562

Periodic maintenance chart for the emission control system

				INITIAL	INITIAL ODOMETER READINGS					
No.		ITEM	ROUTINE	600 mi (1000 km) or 1 month	2000 mi (4000 km) or 6 months	4000 mi (7000 km) or 12 months	6000 mi (10000 km) or 18 months	8000 mi (13000 km) or 24 months	10000 mi (16000 km) or 30 months	
1	*	Fuel line	 Check fuel and vacuum hoses for cracks or damage. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark		
2		Spark plug	 Check condition. Adjust gap and clean. Replace at 7000 mi (11000 km) or 12 months and thereafter every 6000 mi (10000 km) or 12 months. 		V	Replace.	V	Replace.	V	
3	*	Valve clearance	Check and adjust valve clearance when engine is cold.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
4	*	Crankcase breather system	 Check breather hose for cracks or damage. Replace if necessary. 		\checkmark	\checkmark		\checkmark	V	
5	*	Fuel injection	Check engine idle speed.	V	V	V	V	V	V	
6	*	Exhaust system	 Check for leakage. Tighten if necessary. Replace gasket(s) if necessary. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		

General maintenance and lubrication chart

EAU32129

		ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
N	lo.			600 mi (1000 km) or 1 month	2000 mi (4000 km) or 6 months	4000 mi (7000 km) or 12 months	6000 mi (10000 km) or 18 months	8000 mi (13000 km) or 24 months	10000 mi (16000 km) or 30 months	
1	Air filter element • Replace. Every 12500 mi (20000 km)									
2		Air filter check hose	Clean.	V				V		
3		V-belt case air filter	Clean.	\checkmark	\checkmark			\checkmark		
3		element	Replace.	Every 12500 mi (20000 km)						
4	*	Front brake	 Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	V	
5	*	Rear brake	 Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
6	*	Brake hoses	 Check for cracks or damage. Check for correct routing and clamping. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
			Replace.			Every 4	4 years	•		
7	*	Brake fluid	Change.	Every 2 years						
8	*	Wheels	Check runout and for damage.Replace if necessary.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
9	*	Tires	 Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary. 		V	\checkmark	\checkmark	\checkmark	V	
10	*	Wheel bearings	 Check bearings for smooth operation. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	

				INITIAL	INITIAL ODOMETER READINGS							
No.		ITEM	ROUTINE	600 mi (1000 km) or 1 month	2000 mi (4000 km) or 6 months	4000 mi (7000 km) or 12 months	6000 mi (10000 km) or 18 months	8000 mi (13000 km) or 24 months	10000 mi (16000 km) or 30 months			
11	*	Steering bearings	Check bearing assemblies for looseness.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
			Moderately repack with lithium-soap-based grease.	Every 30000 mi (50000 km)								
12	*	Chassis fasteners	 Check all chassis fitting and fasteners. Correct if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
13		Front brake lever pivot shaft	Apply silicone grease lightly.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
14		Rear brake lever pivot shaft	Apply silicone grease lightly.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
15		Centerstand and sidestand pivots	 Check operation. Apply lithium-soap-based grease lightly. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
16	*	Sidestand switch	Check operation and replace if necessary.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
17	*	Front fork	 Check operation and for oil leakage. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark				
18	*	Shock absorber assembly	 Check operation and for oil leakage. Replace if necessary. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
19		Engine oil	Change. (See pages 3-5 and 6-11.)	\checkmark	√ When the oil change indicator flashes (after the initial 600 mi [1000 km] and every 1800 mi (3000 km) thereafter)							
19			Check oil level and vehicle for oil leakage.	\checkmark	Every 1800 mi (3000 km)							
20		Engine oil strainer	Clean.	V		Every	1800 mi (300	Every 1800 mi (3000 km)				

				INITIAL	INITIAL ODOMETER READINGS					
No.		ITEM	ROUTINE	600 mi (1000 km) or 1 month	2000 mi (4000 km) or 6 months	4000 mi (7000 km) or 12 months	6000 mi (10000 km) or 18 months	8000 mi (13000 km) or 24 months	10000 mi (16000 km) or 30 months	
21	*	Cooling system	 Check coolant level and vehicle for coolant leakage. 		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
1			Change coolant.	Every 3 years						
22		Final transmission oil	Check vehicle for oil leakage.Change.	\checkmark		\checkmark		\checkmark		
23	*	V-belt	Replace.	Every 12500 mi (20000 km)						
24	*	Front and rear brake switches	Check operation.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
25	*	Control cables	 Apply Yamaha cable lubricant or other suitable cable lubricant thoroughly. 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
26	*	Throttle grip	 Check operation. Check throttle grip free play, and adjust if necessary. Lubricate cable and grip housing. 			\checkmark	\checkmark	V		
27	*	Lights, signals and switches	Check operation.Adjust headlight beam.		\checkmark	\checkmark	\checkmark		\checkmark	

EAUT4340

TIP_

6

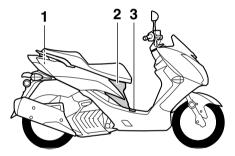
- Engine air filter and V-belt air filter
 - This model's engine air filter is equipped with a disposable oil-coated paper element, which must not be cleaned with compressed air to avoid damaging it.
 - The engine air filter element needs to be replaced and the V-belt air filter element needs to be serviced 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.

EAU18773

Removing and installing panels

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

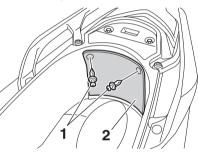


- 1. Panel A
- 2. Panel B
- 3. Panel C

Panel A

To remove the panel

- 1. Open the seat. (See page 3-11.)
- 2. Remove the quick fasteners by loosening their screws, and then take the panel off.



1. Quick fastener

2. Panel A

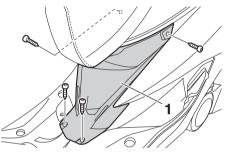
To install the panel

Place the panel in the original position, and then install the quick fasteners by pushing them in place and tightening their screws.

EAUT4240 Panel B

To remove the panel

- 1. Open the seat. (See page 3-11.)
- 2. Remove the screws, and then take the panel off.



1. Panel B

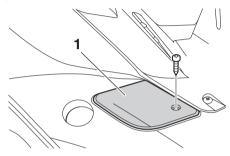
To install the panel

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

Panel C

To remove the panel

Remove the screw, and then pull the panel off as shown.



1. Panel C

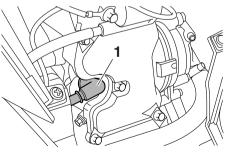
<u>To install the panel</u> Place the panel in the original position, and then install the screw. EAUT1837

Checking the spark plug

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

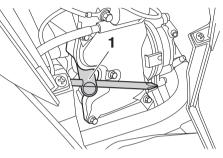
To remove the spark plug

- 1. Place the vehicle on the centerstand.
- 2. Remove panel B. (See page 6-9.)
- 3. Remove the spark plug cap.



- 1. Spark plug cap
- 4. Remove the spark plug as shown,

with the spark plug wrench included in the owner's tool kit.



1. Spark plug wrench

To check the spark plug

1. Check that the porcelain insulator around the center electrode of the spark plug is a medium-to-light tan (the ideal color when the vehicle is ridden normally).

TIP_

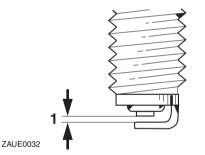
If the spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

^{2.} Check the spark plug for electrode

erosion and excessive carbon or other deposits, and replace it if necessary.

Specified spark plug: NGK / CPR8EA

3. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.



1. Spark plug gap

Spark plug gap: 0.8–0.9 mm (0.031–0.035 in)

To install the spark plug

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

2. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque: Spark plug:

12.5 Nm (1.25 m·kgf, 9.0 ft·lbf)

TIP___

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

3. Install the spark plug cap.

4. Install the panel.

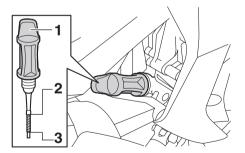
Engine oil and oil strainer

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

EAUT4161

To check the engine oil level

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



- 1. Oil filler cap
- 2. Minimum level mark
- 3. Maximum level mark

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

TIP_____

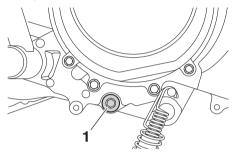
The engine oil should be between the minimum and maximum level marks.

- 4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
- 5. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

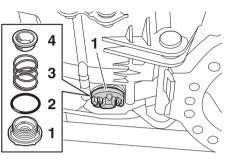
To change the engine oil and clean the oil strainer

- 1. Start the engine, warm it up for several minutes, and then turn it off.
- 2. Place an oil pan under the engine to collect the used oil.
- 3. Remove the engine oil filler cap and the engine oil drain bolts A and B to drain the oil from the crankcase. **NOTICE:** When re-

moving the engine oil drain bolt B, the O-ring, compression spring, and oil strainer will fall out. Take care not to lose these parts.[ECAT1022]



1. Engine oil drain bolt A



- 1. Engine oil drain bolt B
- 2. O-ring
- 3. Compression spring
- 4. Oil strainer
- 4. Clean the oil strainer with solvent, and then check it for damage and replace it if necessary.

6

- 5. Check the O-ring for damage and replace it if necessary.
- 6. Install the oil strainer, compression spring, O-ring and engine oil drain bolt B.

TIP_____

Make sure that the O-ring is properly seated.

7. Install engine oil drain bolt A, and then tighten both drain bolts to

their specified torques.

Tightening torque:

Engine oil drain bolt A: 20 Nm (2.0 m·kgf, 14.5 ft·lbf) Engine oil drain bolt B: 32 Nm (3.2 m·kgf, 23.1 ft·lbf)

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

Recommended engine oil: See page 8-1. Oil change quantity: 0.95 L (1.00 US qt, 0.84 Imp.qt)

ECA11671

NOTICE

- 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.
- Be sure no foreign material enters the crankcase.
- 9. Start the engine, and then let it idle for several minutes while checking

it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.

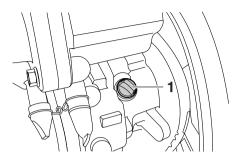
- 10. Turn the engine off, and then check the oil level and correct it if necessary.
- 11. Reset the oil change indicator and oil change tripmeter. (See page 3-4.)

Final transmission oil

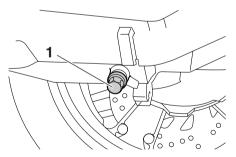
The final transmission case must be checked for oil leakage before each ride. If any leakage is found, have a Yamaha dealer check and repair the scooter. In addition, the final transmission oil must be changed as follows at the intervals specified in the periodic maintenance and lubrication chart.

- 1. Start the engine, warm up the final transmission oil by riding the scooter for several minutes, and then stop the engine.
- 2. Place the scooter on the centerstand.
- 3. Place an oil pan under the final transmission case to collect the used oil.
- 4. Remove the final transmission oil filler cap and its O-ring from the final transmission case.

EAU20067



- 1. Final transmission oil filler cap
- 5. Remove the final transmission oil drain bolt and its gasket to drain the oil from the final transmission case.



- 1. Final transmission oil drain bolt
- 6. Install the final transmission oil drain bolt and its new gasket, and

then tighten the bolt to the specified torque.

Tightening torque:

Final transmission oil drain bolt: 20 Nm (2.0 m·kgf, 14.5 ft·lbf)

7. Refill with the specified amount of the recommended final transmission oil. WARNING! Make sure that no foreign material enters the final transmission case. Make sure that no oil gets on the tire or wheel.[EWA11312]

Recommended final transmission oil: See page 8-1. Oil quantity: 0.20 L (0.21 US qt, 0.18 lmp.qt)

- 8. Install the final transmission oil filler cap and its new O-ring, and then tighten the oil filler cap.
- 9. Check the final transmission case for oil leakage. If oil is leaking, check for the cause.

Coolant

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

EAUT1527

EAU20071

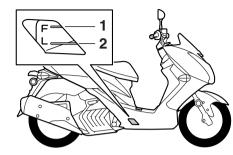
To check the coolant level

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

1. Place the vehicle on the centerstand.

TIP

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

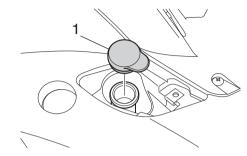


- 1. Maximum level mark
- 2. Minimum level mark
- 6

TIP

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

3. If the coolant is at or below the minimum level mark, remove panel C and the reservoir cap. (See page 6-9.) WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot.[EWA15162]



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

tent of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced._[ECA10473]

Coolant reservoir capacity: 0.25 L (0.26 US qt, 0.22 Imp.qt)

EAU33032

Changing the coolant

The coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer change the coolant. WARNING! Never attempt to remove the radiator cap when the engine is hot.[EWA10382]

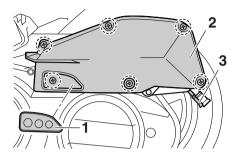
EAUT4180

Air filter and V-belt case air filter elements

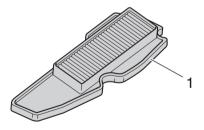
The air filter and V-belt case air filter elements should be cleaned or replaced at the intervals specified in the periodic maintenance and lubrication chart. Check both filter elements more frequently if you are riding in unusually wet or dusty areas. The air filter check hose must be frequently checked and cleaned if necessary.

Replacing the air filter element

- 1. Place the scooter on the centerstand.
- 2. Remove the screw cover and then remove the air filter case cover by removing the screws.



- 1. Screw cover
- 2. Air filter case cover
- 3. Air filter check hose
- 3. Pull the air filter element out.



- 1. Air filter element
- 4. Insert a new air filter element into the air filter case. *NOTICE:* Make sure that the air filter element is

properly seated in the air filter case. The engine should never be operated without the air filter element installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.[ECA10482]

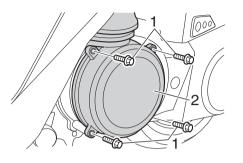
5. Install the air filter case cover by installing the screws and the screw cover.

Cleaning the air filter check hose

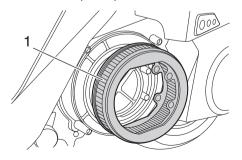
- 1. Check the hose on the rear side of the air filter case for accumulated dirt or water.
- 2. If dirt or water is visible, remove the hose, clean it, and then install it.

Cleaning the V-belt case air filter element

1. Remove the V-belt air filter case cover by removing the bolts.



- 1. Bolt
- 2. V-belt air filter case cover
- 2. Pull the air filter element out, and then clean it with compressed air. *NOTICE:* To avoid damaging the air filter element, handle it gently and carefully, and do not twist it.[ECA10522]



- 3. Insert the element into the air filter case.
- 4. Install the V-belt air filter case cover by installing the bolts.

EAU44735

Checking the engine idling speed

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

Engine idling speed: 1600–1800 r/min

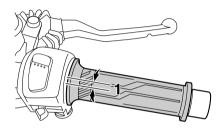
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1. V-belt case air filter element

EAU21386

Checking the throttle grip free play

Measure the throttle grip free play as shown.



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.

EAU21402

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

6

EAU61782

A 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

1. Throttle grip free play

Throttle grip free play: 3.0–5.0 mm (0.12–0.20 in)

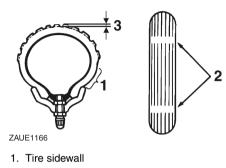
Periodically check the throttle grip free play and, if necessary, have a Yamaha dealer adjust it.

EWA10512

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: 200 kPa (2.00 kgf/cm², 29 psi) Rear: 200 kPa (2.00 kgf/cm², 29 psi) 90 kg (198 lb) to maximum load: Front[.] 200 kPa (2.00 kgf/cm², 29 psi) Rear: 225 kPa (2.25 kgf/cm², 33 psi) Maximum load*: 160 kg (353 lb) * Total weight of rider, passenger, cargo and accessories

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



2. Tire wear indicator

3. Tire tread depth

Tire inspection

The tires must be checked before each ride. 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)

EWA10523

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. Brakes, tires and related wheel parts replacement should also be left to a Yamaha dealer.

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

Tire information

This model is equipped with tubeless tires and tire air valves.

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.

EWA10462

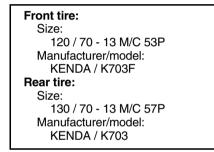
WARNING

The front and rear tires should be of the same make and design, other-

EAUT4100

wise the handling characteristics of the vehicle may be different, which could lead to an accident.

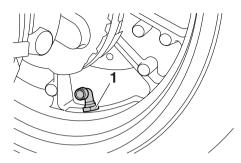
After extensive tests, only the tires listed below have been approved for this model by Yamaha.



Cast wheels

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

- The wheel rims should be checked for cracks, bends, 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.
- After repairing or replacing the rear tire, tighten the valve stem nut to the specified torque.



1. Valve stem nut

Tightening torque: Valve stem nut: 2.0 Nm (0.2 m·kgf, 1.4 ft·lbf)

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EAU50861

EWA14212

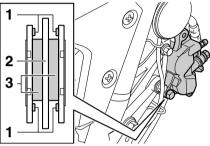
Checking the front and rear brake lever free play

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

6

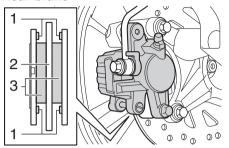
A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the vehicle. Air in the hydraulic system will diminish the braking performance, which may result in loss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

Front brake



- 1. Brake pad wear indicator
- 2. Brake disc
- 3. Brake pad

EAU22312 Rear brake



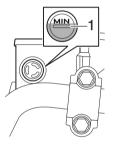
- 1. Brake pad wear indicator
- 2. Brake disc
- 3. Brake pad

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake pad is provided with a wear indicator, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the position of the wear indicator while applying the brake. If a brake pad has worn to the point that the wear indicator almost touches the brake disc, 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

EWA15991

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.
- 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.

ECA17641

6

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. EAU22733

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.

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:

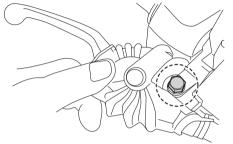
Yamaha cable lubricant or other suitable cable lubricant Checking and lubricating the throttle grip and cable

FAU23115

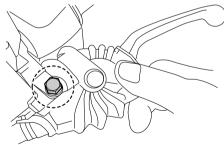
The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance chart. The throttle cable is equipped with a rubber cover. Make sure that the cover is securely installed. Even 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.

Lubricating the front and rear brake levers

Front brake lever

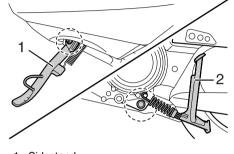


Rear brake lever



The pivoting points of the front and rear brake levers must be lubricated at the intervals specified in the periodic maintenance and lubrication chart. Recommended lubricant: Silicone grease

Checking and lubricating the centerstand and sidestand



Sidestand
 Centerstand

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

EWA10742

WARNING

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

in a possible loss of control.

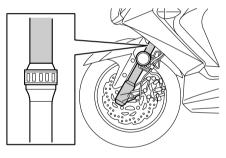
Recommended lubricant: Lithium-soap-based grease Checking the front fork

EAU23273

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

To check the condition

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



To check the operation

- 1. Place the vehicle on a level surface and hold it in an upright position. WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over.[EWA10752]
- 2. While applying the front brake, push down hard on the handlebars

several times to check if the front fork compresses and rebounds smoothly.



ECA10591

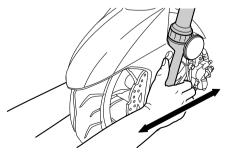
NOTICE

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 the vehicle on the centerstand. WARNING! To avoid injurv. securely support the vehicle so there is no danger of it falling OVER.[EWA10752]
- 2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.



EAU45512

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.

Batterv

FAI 123292



1. Battery

The battery is located behind panel A. (See page 6-9.)

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

EWA10761

WARNING

• Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and al6

ways shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.

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

To charge the battery

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

NOTICE

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

To store the battery

- If the model will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place. *NOTICE:* When removing the battery, be sure the key is turned to "OFF", then disconnect the negative lead before disconnecting the positive lead.[ECA16303]
- 2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
- 3. Fully charge the battery before installation. *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 installing the battery, make sure that the battery leads are properly connected to the battery terminals.
- 5. Turn the key from "ON" to "OFF" three times in three-second intervals to initialize the idle speed control system.

ECA16531

NOTICE

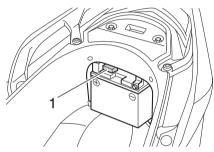
ECA16522

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

Replacing the fuses

Main fuse

The main fuse is located behind panel A. (See page 6-9.)



1. Main fuse

If the main fuse is blown, replace it as follows.

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

Specified fuses: Main fuse:

20.0 A

EAUT4222

- 3. Turn the key to "ON" to check if the vehicle operates normally. If the main fuse immediately blows again, have a Yamaha dealer check the electrical system.
- 4. After removing and installing the main fuse, turn the main switch from "ON" to "OFF" three times in three-second intervals to initialize the idle speed control system.

Fuse box

The fuse box, which contains the fuses for the ignition, turn signal, and lighting systems, as well as the back-up fuse for the multi-function meter unit, is located underneath the windshield behind the front cowling. Have a Yamaha dealer check and replace these fuses if necessary.

Specified fuses: Lighting fuse:

15.0 A Signaling system fuse: 10.0 A Signaling system fuse_2: 7.5 A Ignition fuse: 7.5 A Backup fuse: 7.5 A

EAU24051

Replacing the headlight bulb

Have a Yamaha dealer replace the headlight bulb and, if necessary, adjust the headlight beam.

Auxiliary lights

This model is equipped with LED-type auxiliary lights.

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

EAU54502

Tail/brake light

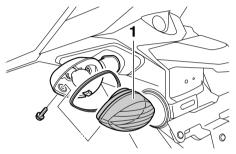
EAU24182

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

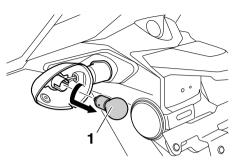
If the tail/brake light does not come on, have a Yamaha dealer check it.

Replacing a turn signal light bulb

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



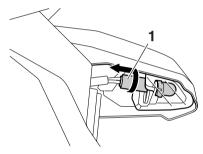
- 1. Turn signal light lens
- 2. Remove the burnt-out bulb by pushing it in and turning it counter-clockwise.



- 1. Turn signal light bulb
- 3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
- 4. Install the lens by installing the screw. *NOTICE:* Do not overtighten the screw, otherwise the lens may break.[ECA11192]

Replacing a license plate light bulb

1. Remove the license plate light bulb socket (together with the bulb) by turning it counterclockwise, and then pulling it out.



6

- 1. License plate light bulb socket
- 2. Remove the burnt-out bulb by pulling it out.
- 3. Insert a new bulb into the socket.
- 4. Install the socket (together with the bulb) by pushing it in, and then turn it clockwise until it stops.

EAU25882

Troubleshooting

Although Yamaha scooters 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 scooter require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the scooter properly.

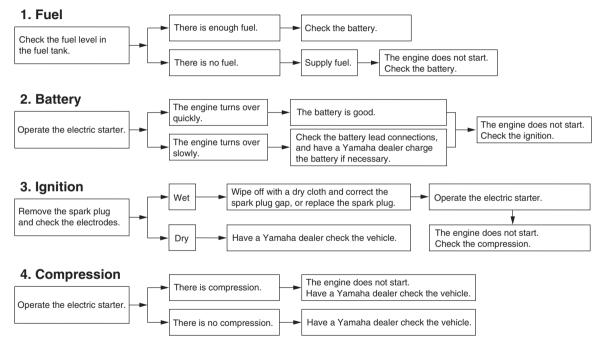
Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

EWA15142

When checking the fuel system, do not smoke, and make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces. Gasoline or gasoline vapors can ignite or explode, causing severe injury or property damage.

Troubleshooting charts

Starting problems or poor engine performance

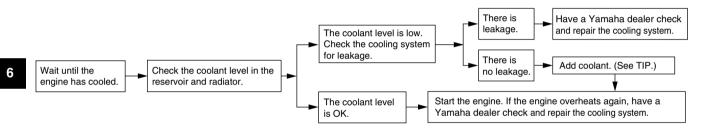


Engine overheating

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.

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 scooter 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 scooter. Frequent and proper care does not only comply with the terms of the warranty, but it will also keep your scooter looking good, extend its life and optimize its performance.

Before cleaning

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

EAU26096

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

Cleaning

ECA10784

7

NOTICE

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

Scooter care and storage

plenty of water, as it is harmful to plastic parts.

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

den 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 the 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 scooter 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.[ECA10792]
- 2. Apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces 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.

Scooter care and storage

After cleaning

- 1. Dry the scooter with a chamois or an absorbing cloth.
- 2. Use a chrome polish to shine chrome, aluminum and stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)
- 3. To prevent corrosion, it is recommended to apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces.
- 4. Use spray oil as a universal cleaner to remove any remaining dirt.
- 5. Touch up minor paint damage caused by stones, etc.
- 6. Wax all painted surfaces.
- 7. Let the scooter dry completely before storing or covering it.

EWA10943

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 operating the scooter test its braking performance and cornering behavior.

ECA10801

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.

Scooter care and storage

EAU36564

ECA10821

Storage

Short-term

Always store your scooter 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 scooter.

NOTICE

- Storing the scooter 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 scooter for several months:

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

- 2. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
 - 3. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - b. Pour a teaspoonful of engine oil into the spark plug bore.
 - c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
 - d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)
 - e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap. WARNING! To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.[EWA10952]

- 4. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/ centerstand.
- 5. Check and, if necessary, correct the tire air pressure, and then lift the scooter so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
- 6. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
- 7. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 6-26.

TIP_

Make any necessary repairs before storing the scooter.

Specifications

Dimensions:

Overall length: 2030 mm (79.9 in) Overall width: 715 mm (28.1 in) Overall height: 1295 mm (51.0 in) Seat height: 795 mm (31.3 in) Wheelbase: 1405 mm (55.3 in) Ground clearance: 90 mm (3.54 in) Minimum turning radius: 2100 mm (82.7 in) Weight: Curb weight: 149 kg (328 lb) Engine: Engine type: Liquid cooled 4-stroke, SOHC Cylinder arrangement: Single cylinder Displacement: 155 cm³ Bore × stroke: 58.0×58.7 mm (2.28 \times 2.31 in) Compression ratio: 11.0:1Starting system: Electric starter Lubrication system: Wet sump

Engine oil:

SAE viscosity grades: 10W-40, 10W-50, 15W-40, 20W-40 or 20W-50

0 !	10 !	30 !	50 !	70 !	90 !	110 !	130	۴
	•	S	AE 1	0W-4	40	•		
		5	SAE	10W	-50			
			SAE	15V	V-40			
			S	AE 2	0Ŵ-	40		
			5	SAE :	20W	-50 i		
-20	-10	0	10	20	30	40	50 °	°C

Recommended engine oil grade: API service SG type or higher, JASO standard MA or MB Engine oil quantity: Periodic oil change: 0.95 L (1.00 US gt, 0.84 Imp.gt) Final transmission oil: Type: SAE 10W-30 type SE motor oil Quantity: 0.20 L (0.21 US at, 0.18 Imp.at) **Coolant quantity:** Coolant reservoir (up to the maximum level mark): 0.25 L (0.26 US qt, 0.22 Imp.qt) Radiator (including all routes): 0.56 L (0.59 US gt, 0.49 Imp.gt)

Air filter:

Air filter element Oil-coated paper element Fuel: **Recommended fuel:** Unleaded gasoline only Fuel tank capacity: 7.4 L (1.95 US gal. 1.63 Imp.gal) **Fuel injection:** Throttle body: ID mark: 2SW1 00 Spark plug(s): Manufacturer/model: NGK / CPB8FA Spark plug gap: 0.8-0.9 mm (0.031-0.035 in) Clutch: Clutch type: Dry, centrifugal automatic Transmission: Primary reduction ratio: 1.000 Final drive: Gear Secondary reduction ratio: $8.787 = (45 / 13) \times (33 / 13)$ Transmission type: V-belt automatic Gear ratio:

Chassis:

Frame type: Backbone

Specifications

Caster angle: 26.0° Trail: 82 mm (3.2 in) Front tire: Type: Tubeless Size: 120 / 70 - 13 M/C 53P Manufacturer/model: KENDA / K703F **Rear tire:** Type: Tubeless Size: 130 / 70 - 13 M/C 57P Manufacturer/model: **KENDA / K703**

Loading:

Maximum load:

160 kg (353 lb)
* (Total weight of rider, passenger, cargo and accessories)

Tire air pressure (measured on cold tires):

Loading condition: 90 kg (198 lb) Front: 200 kPa (2.00 kgf/cm², 29 psi) Rear: 200 kPa (2.00 kgf/cm², 29 psi) Loading condition: 90 kg - maximum load Front: 200 kPa (2.00 kgf/cm², 29 psi) Rear: 225 kPa (2.25 kgf/cm², 33 psi) Front wheel: Wheel type: Cast wheel Rim size: J 13 \times MT3.00 Rear wheel: Wheel type: Cast wheel Rim size: J 13 \times MT3.5

Front brake:

Type: Single disc brake Operation: Right hand operation Specified brake fluid: DOT 4 Rear brake: Type: Single disc brake Operation: Left hand operation Specified brake fluid: DOT 4 Front suspension: Type: Telescopic fork Spring/shock absorber type: Coil spring/oil damper

Wheel travel: 79 mm (3.1 in) **Rear suspension:** Type: Swingarm Spring/shock absorber type: Coil spring/oil damper Wheel travel: 93 mm (3.7 in) **Electrical system:** System voltage: 12 V Ignition system: TCI Charging system: AC magneto Batterv: Model: GT7B-4 Voltage, capacity: 12 V, 6.5 Ah Headlight: Bulb type: Halogen bulb Bulb voltage, wattage × quantity: Headlight: 12 V, 60.0 W/55.0 W × 1 Brake/tail light: I FD Front turn signal light: 12 V, 21.0 W × 2 Rear turn signal light: 12 V, 21.0 W × 2

Auxiliary light: LED License plate light: 12 V, 5.0 W \times 1 Meter lighting: LED High beam indicator light: LED Turn signal indicator light: LED Coolant temperature warning light: LED Engine trouble warning light: LED

Fuse:

Main fuse: 20.0 A Signaling system fuse: 10.0 A Ignition fuse: 7.5 A Backup fuse: 7.5 A

Consumer information

Identification numbers

Record the vehicle identification number, engine serial number, model label information, and the key identification number in the spaces provided below. These identification numbers are needed when registering the vehicle with the authorities in your area and when ordering spare parts from a Yamaha dealer.

VEHICLE IDENTIFICATION NUM-BER:

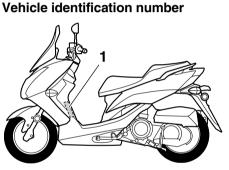
ENGINE SERIAL NUMBER:

MODEL LABEL INFORMATION:



9

EAU26357 KEY IDENTIFICATION NUMBER:



1. Vehicle identification number

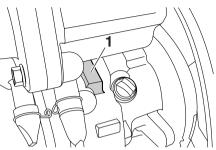
The vehicle identification number is stamped into the frame.

TIP_

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

Engine serial number

EAU26411



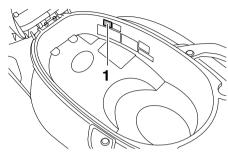
1. Engine serial number

The engine serial number is stamped into the crankcase.

EAU26442

Consumer information

Model label

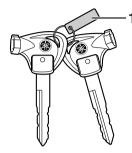


1. Model label

The model label is affixed to the inside of the rear storage compartment. (See page 3-13.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU26501

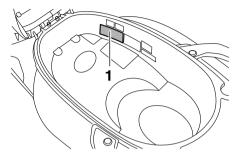
Key identification number



EAU26382

1. Key identification number

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



1. Vehicle Emission Control Information label

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

Reporting safety defects

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

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http:// www.safercar.gov; or write to: Administrator, NHTSA, 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.

EAU26553

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

Maintenance record

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

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
600 mi (1000 km) or 1 month				
2000 mi (4000 km) or 6 months				
4000 mi (7000 km) or 12 months				
6000 mi (10000 km) or 18 months				
8000 mi (13000 km) or 24 months				
10000 mi (16000 km) or 30 months				
12000 mi (19000 km) or 36 months				
14000 mi (22000 km) or 42 months				
16000 mi (25000 km) or 48 months				

Consumer information

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
18000 mi (28000 km) or 54 months				
20000 mi (31000 km) or 60 months				

YAMAHA MOTOR CORPORATION, U.S.A. 2015 AND LATER MODEL SCOOTER LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that each new Yamaha scooter purchased from an authorized Yamaha scooter dealer in the continental United States 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 scooters shall be one (1) year from the date of purchase, with no mileage limitation, except for the battery, which is warranted for thirty (30) days from the date of purchase.

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

DURING THE PERIOD OF WARRANTY any authorized Yamaha scooter dealer will, free of charge, repair or replace, at Yamaha's option, 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 the 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 and off-season storage as described in the Owner's Manual.
- e. Accident or collision damage.
- f. Modification to original parts.
- g. Damage due to improper transportation.

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:

- 1. Operate and maintain the scooter as specified in the appropriate Owner's Manual, and
- Give notice to an authorized Yamaha scooter 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 any remaining 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 scooter dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. A reasonable dealerimposed fee may be charged for the inspection.

EMISSIONS CONTROL SYSTEM WARRANTY

Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each Yamaha scooter 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 periods 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 50cc to 169cc	PERIOD 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 or over	30,000 km (18,641 miles) or five years, whichever occurs first

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

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

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

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

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- Q. What costs are my responsibility during the warranty period?
- A. The customer's responsibility includes all costs of normal maintenance services, nonwarranty 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 transporation 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 Riva dealer.
- Q. Will the warranty be void or cancelled if I do not operate or maintain my new Riva exactly as specified in the Owner's Manual?
- A. No. The warranty on a new Riva cannot be "voided" or "cancelled." However, if a particular failure is caused by operation or maintenance other than as shown 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 Riva dealer is expected to:
 - 1. Completely set up every new machine before sale.
 - 2. Explain the operation, maintenance, and warranty requirements to your satisfation at the time of sale, and upon your request at any later date.
 - 3. Each Yamaha Riva 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 Riva dealer for the policy to remain effective.

If your machine requires warranty service, you must take it to any authorized Yamaha Riva 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 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 :

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 Riva model name, V.I.N (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

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

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

YAMAHA EXTENDED SERVICE (Y.E.S.)

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

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

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

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

Genuine Yamaha Parts – Genuine Yamaha replacement parts are the exact same parts as the ones originally equipped on your vehicle, providing you with the performance and durability you have come to expect. Why settle for aftermarket parts that may not provide full confidence and satisfaction?

Genuine Yamaha Accessories – Yamaha only offers accessories that meet our high standards for quality and performance. Buy with confidence, knowing your Genuine Yamaha Accessories will fit right and perform right – right out of the box.

Yamalube – Take care of your Yamaha with legendary Yamalube oils, lubricants, and care products. They're formulated and approved by the toughest judges we know: the Yamaha engineering teams that know your Yamaha from the inside out.

Genuine Yamaha Service Manuals – Get the same factory manual for your vehicle that the technicians at your authorized Yamaha dealer use. Service manuals are available through your Yamaha dealer or you can order them directly through yamahapubs.com (for US consumers only).

Genuine Yamaha products are available only from your Yamaha dealer.

Find out more at: For US consumers, please visit yamaha-motor.com For Canadian consumers, please visit yamaha-motor.ca



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