




OWNER'S MANUAL


D'elight

MOTORCYCLE

 Read this manual carefully before operating this vehicle.

LTS125-C

BW5-F8199-E0

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

Welcome to the Yamaha world of motorcycling!

As the owner of the LTS125-C, you are benefiting from Yamaha's vast experience and newest technology regarding the design and manufacture of high-quality products, which have earned Yamaha a reputation for dependability.

Please take the time to read this manual thoroughly, so as to enjoy all advantages of your LTS125-C. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your scooter, but also in how to safeguard yourself and others from trouble and injury.

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

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

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







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

Important manual information

EAU63350

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

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

*Product and specifications are subject to change without notice.

EAU0012

**LTS125-C
OWNER'S MANUAL
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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

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.

Safety information

1

- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice 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 footrests 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 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 TREATMENT**.

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

Loading

Adding accessories or cargo to your 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.

<p>Maximum load: 161 kg (355 lb)</p>

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 pressure 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.**

Safety information

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. Careful-

ly 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 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.

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 6-17 for tire specifications and more information on replacing your tires.

Transporting the Scooter

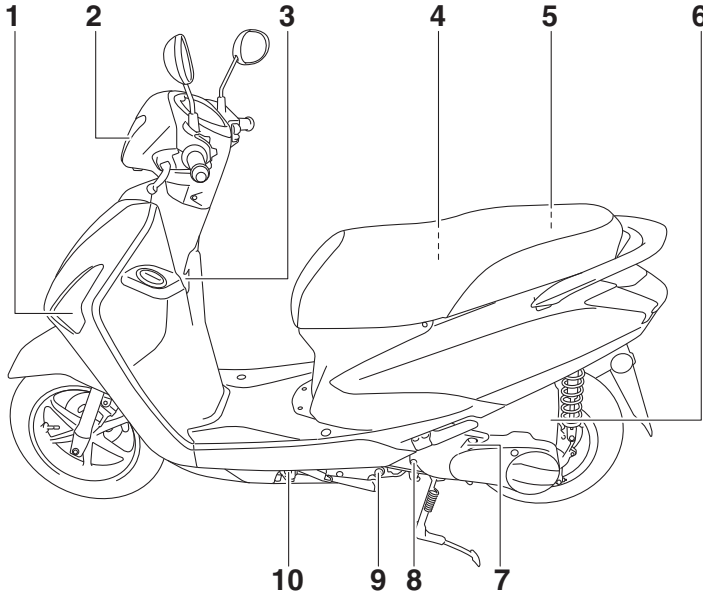
Be sure to observe following instructions before transporting the scooter in another vehicle.

- 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 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.

Description

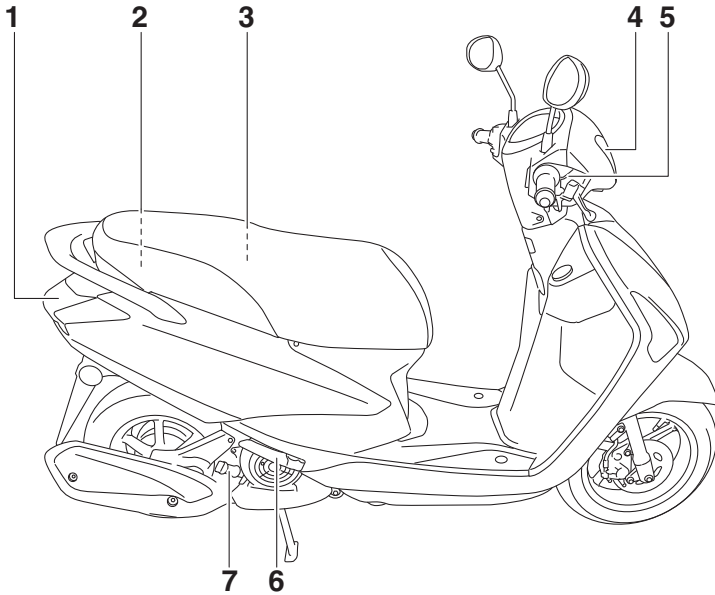
EAU63371

Left view



1. Front turn signal light (page 6-32)
2. Auxiliary light (page 6-31)
3. Luggage hook (page 3-13)
4. Owner's tool kit (page 6-2)
5. Fuse box (page 6-30)
6. Air filter element (page 6-14)
7. V-belt case air filter element (page 6-14)
8. Engine oil drain bolt A (page 6-11)
9. Engine oil drain bolt B (page 6-11)
10. Sidestand (page 3-13)

Right view

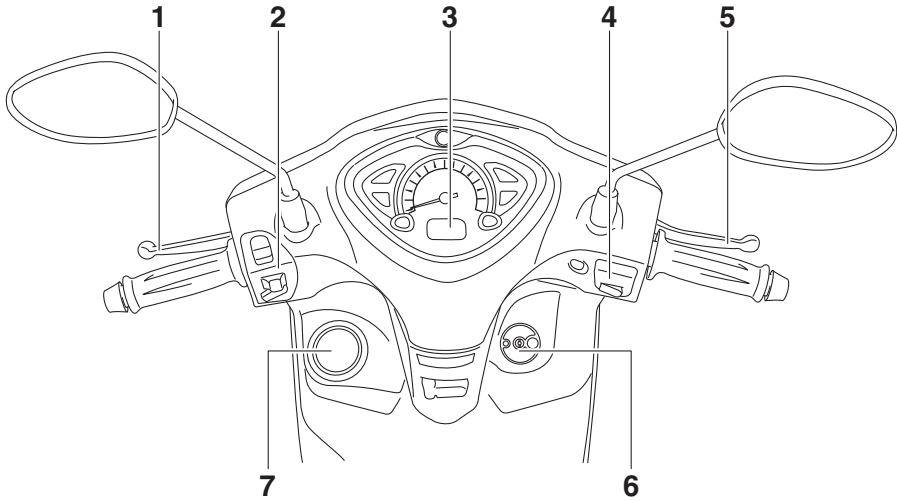


1. Tail/brake light (page 6-32)
2. Battery (page 6-28)
3. Storage compartment (page 3-12)
4. Headlight (page 6-30)
5. Front brake fluid reservoir (page 6-22)
6. Passenger footrest (page 3-12)
7. Dipstick (page 6-11)

Description

EAU63401

Controls and instruments



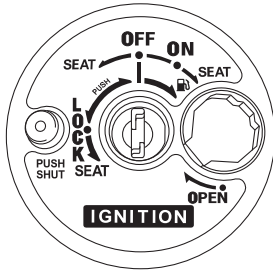
1. Rear brake lever (page 3-8)
2. Left handlebar switches (page 3-6)
3. Multi-function meter unit (page 3-4)
4. Right handlebar switch (page 3-6)
5. Front brake lever (page 3-7)
6. Main switch/steering lock (page 3-1)
7. Fuel tank cap (page 3-8)

Instrument and control functions

Main switch/steering lock

EAUU1031

EWA10062



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

TIP

The main switch is equipped with a keyhole cover. (See page 3-2 for keyhole cover opening and closing procedures.)

ON

EAUT3381

All electrical circuits are supplied with power, and the meter lighting, auxiliary light and taillight 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

EAU10662

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

WARNING

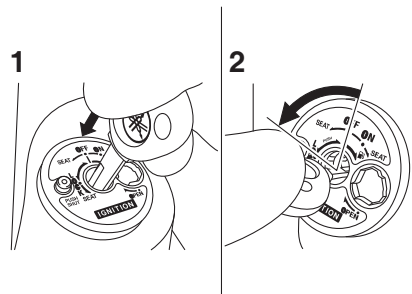
Never turn the key to "OFF" or "LOCK" while the vehicle is moving. Otherwise the electrical systems will be switched off, which may result in loss of control or an accident.

EAUU1043

LOCK

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

To lock the steering



1. Push.
2. Turn.

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

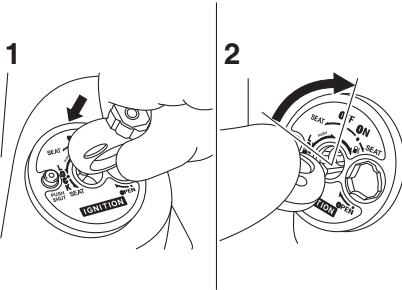
TIP

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

Instrument and control functions

EAUJ0730

To unlock the steering



1. Push.
2. Turn.

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

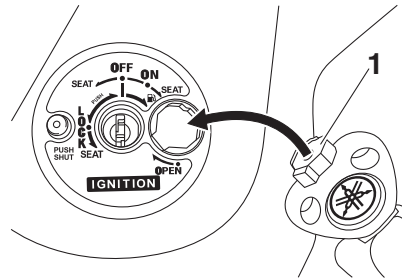
EWAU0042

⚠ 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.
- If the vehicle turns over, and after placing it upright, ensure that there is no fuel leakage. If fuel is leaking, have a Yamaha dealer check the vehicle.

Keyhole cover

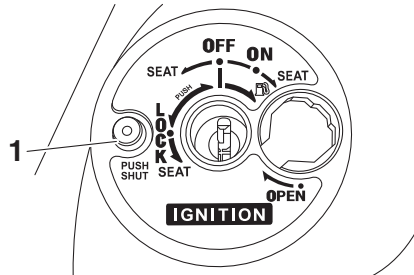
To open the keyhole cover



1. Key bow

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

To close the keyhole cover

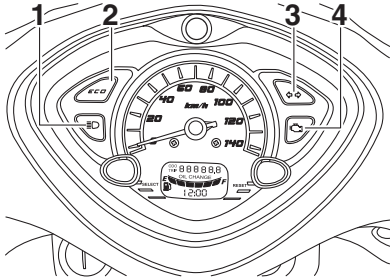






1. “PUSH SHUT” button

Press the “PUSH SHUT” button to close the keyhole cover.

Indicator lights and warning light

EAU1100D



1. High beam indicator light “”
2. Eco indicator light “ECO”
3. Turn signal indicator light “ ”
4. Engine trouble warning light “”

Turn signal indicator light “ ”

EAU11022

This indicator light flashes when a turn signal light is flashing.

High beam indicator light “”

EAU11081

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

Engine trouble warning light “”

EAU73171

This warning light comes on if a problem is detected in the engine or other vehicle control system. If this occurs, have a Yamaha dealer check the on-board diagnostic system.

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 vehicle.

Eco indicator light “ECO”

EAUN0711

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

TIP

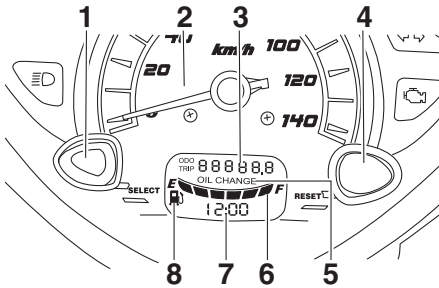
Consider the following tips to reduce fuel consumption:

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

Instrument and control functions

Multi-function meter unit

EAU70815



1. "SELECT" button
2. Speedometer
3. Odometer/tripmeter
4. "RESET" button
5. Oil change indicator "OIL CHANGE"
6. Fuel meter
7. Clock
8. Fuel level warning indicator "⛽"

⚠ WARNING

EWA12423

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

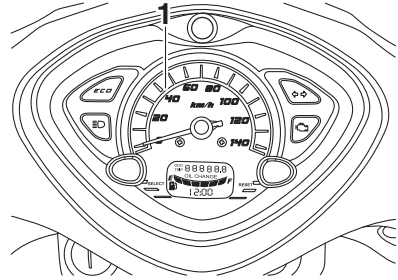
The multi-function meter unit is equipped with the following:

- speedometer
- fuel meter
- clock
- odometer
- tripmeter
- oil change tripmeter
- oil change indicator

TIP

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

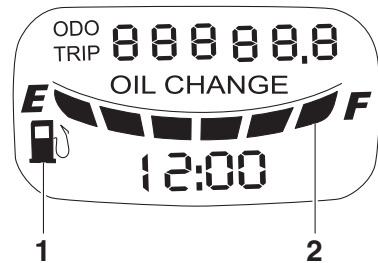
Speedometer



1. Speedometer

The speedometer shows the vehicle's traveling speed.

Fuel meter



1. Fuel level warning indicator "⛽"
2. Fuel meter

The fuel meter indicates the amount of fuel in the fuel tank. The display segments of the fuel meter disappear towards "E" (empty) as the fuel level decreases. When the bottom segment of the fuel meter and fuel level warning indicator "⛽" start flashing, refuel as soon as possible. When the key is turned to "ON", all of the display segments of the fuel meter will appear for a few seconds, and then the fuel meter shows the actual fuel level.

Instrument and control functions

TIP

Do not use up all of the fuel in the fuel tank.

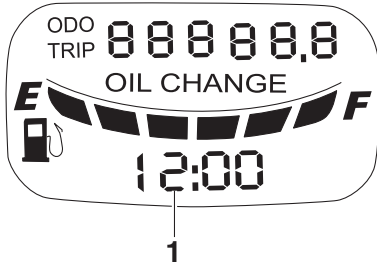
The fuel meter is equipped with a self-diagnosis function. If a problem is detected in the fuel meter electrical circuit, all the display segments and the fuel level warning indicator will flash repeatedly. If this occurs, have Yamaha dealer check the vehicle.

ECAV0041

NOTICE

When the fuel indicator has dropped to only one block, refuel as soon as possible, as the movement of fuel when going up or downhill or when turning may lead to the engine not getting any fuel, resulting in engine stop.

Clock



1. Clock

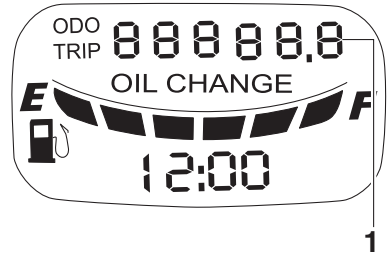
The clock uses a 12-hour time system.

To set the clock:

1. Push the “SELECT” button and “RESET” button together for at least two seconds.
2. When the hour digits start flashing, push the “RESET” button to set the hours.

3. Push the “SELECT” button, and the minute digits will start flashing.
4. Push the “RESET” button to set the minute digits.
5. Push the “SELECT” button and then release it to start the clock.

Odometer and tripmeter mode



1. Odometer/tripmeter

The odometer shows the total distance traveled by the vehicle.

The tripmeters show the distance traveled since they were last set to zero.

Push the “SELECT” button to switch the display between the odometer mode “ODO”, the tripmeter mode “TRIP”, and the oil change tripmeter mode “OIL TRIP” in the following order:

ODO → TRIP → OIL TRIP → ODO

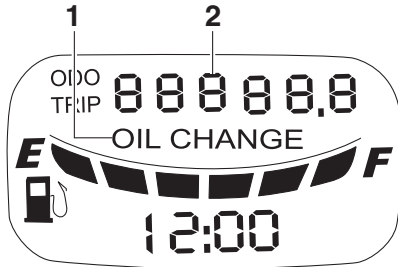
TIP

- The odometer will lock at 999999.
- The tripmeters will reset and continue counting after 9999.9 is reached.

Instrument and control functions

EAU1234M

Oil change indicator “OIL CHANGE”



3

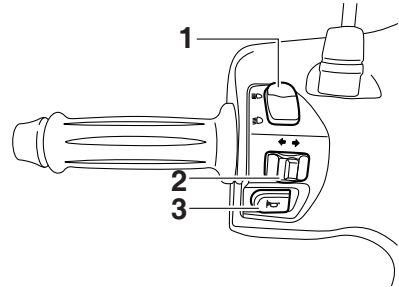
1. Oil change indicator “OIL CHANGE”
2. Oil change tripmeter

This indicator will come on at the initial 1000 km (600 mi), then at 3000 km (1875 mi) and every 3000 km (1875 mi) thereafter to indicate that the engine oil should be changed.

After changing the engine oil, reset the oil change indicator and the oil change tripmeter. To reset them both, select the oil change tripmeter, and then push the “RESET” button for one second. While “OIL CHANGE” is flashing, push the “RESET” button for three seconds. The oil change tripmeter will be reset and the oil change indicator will go off. If the engine oil is changed before the oil change indicator comes on (i.e., before the periodic oil change interval has been reached), the oil change tripmeter must be reset for the next periodic oil change to be indicated at the correct time.

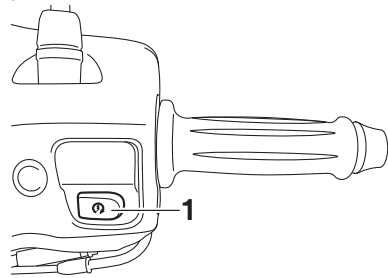
Handlebar switches

Left



1. Dimmer switch “ \equiv 0/ \equiv 0”
2. Turn signal switch “ \leftarrow / \rightarrow ”
3. Horn switch “ 🔊 ”

Right



1. Start switch “ 🔌 ”

EAU12401

Dimmer switch “ \equiv 0/ \equiv 0”

Set this switch to “ \equiv 0” for the high beam and to “ \equiv 0” for the low beam.

EAU12461

Turn signal switch “ \leftarrow / \rightarrow ”

To signal a right-hand turn, push this switch to “ \rightarrow ”. To signal a left-hand turn, push this switch to “ \leftarrow ”. 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.

Instrument and control functions

Horn switch “”

EAU12501

Press this switch to sound the horn.

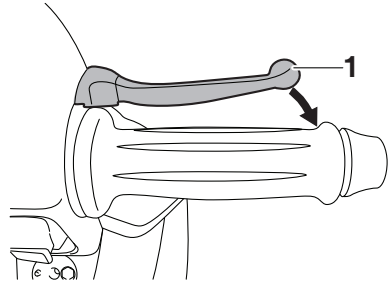
Start switch “”

EAU12722

With the sidestand up, push this switch while applying the front or rear brake to crank the engine with the starter.

Front brake lever

EAU12902



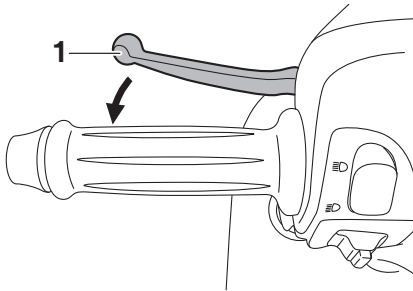
1. Front brake lever

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.

Instrument and control functions

Rear brake lever

EAU12952



3


1. Rear brake lever

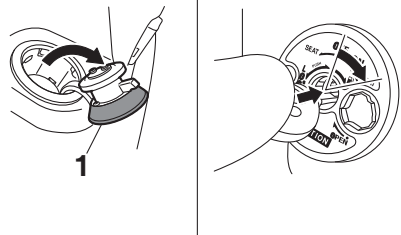
The rear brake lever is located on the left side of the handlebar. To apply the rear brake, pull this lever toward the handlebar grip.

Fuel tank cap

EAU1162

To open the fuel tank cap

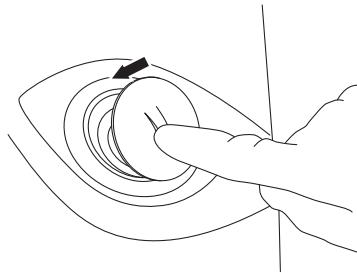
Insert the key into the main switch and, while pushing the key in, turn it to “”. The lock will be released and the fuel tank cap can be removed.



1. Fuel tank cap

To install the fuel tank cap

Push the fuel tank cap down into its position. A clicking sound can be heard when the fuel tank cap is locked.



EWA10122



WARNING

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

Instrument and control functions

Fuel

EAU13213

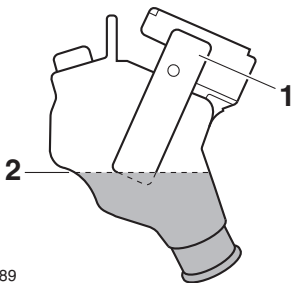
Make sure there is sufficient gasoline in the tank.

EWA10882

WARNING

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

1. Before refueling, turn off the engine and be sure that no one is sitting on the vehicle. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers.
2. Do not overfill the fuel tank. 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.



ZAUU0689

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

WARNING

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

EAU76750

Recommended fuel:

Regular unleaded gasoline (Gasohol (E10) acceptable)

Fuel tank capacity:

5.5 L (1.45 US gal, 1.21 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.



3

TIP

- This mark identifies the recommended fuel for this vehicle as specified by European regulation (EN228).
- Check that gasoline nozzle has the same identifier when fueling.

Your Yamaha engine has been designed to use regular unleaded gasoline with a research octane number of 95 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

Gasohol

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

Catalytic converter

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

EWA10863

WARNING

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

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

ECA10702

NOTICE

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

Instrument and control functions

EAUJ1175

Seat

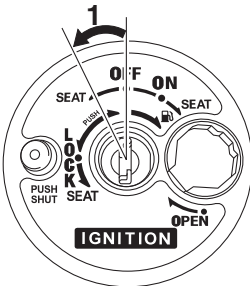
To open the seat

1. Place the vehicle on the center-stand.
2. Turn the key to “SEAT”.

TIP

Do not push inward when turning the key.

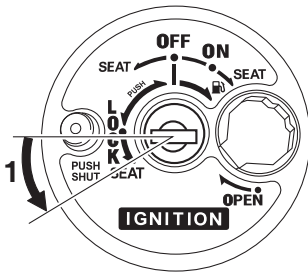
To open the seat from the “OFF” position



1. Seat open (in “OFF” position)

From the “OFF” position, turn the key counterclockwise to “SEAT”.

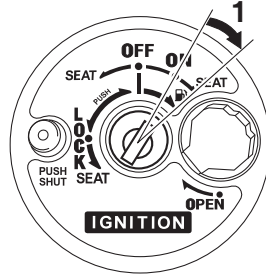
To open the seat from the “LOCK” position



1. Seat open (in “LOCK” position)

From the “LOCK” position, turn the key counterclockwise to “SEAT”.

To open the seat from the “ON” position



1. Seat open (in “ON” position)

From the “ON” position, turn the key clockwise to “SEAT”.

3. Fold the seat up.

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 vehicle will be left unattended.

TIP

Make sure that the seat is properly secured before riding.

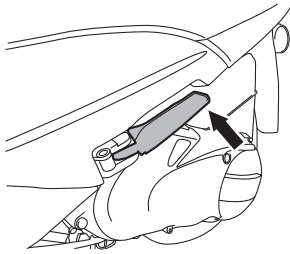
Instrument and control functions

EAUT4170

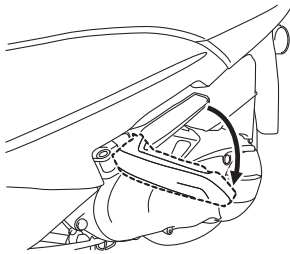
EAU14454

Passenger footrest

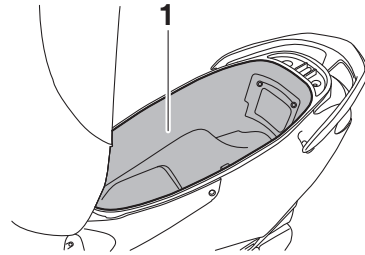
To use the passenger footrest, push the footrest inward and it will pop out as shown.



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



Storage compartment



1. Storage compartment

The storage compartment is located under the seat. (See page 3-11.)

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

EWA10962

WARNING

- Do not exceed the load limit of 10 kg (22 lb) for the storage compartment.
- Do not exceed the maximum load of 161 kg (355 lb) for the vehicle.

Instrument and control functions

EAU61380

EAU15306

Luggage hook

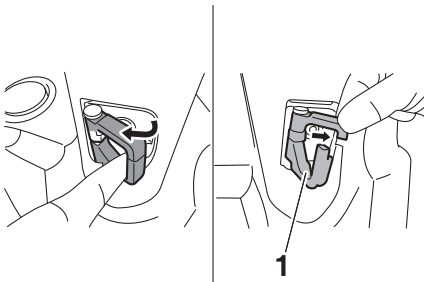
To use the luggage hook, pull it out as shown.

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

EWA1032

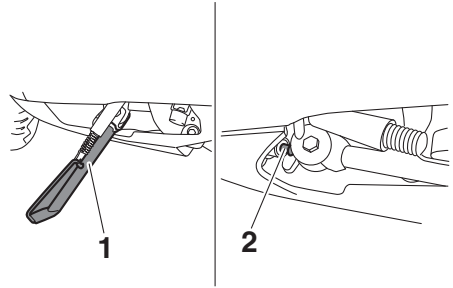
⚠ WARNING

- Do not exceed the load limit of 1 kg (2.2 lb) for the luggage hook.
- Do not exceed the maximum load of 161 kg (355 lb) for the vehicle.



1. Luggage hook

Sidestand



1. Sidestand
2. Sidestand switch

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

⚠ WARNING

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

Instrument and control functions

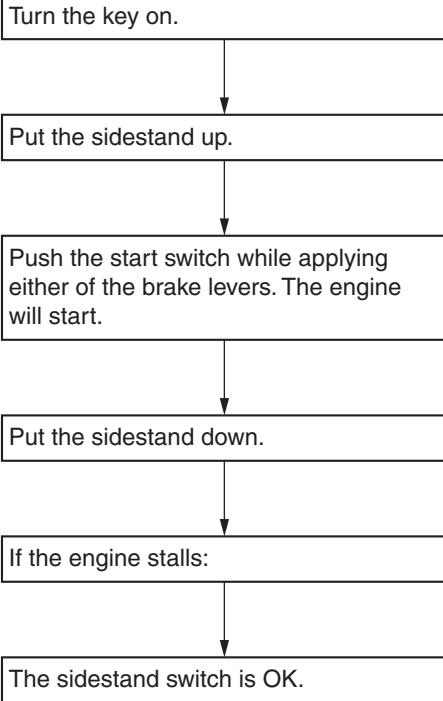
this system regularly and have a Yamaha dealer repair it if it does not function properly.

EAU66800

Ignition circuit cut-off system

Check the operation of the sidestand switch according to the following procedure.

Instrument and control functions



WARNING

- The vehicle must be placed on the centerstand during this inspection.
 - If a malfunction is noted, have a Yamaha dealer check the system before riding.
-

For your safety – pre-operation checks

EAU63440

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

EWA11152

WARNING

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

Before using this vehicle, check the following points:

ITEM	CHECKS	PAGE
Fuel	<ul style="list-style-type: none">• Refuel if necessary.• Check fuel line for leakage.	3-9
Engine oil	<ul style="list-style-type: none">• Check oil level in engine.• If necessary, add recommended oil to specified level.• Check vehicle for oil leakage.	6-11
Final transmission oil	<ul style="list-style-type: none">• Check vehicle for oil leakage.	6-13
Front brake	<ul style="list-style-type: none">• Check operation.• If soft or spongy, have Yamaha dealer bleed hydraulic system.• Check brake pads for wear.• Replace if necessary.• Check fluid level in reservoir.• If necessary, add specified brake fluid to specified level.• Check hydraulic system for leakage.	6-21, 6-22
Rear brake	<ul style="list-style-type: none">• Check operation.• Lubricate cable if necessary.• Check lever free play.• Adjust if necessary.	6-20, 6-22
Throttle grip	<ul style="list-style-type: none">• 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.	6-16, 6-25
Control cables	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate if necessary.	6-24
Wheels and tires	<ul style="list-style-type: none">• Check for damage.• Check tire condition and tread depth.• Check air pressure.• Correct if necessary.	6-17, 6-19
Brake levers	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate lever pivoting points if necessary.	6-25
Centerstand, side-stand	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate pivots if necessary.	6-26

For your safety – pre-operation checks

ITEM	CHECKS	PAGE
Chassis fasteners	<ul style="list-style-type: none">• Make sure that all nuts, bolts and screws are properly tightened.• Tighten if necessary.	—
Instruments, lights, signals and switches	<ul style="list-style-type: none">• Check operation.• Correct if necessary.	—
Sidestand switch	<ul style="list-style-type: none">• Check operation of ignition circuit cut-off system.• If system is not working correctly, have Yamaha dealer check vehicle.	3-13

Operation and important riding points

EAU15952

EAU45093

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.

EWA10272

WARNING

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

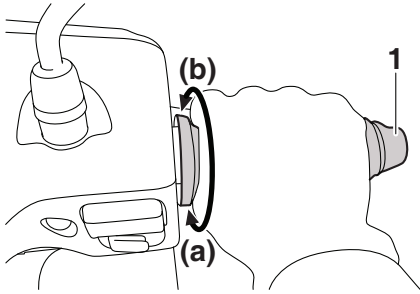
Starting off

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 center-stand.
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.

Operation and important riding points

Acceleration and deceleration

EAU16782



1. Throttle grip

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).

Braking

EAU16794

EWA10301

⚠ WARNING

- 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.

Operation and important riding points

EAU16831

Engine break-in

There is never a more important period in the life of your engine than the period between 0 and 1000 km (600 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 1000 km (600 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.

ement replaced, and the oil strainer cleaned. If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle. [ECA10363]

5

EAU37793

0–150 km (0–90 mi)

Avoid prolonged operation above 1/3 throttle.

After every hour of operation, stop the engine, and then let it cool for five to ten minutes.

Vary the engine speed from time to time. Do not operate the engine at one set throttle position.

150–500 km (90–300 mi)

Avoid prolonged operation above 1/2 throttle.

Rev the engine freely through the gears, but do not use full throttle at any time.

500–1000 km (300–600 mi)

Avoid prolonged operation above 3/4 throttle.

1000 km (600 mi) and beyond

Avoid prolonged full-throttle operation. Vary the engine speed occasionally.

NOTICE: After 1000 km (600 mi) of operation, the engine oil must be changed, the oil filter cartridge or el-

Periodic maintenance and adjustment

EAU17246

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

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

EWA10322

WARNING

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

EWA15123

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 1-2 for more information about carbon monoxide.

EWA15461

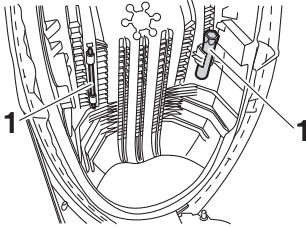
WARNING

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

Periodic maintenance and adjustment

EAU17382

Owner's tool kit



1. Owner's tool kit

The owner's tool kit is located 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.

Periodic maintenance and adjustment

EAU71020

TIP

- The annual checks must be performed every year, except if a kilometer-based maintenance, or for the UK, a mileage-based maintenance, is performed instead.
- From 30000 km (17500 mi), repeat the maintenance intervals starting from 6000 km (3500 mi).
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

EAU71060

Periodic maintenance chart for the emission control system

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK		
			X 1000 km							
			1	6	12	18	24			
X 1000 mi					0.6	3.5	7	10.5	14	
1	* Fuel line	<ul style="list-style-type: none"> • Check fuel hoses for cracks or damage. • Replace if necessary. 		√	√	√	√	√		
2	* Spark plug	<ul style="list-style-type: none"> • Check condition. • Adjust gap and clean. 		√		√				
		<ul style="list-style-type: none"> • Replace. 			√		√			
3	* Valve clearance	<ul style="list-style-type: none"> • Check and adjust. 		√	√	√	√			
4	* Fuel injection	<ul style="list-style-type: none"> • Check engine idle speed. 	√	√	√	√	√	√		
5	* Exhaust system	<ul style="list-style-type: none"> • Check for leakage. • Tighten if necessary. • Replace gasket if necessary. 	√	√	√	√	√			

Periodic maintenance and adjustment

EAU71361

General maintenance and lubrication chart

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK		
			X 1000 km							
			1	6	12	18	24			
X 1000 mi					0.6	3.5	7	10.5	14	
1	* Diagnostic system check	<ul style="list-style-type: none"> Perform dynamic inspection using Yamaha diagnostic tool. Check the error codes. 	√	√	√	√	√	√	√	√
2	* Air filter element	<ul style="list-style-type: none"> Replace. 	Every 18000 km (10500 mi)							
3	Air filter case check hose	<ul style="list-style-type: none"> Clean. 	√	√	√	√	√	√		
4	* V-belt case air filter element	<ul style="list-style-type: none"> Clean. Replace if necessary. 		√	√	√	√	√	√	√
5	* Front brake	<ul style="list-style-type: none"> Check operation, fluid level, and for fluid leakage. Replace brake pads if necessary. 	√	√	√	√	√	√	√	√
6	* Rear brake	<ul style="list-style-type: none"> Check operation. Adjust cable. Replace brake shoes if necessary. 	√	√	√	√	√	√	√	√
7	* Brake hose	<ul style="list-style-type: none"> Check for cracks or damage. Replace. 		√	√	√	√	√	√	√
8	* Brake fluid	<ul style="list-style-type: none"> Change. 	Every 2 years							
9	* Wheels	<ul style="list-style-type: none"> Check runout and for damage. Replace if necessary. 		√	√	√	√	√		
10	* Tires	<ul style="list-style-type: none"> Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary. 		√	√	√	√	√	√	√
11	* Wheel bearings	<ul style="list-style-type: none"> Check bearing for looseness or damage. 		√	√	√	√	√		
12	* Steering bearings	<ul style="list-style-type: none"> Check bearing assemblies for looseness. 	√	√	√	√				
		<ul style="list-style-type: none"> Moderately repack with lithium-soap-based grease. 						√		
13	* Chassis fasteners	<ul style="list-style-type: none"> Make sure that all nuts, bolts and screws are properly tightened. 		√	√	√	√	√	√	√

Periodic maintenance and adjustment

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK		
			X 1000 km							
			1	6	12	18	24			
X 1000 mi					0.6	3.5	7	10.5	14	
14	Front brake lever pivot shaft	<ul style="list-style-type: none"> Lubricate with silicone grease. 		√	√	√	√	√	√	√
15	Rear brake lever pivot shaft	<ul style="list-style-type: none"> Lubricate with lithium-soap-based grease. 		√	√	√	√	√	√	√
16	Sidestand, center-stand	<ul style="list-style-type: none"> Check operation. Lubricate with lithium-soap-based grease. 		√	√	√	√	√	√	√
17	* Sidestand switch	<ul style="list-style-type: none"> Check operation and replace if necessary. 	√	√	√	√	√	√	√	√
18	* Front fork	<ul style="list-style-type: none"> Check operation and for oil leakage. Replace if necessary. 		√	√	√	√	√		
19	* Shock absorber assembly	<ul style="list-style-type: none"> Check operation and for oil leakage. Replace if necessary. 		√	√	√	√	√		
20	Engine oil	<ul style="list-style-type: none"> Change (warm engine before draining). Check oil level and vehicle for oil leakage. 	At the initial interval and every 3000 km (1800 mi) thereafter.					√		
21	* Engine oil strainer	<ul style="list-style-type: none"> Clean. 	√							
22	* Final transmission oil	<ul style="list-style-type: none"> Check vehicle for oil leakage. 	√	√	√	√	√			
		<ul style="list-style-type: none"> Change. 	√		√		√			
23	* V-belt	<ul style="list-style-type: none"> Replace. 	Every 18000 km (10500 mi)							
24	* Front and rear brake switches	<ul style="list-style-type: none"> Check operation. 	√	√	√	√	√	√	√	√
25	* Moving parts and cables	<ul style="list-style-type: none"> Lubricate. 		√	√	√	√	√	√	√
26	* Throttle grip housing and cable	<ul style="list-style-type: none"> Check operation and free play. Adjust the throttle cable free play if necessary. Lubricate the throttle grip housing and cable. 		√	√	√	√	√	√	√
27	* Lights, signals and switches	<ul style="list-style-type: none"> Check operation. Adjust headlight beam. 	√	√	√	√	√	√	√	√

Periodic maintenance and adjustment

EAU72720

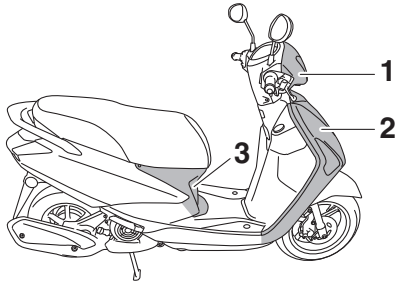
TIP

- Air filter
 - This model's air filter is equipped with a disposable oil-coated paper element, which must not be cleaned with compressed air to avoid damaging it.
 - The air filter element needs to be replaced more frequently when riding in unusually wet or dusty areas.
 - V-belt case air filter
 - The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
 - Hydraulic brake service
 - Regularly check and, if necessary, correct the brake fluid level.
 - Every two years replace the internal components of the brake master cylinder and caliper, and change the brake fluid.
 - Replace the brake hose every four years and if cracked or damaged.
-

Periodic maintenance and adjustment

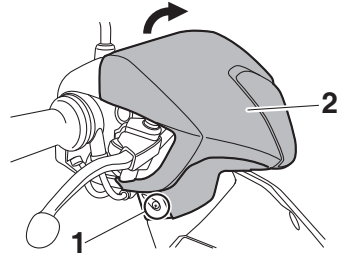
Removing and installing the cowlings and panel

EAU18732



1. Cowling A
2. Cowling B
3. Panel A

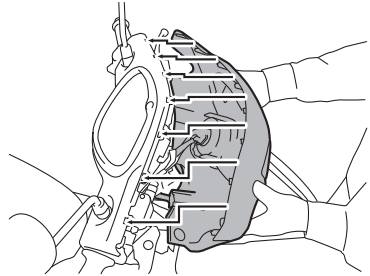
The cowlings and panel shown need to be removed to perform some of the maintenance jobs described in this chapter. Refer to this section each time a cowling or panel needs to be removed and installed.



1. Screw
2. Cowling A

To install the cowling

Connect the headlight coupler and auxiliary light coupler, place the cowling in the original position, and then install the screws.



Cowling A

To remove the cowling

Remove the screws, pull the cowling outward on the areas shown, and then disconnect the headlight coupler and auxiliary light coupler.

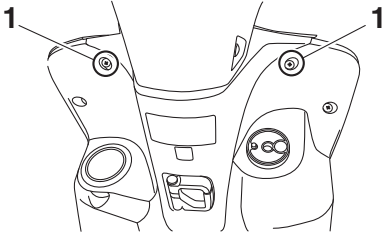
EAU0720

Cowling B

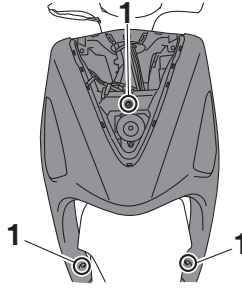
To remove the cowling

1. Remove the screws, take the front panels off as shown.

Periodic maintenance and adjustment



1. Screw

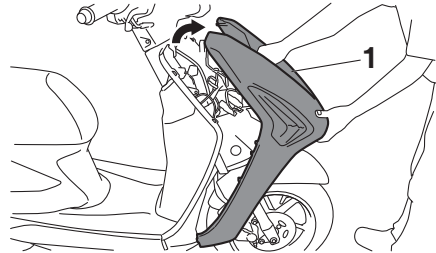


1. Screw

3. Disconnect the turn signal couplers, and then remove the cowlings as shown.



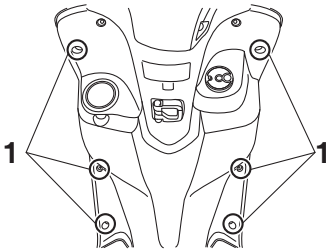
2. Disconnect the horn coupler, remove the screws, and then pull the cowl away from the vehicle.



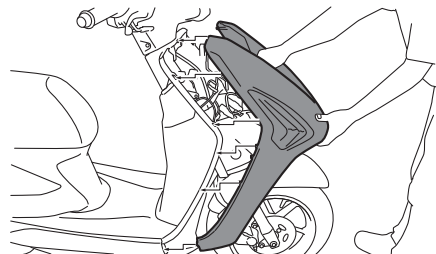
1. Cowl B

To install the cowl

1. Connect the turn signal couplers.
2. Place the cowl in the original position, install the screws, and then connect the horn coupler.



1. Screw



Periodic maintenance and adjustment

3. Place the front panels in their original position, and then install the screws.

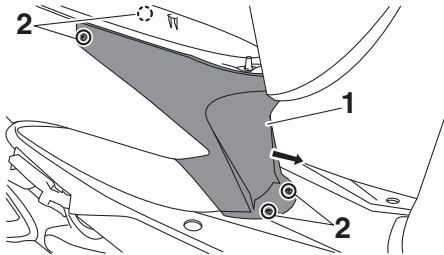
EAUT1837

Panel A

EAU19253

To remove the panel

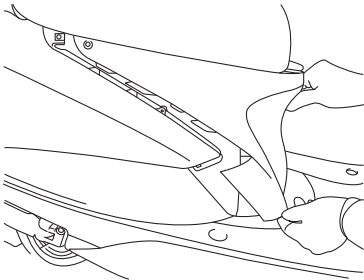
Remove the screws, and then pull the panel out at the area shown.



1. Panel A
2. Screw

To install the panel

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

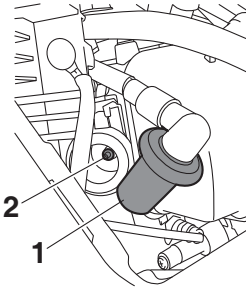


Checking the spark plug

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.

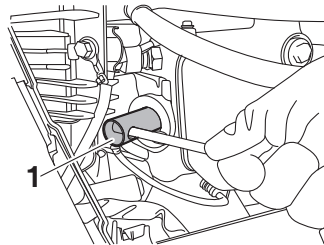
To remove the spark plug

1. Place the vehicle on the center-stand.
2. Remove panel A. (See page 6-7.)
3. Remove the spark plug cap.



1. Spark plug cap
2. Spark plug

4. Remove the spark plug as shown, with the spark plug wrench included in the owner's tool kit.



1. Spark plug wrench

Periodic maintenance and adjustment

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).

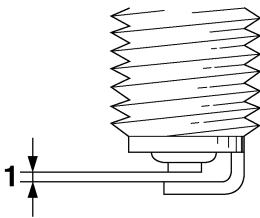
TIP

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/CR6HSA

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:
0.6–0.7 mm (0.024–0.028 in)

To install the spark plug

1. 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:
13 N·m (1.3 kgf·m, 9.4 lb·ft)

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.

Periodic maintenance and adjustment

EAU66992

Engine oil and oil strainer

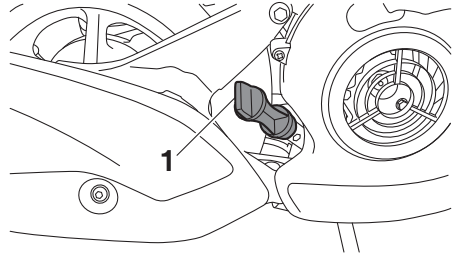
The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil strainer cleaned at the intervals specified in the periodic maintenance and lubrication chart.

To check the engine oil level

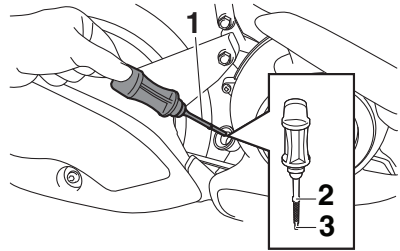
1. Place the vehicle on the center-stand. A slight tilt to the side can result in a false reading.
2. Start the engine, warm it up for several minutes, and then turn it off.
3. Wait a few minutes until the oil settles, remove the engine oil filler cap, wipe the engine oil dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level. **WARNING! The muffler and muffler protector become very hot during use. To avoid possible burns, let the muffler and protector cool before removing the oil filler cap.** [EWA17810]

TIP

The engine oil should be between the tip of the dipstick and the maximum level mark.



1. Engine oil filler cap



1. Dipstick
2. Maximum level mark
3. Tip of the engine oil dipstick

4. If the engine oil is not between the tip of the dipstick and the maximum 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.

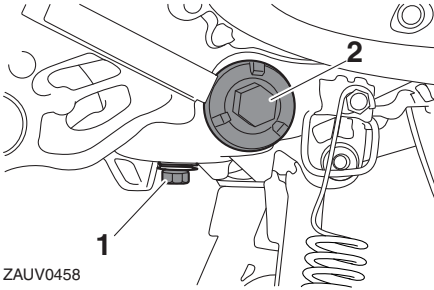
To change the engine oil and clean the oil strainer

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 engine oil drain bolts A and B to drain the oil from the crankcase.

Periodic maintenance and adjustment

NOTICE: When removing the engine oil drain bolt B, the O-ring, compression spring, and oil strainer will fall out. Take care not to lose these parts.

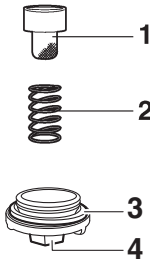
[ECAT1022]



ZAUUV0458

1. Engine oil drain bolt A
2. Engine oil drain bolt B

6



1. Oil strainer
2. Compression spring
3. O-ring
4. Engine oil drain bolt B

4. Clean the engine oil strainer with solvent, and then check it for damage and replace it if necessary.
5. Install the engine oil strainer, compression spring, new O-ring and engine oil drain bolt B.

TIP

Make sure that the O-ring is properly seated.

6. Install engine oil drain bolt A and its new gasket, and then tighten both drain bolts to their specified torques.

Tightening torque:

- Engine oil drain bolt A:
20 N·m (2.0 kgf·m, 15 lb·ft)
- Engine oil drain bolt B:
20 N·m (2.0 kgf·m, 15 lb·ft)

7. 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 quantity:

0.80 L (0.85 US qt, 0.70 Imp.qt)

TIP

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

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.

8. 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.
9. Turn the engine off, and then check the oil level and correct it if necessary.

Periodic maintenance and adjustment

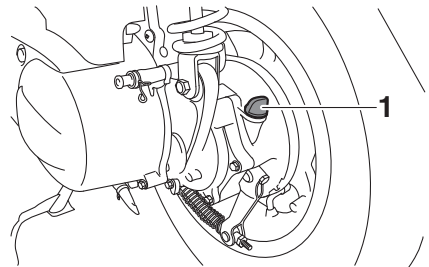
EAU60660

10. Reset the oil change tripmeter and oil change indicator "OIL". (See page 3-5 for reset procedures.)

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 vehicle. 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 vehicle for several minutes, and then stop the engine.
2. Place the vehicle on the center-stand.
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.

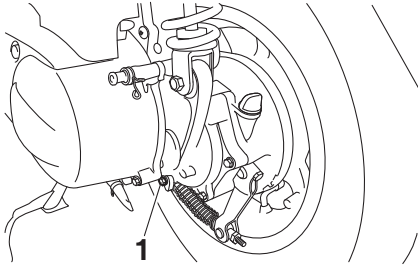


1. Final transmission oil filler cap

5. Remove the final transmission oil drain bolt and its gasket to drain the oil from the final transmission case.

Periodic maintenance and adjustment

EAAU1145



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:
13 N·m (1.3 kgf·m, 9.4 lb·ft)

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:

0.10 L (0.11 US qt, 0.09 Imp.qt)

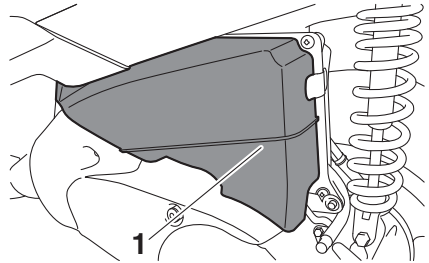
8. Install the final transmission oil filler cap and its new O-ring, and then tighten the oil filler cap.
9. Check the final transmission case for oil leakage. If oil is leaking, check for the cause.

Air filter and V-belt case air filter elements

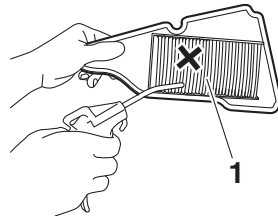
The air filter element should be replaced and the V-belt case air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Service the air filter elements more frequently if you are riding in unusually wet or dusty areas. The air filter caps and check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

Replacing the air filter element

1. Place the vehicle on the center-stand.
2. Remove the air filter case cover by removing the screws.



1. Air filter case cover
3. Remove the air filter element by pulling it out.



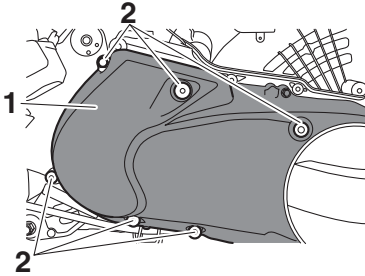
1. Air filter element

Periodic maintenance and adjustment

4. Insert a new air filter element into the air filter case.
5. Install the air filter case cover by installing the screws.

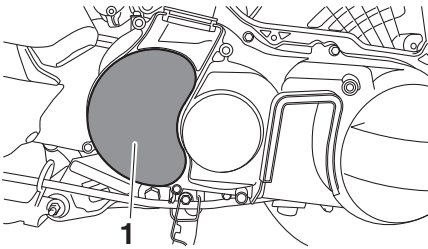
Cleaning the V-belt case air filter element

1. Place the vehicle on the center-stand.
2. Remove the V-belt air filter case cover by removing the bolts.



1. V-belt air filter case cover
2. Bolt

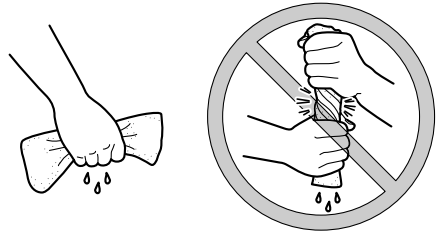
3. Remove the element by pulling it out.



1. V-belt case air filter element

4. Clean the element with solvent, and then squeeze the remaining solvent out.
5. Check the element for damage and replace it if necessary.

6. Apply oil of the recommended type to the entire surface of the element, and then squeeze the excess oil out. **WARNING!** Use only a dedicated parts cleaning solvent. To avoid the risk of fire or explosion, do not use gasoline or solvents with a low flash point. [EWA10432] **NOTICE:** To avoid damaging the air filter element, handle it gently and carefully, and do not twist it. [ECA10522]



TIP

The element should be wet but not dripping.

Recommended oil:

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

7. Install the element into the filter case.
8. Place the air filter case cover in its original position, and then install the bolts. **NOTICE:** Make sure that each filter element is properly seated in its case. The engine should never be operated without the filter elements installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn. [ECA10532]

Periodic maintenance and adjustment

EAAU1211

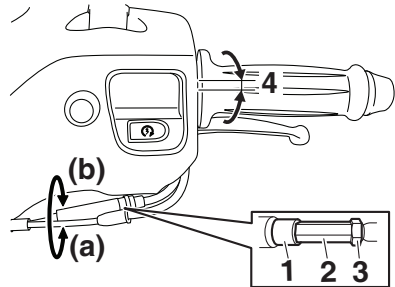
Cleaning the air filter caps and check hose

1. Check each cap at the bottom of the air filter case and the hose at the bottom of the V-belt case for accumulated dirt or water.
2. If dirt or water is visible, remove the hose or caps from their clamp.
3. Drain dirt or water into a proper container.
4. Install the air filter check hose or caps to the original position.

TIP

The air filter check hose or caps need more frequent cleaning after riding in the rain, washing the vehicle, or in case of overturn. If the check hose or caps are clogged, have a Yamaha dealer service the vehicle.

Adjusting the throttle grip free play



1. Rubber cover
2. Throttle grip free play adjusting nut
3. Locknut
4. Throttle grip free play

The throttle grip free play should measure 3.0–7.0 mm (0.12–0.28 in) as shown. Periodically check the throttle grip free play and, if necessary, adjust it as follows.

1. Loosen the locknut.
2. To increase the throttle grip free play, turn the adjusting nut in direction (a). To decrease the throttle grip free play, turn the adjusting nut in direction (b).
3. Tighten the locknut.

Periodic maintenance and adjustment

EAU21402

EAU79470

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.

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



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

- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).
 - The tire air pressure must be adjusted in accordance with the riding speed and with the total weight of rider, passenger, cargo, and accessories approved for this model.
-

Periodic maintenance and adjustment

Tire air pressure (measured on cold tires):

1 person:

Front:

175 kPa (1.75 kgf/cm², 25 psi)

Rear:

200 kPa (2.00 kgf/cm², 29 psi)

2 persons:

Front:

175 kPa (1.75 kgf/cm², 25 psi)

Rear:

200 kPa (2.00 kgf/cm², 29 psi)

Maximum load*:

161 kg (355 lb)

* Total weight of rider, passenger, cargo and accessories

Minimum tire tread depth (front and rear):

1.6 mm (0.06 in)

TIP

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

EWA10472

WARNING

- Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the vehicle with excessively worn tires decreases riding stability and can lead to loss of control.
- The replacement of all wheel and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience to do so.
- Ride at moderate speeds after changing a tire since the tire surface must first be “broken in” for it to develop its optimal characteristics.

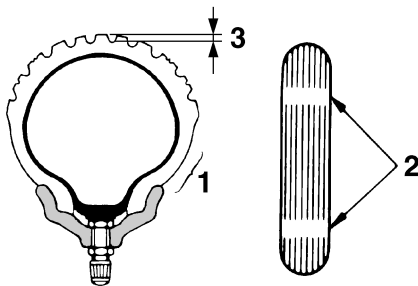
WARNING

EWA10512

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

6

Tire inspection



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

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

Tire information

This model is equipped with tubeless tires and rubber 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.

Periodic maintenance and adjustment

EWA10462

EAU21963

WARNING

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

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

Front tire:

Size:

90/90-12 M/C 44J

Manufacturer/model:

MAXXIS/M6219

Rear tire:

Size:

100/90-10 M/C 56J

Manufacturer/model:

MAXXIS/M6220

Cast wheels

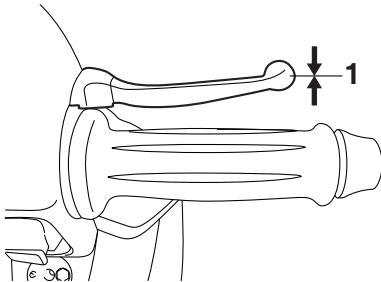
To maximize the performance, durability, and safe operation of your vehicle, note the following points regarding the specified wheels.

- 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.

Periodic maintenance and adjustment

Checking the brake lever free play

EAU37914



1. No brake lever free play

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

EWA14212

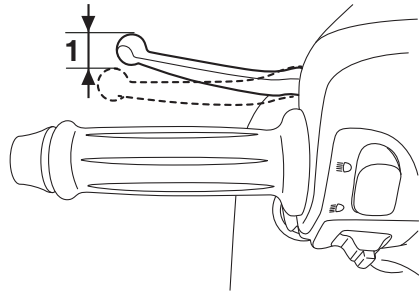
WARNING

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

Adjusting the rear brake lever free play

EAU22172

Measure the rear brake lever free play as shown.

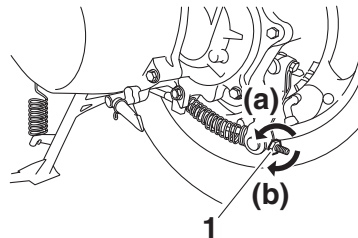


1. Rear brake lever free play

Rear brake lever free play:
10.0–20.0 mm (0.39–0.79 in)

Periodically check the brake lever free play and, if necessary, adjust it as follows.

To increase the brake lever free play, turn the adjusting nut at the brake shoe plate in direction (a). To decrease the brake lever free play, turn the adjusting nut in direction (b).



1. Rear brake lever free play adjusting nut

Periodic maintenance and adjustment

EWA10651

EAU22382

! WARNING

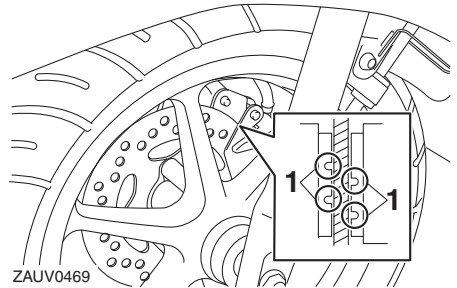
If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.

Checking the front brake pads and rear brake shoes

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

EAU22432

Front brake pads



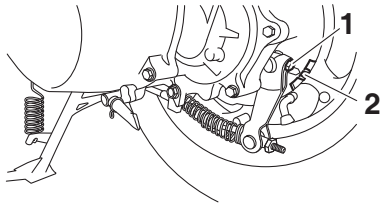
1. Front brake pad wear indicator groove

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

Periodic maintenance and adjustment

Rear brake shoes

EAU22541

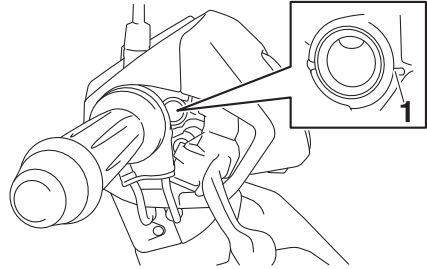


1. Brake shoe wear indicator
2. Brake shoe wear limit line

The rear brake is provided with a wear indicator, which allows you to check the brake shoe wear without having to disassemble the brake. To check the brake shoe wear, check the position of the wear indicator while applying the brake. If a brake shoe has worn to the point that the wear indicator reaches the wear limit line, have a Yamaha dealer replace the brake shoes as a set.

Checking the brake fluid level

EAU0831



1. Minimum level mark

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective.

Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

Observe these precautions:

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

Recommended brake fluid:
YAMAHA GENUINE BRAKE FLUID
or equivalent DOT3 or DOT4

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

Periodic maintenance and adjustment

EAU22724

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

Changing the brake fluid

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 brake master cylinder and caliper as well as the brake hose replaced at the intervals listed below or whenever they are damaged or leaking.

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

Periodic maintenance and adjustment

EAUU0311

Checking the V-belt

The V-belt must be checked and replaced by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

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

Periodic maintenance and adjustment

EAU23115

EAU43643

Checking and lubricating the throttle grip and cable

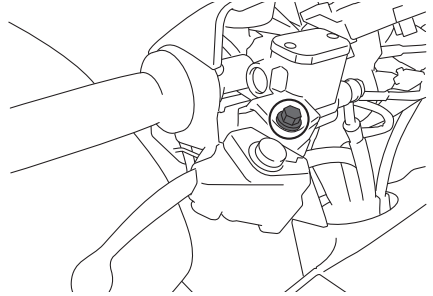
The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance chart.

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

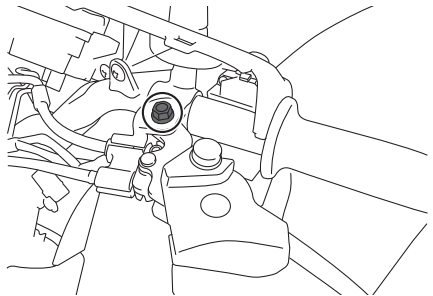
Lubricating the front and rear brake levers

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

Front brake lever



Rear brake lever



Recommended lubricants:

Front brake lever:

Silicone grease

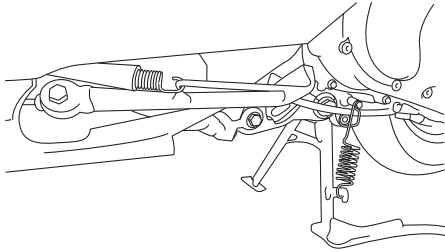
Rear brake lever:

Lithium-soap-based grease

Periodic maintenance and adjustment

Checking and lubricating the centerstand and sidestand

EAU23215



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

6

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

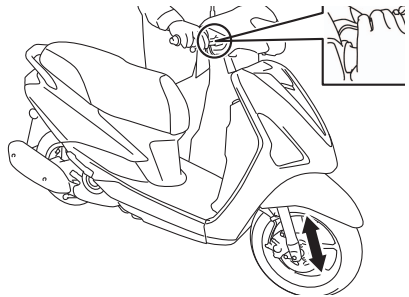
The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

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.

Periodic maintenance and adjustment

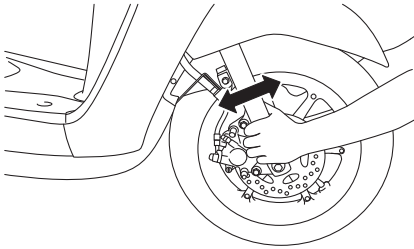
EAU45512

EAU23292

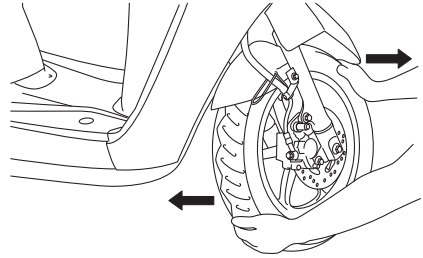
Checking the steering

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 center-stand. **WARNING! To avoid injury, 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.



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.

Periodic maintenance and adjustment

EAUM1391

EAU50292

Removing the battery cover

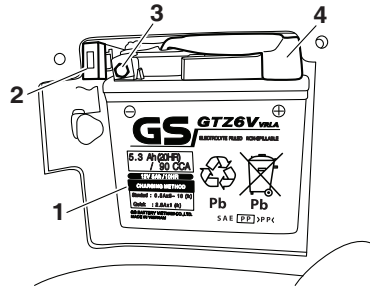
To remove the battery cover

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

To install the cover

1. Place the cover in the original position, and then install the screws.
2. Close the seat.

Battery



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

The battery is located under the seat. (See page 3-11.)

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

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 always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
 - **EXTERNAL:** Flush with plenty of water.
 - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.

Periodic maintenance and adjustment

- **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
 - **Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.**
 - **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**
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 to turn the main switch off, then connect the positive lead before connecting the negative lead.**
[ECA16842]
 4. After installation, make sure that the battery leads are properly connected to the battery terminals.
ECA16531

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.

ECA16522

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

1. If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
NOTICE: When removing the battery, be sure to turn the main switch off, then disconnect the negative lead before disconnecting the positive lead.[ECA16304]

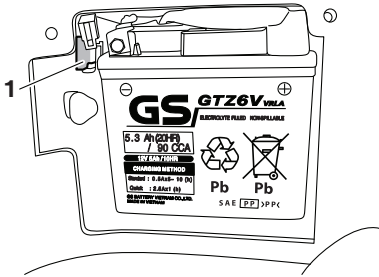
NOTICE

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

Periodic maintenance and adjustment

Replacing the fuse

EAU23485



1. Main fuse

The fuse holder is located under the seat. (See page 3-11.)

If the fuse is blown, replace it as follows.

1. Turn the key to "OFF" and turn off all electrical circuits.
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 fuse:

15.0 A

3. Turn the key to "ON" and turn on the electrical circuits to check if the devices operate.
4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

Replacing the headlight bulb

EAU23855

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

ECA10651

NOTICE

Take care not to damage the following parts:

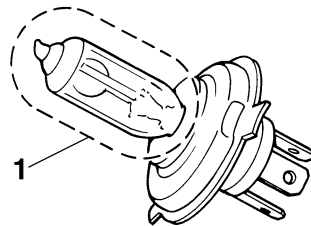
● Headlight bulb

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

● Headlight lens

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

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

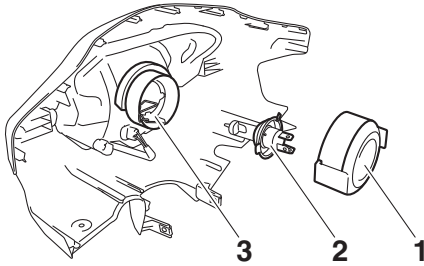


1. Do not touch the glass part of the bulb.

1. Remove cowling A together with the headlight unit. (See page 6-7.)
2. Disconnect the headlight coupler, and then remove the bulb cover.

Periodic maintenance and adjustment

EAUM1823



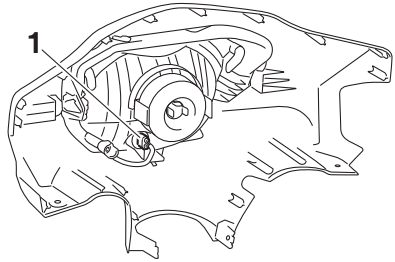
1. Headlight bulb cover
2. Headlight bulb
3. Headlight bulb holder

3. Unhook the headlight bulb holder, and then remove the burnt-out bulb.
4. Place a new headlight bulb into position, and then secure it with the bulb holder.
5. Install the headlight bulb cover, and then connect the coupler.
6. Install the cowling together with the headlight unit.
7. Have a Yamaha dealer adjust the headlight beam if necessary.

Replacing an auxiliary light bulb

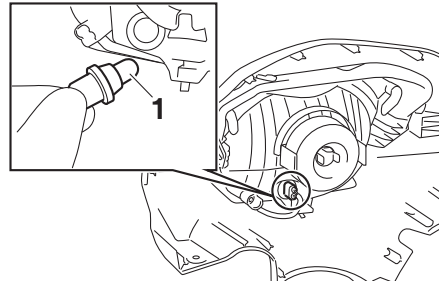
If the auxiliary light bulb burns out, replace it as follows.

1. Remove cowling together with the headlight unit. (See page 6-7.)
2. Remove the auxiliary light bulb socket (together with the bulb) by pulling it out.



1. Auxiliary light bulb socket

3. Remove the burnt out bulb by pulling it out.



1. Auxiliary light bulb

4. Insert a new bulb into the socket.
5. Install the socket (together with the bulb) by pushing it in.
6. Install the cowling together with the headlight unit.

Periodic maintenance and adjustment

Tail/brake light

EAU43041

If the tail/brake light does not come on, have a Yamaha dealer check its electrical circuit or replace the bulb.

Replacing a front turn signal light bulb

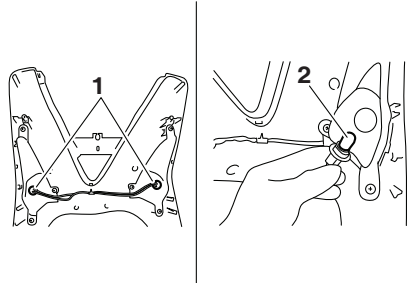
EAU56930

ECA10671

NOTICE

It is advisable to have a Yamaha dealer perform this job.

1. Place the scooter on the center-stand.
2. Remove cowling B. (See page 6-7.)
3. Remove the turn signal light bulb socket (together with the bulb) by turning it counterclockwise.



1. Turn signal light bulb socket
2. Turn signal light bulb
4. Remove the burnt-out bulb by pulling it out.
5. Insert a new bulb into the socket.
6. Install the socket (together with the bulb) by turning it clockwise.
7. Install the cowling.

Periodic maintenance and adjustment

EAUT1331

EAU25853

Rear turn signal light bulb

If a rear turn signal light does not come on, have a Yamaha dealer check the electrical circuit or replace the bulb.

Troubleshooting

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

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

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

EWA15142

WARNING

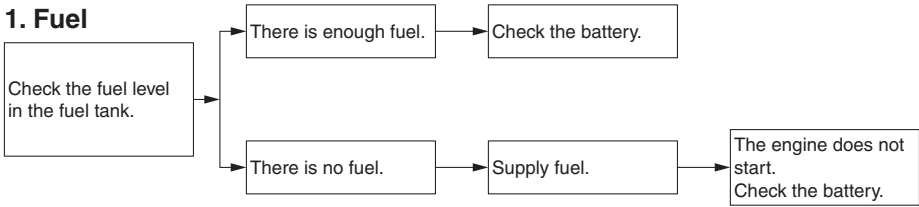
When checking the fuel system, do not smoke, and make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces. Gasoline or gasoline vapors can ignite or explode, causing severe injury or property damage.

Periodic maintenance and adjustment

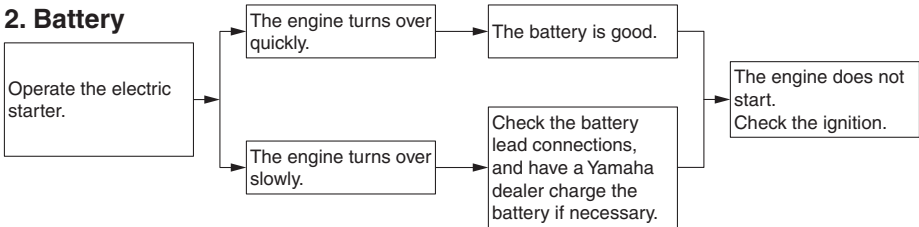
EAU67910

Troubleshooting chart

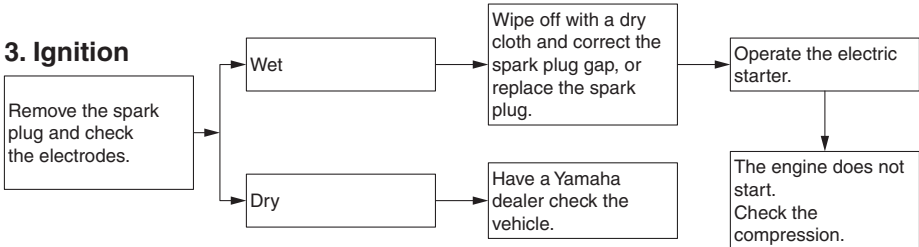
1. Fuel



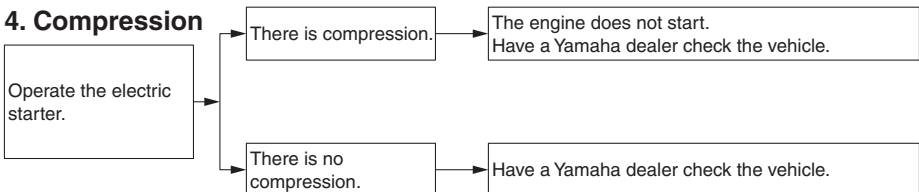
2. Battery



3. Ignition



4. Compression



EAU26096

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.
3. Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such products onto seals, gaskets and wheel axles. Always rinse the dirt and degreaser off with water.

Cleaning

ECA10784

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 in-**

structed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.

- **Improper cleaning can damage plastic parts (such as cowlings, panels, windshields, headlight lenses, meter lenses, etc.) and the mufflers. Use only a soft, clean cloth or sponge with water to clean plastic. However, if the plastic parts cannot be thoroughly cleaned with water, diluted mild detergent with water may be used. Be sure to rinse off any detergent residue using plenty of water, as it is harmful to plastic parts.**
- **Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.**
- **Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and swing-arm 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**

Motorcycle care and storage

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

After normal use

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

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

Since sea salt or salt sprayed on 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.

1. 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.

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.

WARNING

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

- **Make sure that there is no oil or wax on the brakes or tires. If necessary, clean the brake discs and brake linings with a regular brake disc cleaner or acetone, and wash the tires with warm water and a mild detergent.**
- **Before 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.

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.

ECA10821

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

Motorcycle care and storage

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 side-stand/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 6-28.

TIP

Make any necessary repairs before storing the scooter.

Dimensions:

- Overall length:
1805 mm (71.1 in)
- Overall width:
685 mm (27.0 in)
- Overall height:
1145 mm (45.1 in)
- Seat height:
800 mm (31.5 in)
- Wheelbase:
1275 mm (50.2 in)
- Ground clearance:
125 mm (4.92 in)
- Minimum turning radius:
1900 mm (74.8 in)

Weight:

- Curb weight:
99 kg (218 lb)

Engine:

- Engine type:
Air cooled 4-stroke, SOHC
- Cylinder arrangement:
Single cylinder
- Displacement:
125 cm³
- Bore × stroke:
52.4 × 57.9 mm (2.06 × 2.28 in)
- Compression ratio:
11.0 : 1
- Starting system:
Electric starter
- Lubrication system:
Wet sump

Engine oil:

- Recommended brand:
YAMALUBE
- Type:
SAE 10W-40
- Recommended engine oil grade:
API service SG type or higher, JASO standard MB
- Engine oil quantity:
Periodic oil change:
0.80 L (0.85 US qt, 0.70 Imp.qt)

Final transmission oil:

- Type:
SAE 10W-30 type SE motor oil
- Quantity:
0.10 L (0.11 US qt, 0.09 Imp.qt)

Air filter:

- Air filter element:
Oil-coated paper element
- V-belt filter element:
Wet element

Fuel:

- Recommended fuel:
Regular unleaded gasoline (Gasohol (E10) acceptable)
- Fuel tank capacity:
5.5 L (1.45 US gal, 1.21 Imp.gal)

Fuel injection:

- Throttle body:
ID mark:
BW51 00

Spark plug(s):

- Manufacturer/model:
NGK/CR6HSA
- Spark plug gap:
0.6–0.7 mm (0.024–0.028 in)

Clutch:

- Clutch type:
Dry, centrifugal automatic

Transmission:

- Primary reduction ratio:
1.000
- Final drive:
Gear
- Secondary reduction ratio:
7.500 (50/16 × 36/15)
- Transmission type:
V-belt automatic

Chassis:

- Frame type:
Underbone
- Caster angle:
26.5 °
- Trail:
81 mm (3.2 in)

Front tire:

- Type:
Tubeless
- Size:
90/90-12 M/C 44J
- Manufacturer/model:
MAXXIS/M6219

Rear tire:

- Type:
Tubeless

Specifications

Size:
100/90-10 M/C 56J
Manufacturer/model:
MAXXIS/M6220

Loading:

Maximum load:
161 kg (355 lb)
(Total weight of rider, passenger, cargo
and accessories)

Tire air pressure (measured on cold tires):

Front (1 person):
175 kPa (1.75 kgf/cm², 25 psi)
Rear (1 person):
200 kPa (2.00 kgf/cm², 29 psi)
Front (2 persons):
175 kPa (1.75 kgf/cm², 25 psi)
Rear (2 persons):
200 kPa (2.00 kgf/cm², 29 psi)

Front wheel:

Wheel type:
Cast wheel
Rim size:
J12 x MT2.50

Rear wheel:

Wheel type:
Cast wheel
Rim size:
J10 x MT2.50

Front brake:

Type:
Single disc brake
Specified brake fluid:
DOT 3 or 4

Rear brake:

Type:
Drum brake

Front suspension:

Type:
Telescopic fork
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
81 mm (3.2 in)

Rear suspension:

Type:
Swingarm
Spring/shock absorber type:
Coil spring/oil damper

Wheel travel:
68 mm (2.7 in)

Electrical system:

System voltage:
12 V
Ignition system:
TCI
Charging system:
AC magneto

Battery:

Model:
GTZ6V
Voltage, capacity:
12 V, 5.0 Ah

Headlight:

Bulb type:
Halogen bulb

Bulb voltage, wattage × quantity:

Headlight:
12 V, 35.0 W/35.0 W × 1
Tail/brake light:
12 V, 5.0 W/21.0 W × 1
Front turn signal light:
12 V, 10.0 W × 2
Rear turn signal light:
12 V, 10.0 W × 2
Auxiliary light:
12 V, 5.0 W
Meter lighting:
LED
High beam indicator light:
LED
Turn signal indicator light:
LED
Engine trouble warning light:
LED
ECO indicator light:
LED

Fuse:

Main fuse:
15.0 A

Identification numbers

EAU53562

Record the vehicle identification number, engine serial number, and the model label information 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.

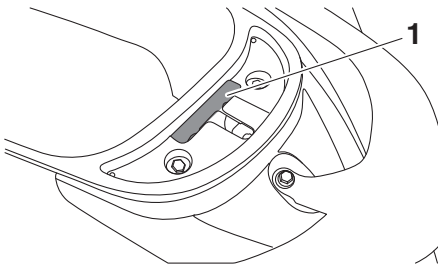
VEHICLE IDENTIFICATION NUMBER:

ENGINE SERIAL NUMBER:

MODEL LABEL INFORMATION:

Vehicle identification number

EAU62971



1. Vehicle identification number

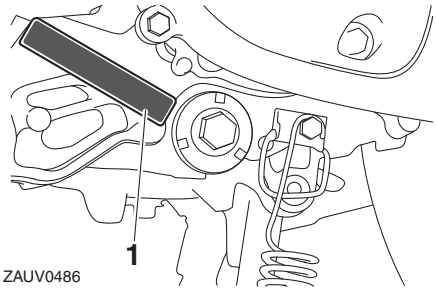
The vehicle identification number is stamped into the frame under the passenger seat.

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

EAU11221



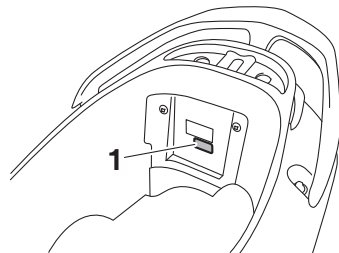
ZAUU0486

1. Engine serial number

The engine serial number is stamped on the bottom left side of the crankcase.

Model label

EAU26542



1. Model label

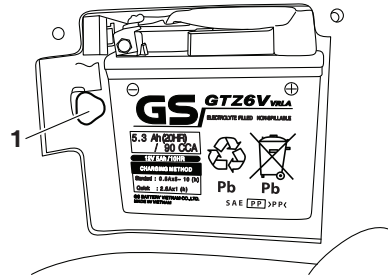
The model label is affixed to the frame under the seat. (See page 3-11.) Record the information on this label in the

Consumer information

space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU69910

Diagnostic connector



1. Diagnostic connector

The diagnostic connector is located as shown.

EAU74701

Vehicle data recording

This model's ECU stores certain vehicle data to assist in the diagnosis of malfunctions and for research and development purposes. This data will be uploaded only when a special Yamaha diagnostic tool is attached to the vehicle, such as when maintenance checks or service procedures are performed.

Although the sensors and recorded data will vary by model, the main data points are:

- Vehicle status and engine performance data
- Fuel-injection and emission-related data

Yamaha will not disclose this data to a third party except:

- With the consent of the vehicle owner
- Where obligated by law
- For use by Yamaha in litigation
- For general Yamaha-conducted research purposes when the data is not related to an individual vehicle nor owner

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