



⚠ Read this manual carefully before operating this vehicle.

OWNER'S MANUAL

**GRAND**

*filano*

**LTF125-I/LTF125-A**

**BJK-F8199-E2 ●**



nanb.

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ใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม  
หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช.  
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 **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 LTF125-I/LTF125-A, 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 LTF125-I/LTF125-A. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your motorcycle, but also in how to safeguard yourself and others from trouble and injury.

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

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

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

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 **WARNING**

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




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# Important manual information

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

	<b>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.</b>
	<b>A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.</b>
	<b>A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property.</b>
<b>TIP</b>	A TIP provides key information to make procedures easier or clearer.

\*Product and specifications are subject to change without notice.

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**LTF125-I/LTF125-A  
OWNER'S MANUAL**  
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1st edition, January 2026  
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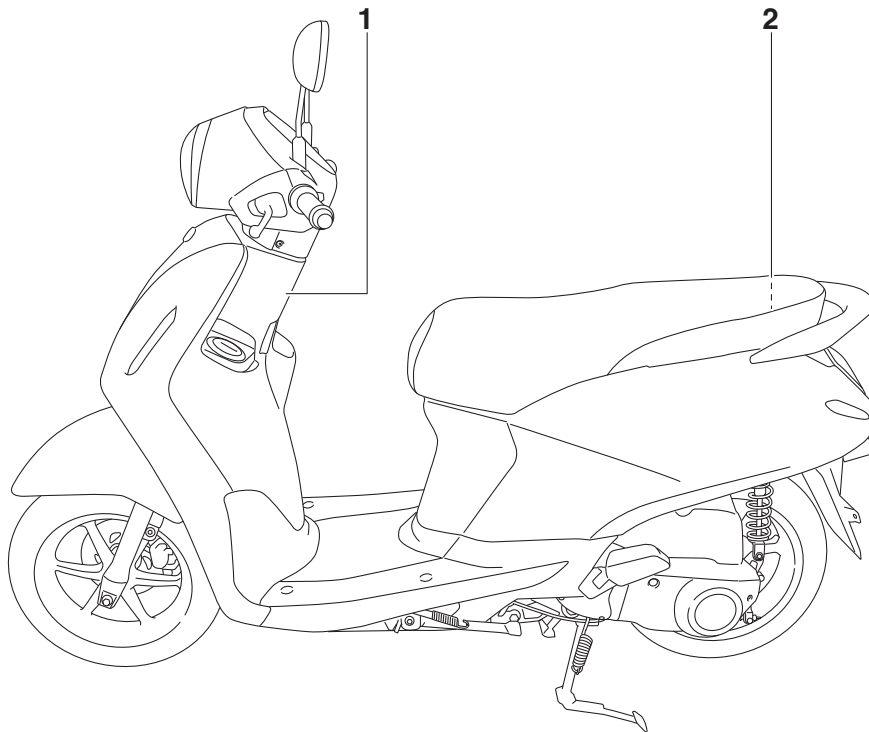
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# Location of important labels

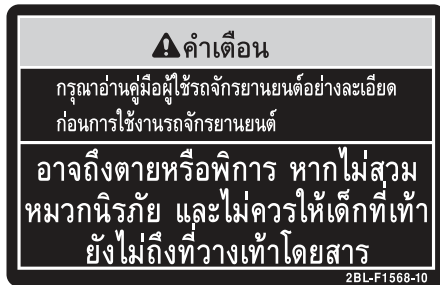
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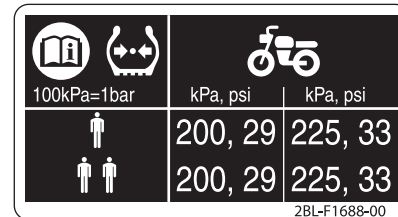
Read and understand all of the labels on your vehicle. They contain important information for safe and proper operation of your vehicle. Never remove any labels from your vehicle. If a label becomes difficult to read or comes off, a replacement label is available from your Yamaha dealer.



1



2



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2

## 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 8-1 for a list of pre-operation checks.

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

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

## Therefore:

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

- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current driver's license.
  - Make sure that you are qualified and that you only lend your scooter to other qualified operators.
  - Know your skills and limits. Staying within your limits may help you to avoid an accident.
  - We recommend that you 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.

## Safety information

2

### **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.**

#### **Maximum load:**

160 kg (353 lb)

When loading within this weight limit, keep the following in mind:

- Cargo and accessory weight should be kept as low and close to the scooter as possible. Securely pack your heaviest items as close to the center of the vehicle as possible and make sure to distribute the weight as evenly as possible on both sides of the scooter to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the scooter before riding. Check accessory mounts and cargo restraints frequently.
- Properly adjust the suspension for your load (suspension-adjustable models only), and check the condition and 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.**

### **Genuine Yamaha Accessories**

Choosing accessories for your vehicle is an important decision. Genuine Yamaha accessories, which are available only from a Yamaha dealer, have been designed, tested, and approved by Yamaha for use on your vehicle.

Many companies with no connection to Yamaha manufacture parts and accessories or offer other modifications for Yamaha vehicles. Yamaha is not in a position to test the products that these aftermarket companies produce. Therefore, Yamaha can neither endorse nor recommend the use of accessories not sold by Yamaha or modifications not specifically recommended by Yamaha, even if sold and installed by a Yamaha dealer.

### **Aftermarket Parts, Accessories, and Modifications**

While you may find aftermarket products similar in design and quality to genuine Yamaha accessories, recognize that some aftermarket accessories or modifications are not suitable because of potential safety hazards to you or others. Installing aftermarket

products or having other modifications performed to your vehicle that change any of the vehicle's design or operation characteristics can put you and others at greater risk of serious injury or death. You are responsible for injuries related to changes in the vehicle.

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

- Never install accessories or carry cargo that would impair the performance of your scooter. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.
- Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.

- Bulky or large accessories may seriously affect the stability of the scooter due to aerodynamic effects. Wind may attempt to lift the scooter, or the scooter may become unstable in cross winds. These accessories may also cause instability when passing or being passed by large vehicles.
- Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability, therefore, such accessories are not recommended.
- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the scooter's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

## Safety information

2

### 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 10-17 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 lo-

cation 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.

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### Further safe-riding points

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

- Always wear a helmet, gloves, trousers (tapered around the cuff and ankle so they do not flap), and a brightly colored jacket.
- Do not carry too much luggage on the scooter. An overloaded scooter is unstable. Use a strong cord to secure any luggage to the carrier (if equipped). A loose load will affect the stability of the scooter and could divert your attention from the road. (See page 2-3.)

## Helmet

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Operating this vehicle without an approved motorcycle helmet increases your chances of a severe head injury or death in the event of an accident. The majority of fatalities from motorcycle or 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 select an approved motorcycle helmet

Pay attention to the following when choosing a motorcycle helmet.

- The helmet must meet the safety standard “TIS”.
- The helmet size must match the size of the rider’s head.
- Never subject a helmet to heavy shocks.

### Wearing the helmet correctly

Always connect the chin strap. In the case of an accident, the helmet has a much less chance of coming off if the chin strap is connected.

### Correct usage



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### Wrong usage



ZAUU0007

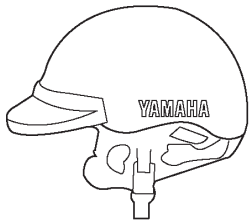
### Types of helmets and their usage

- Half-type: use only for riding at low speeds

## Safety information

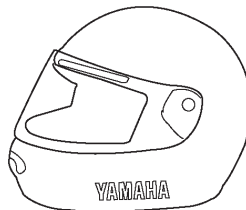
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2



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- Full-type: use only for riding at low to mid-range speeds



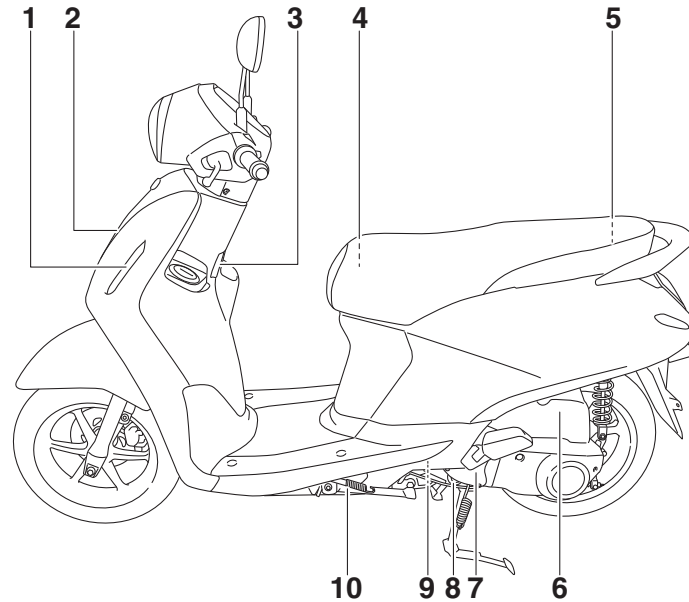
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ZAUU0005

- Full-face-type: use for riding at mid-range to high speeds

## Left view



1. Front turn signal light
2. Auxiliary light (page 10-29)
3. Luggage hook (page 7-22)
4. Tool kit (page 10-1)
5. Fuse box (page 10-27)
6. Air filter element (page 10-14)
7. V-belt case air filter element (page 10-14)
8. Engine oil drain bolt A (page 10-10)

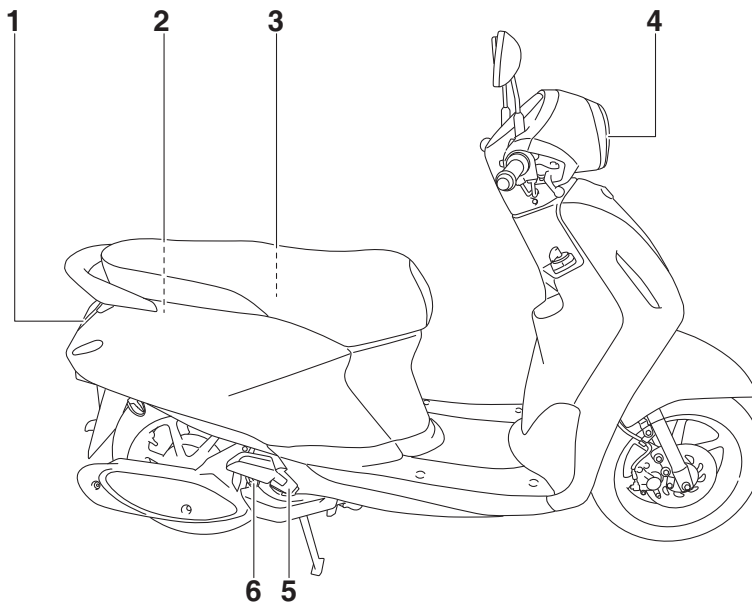
9. Engine oil drain bolt B (page 10-10)
10. Sidestand

# Description

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## Right view

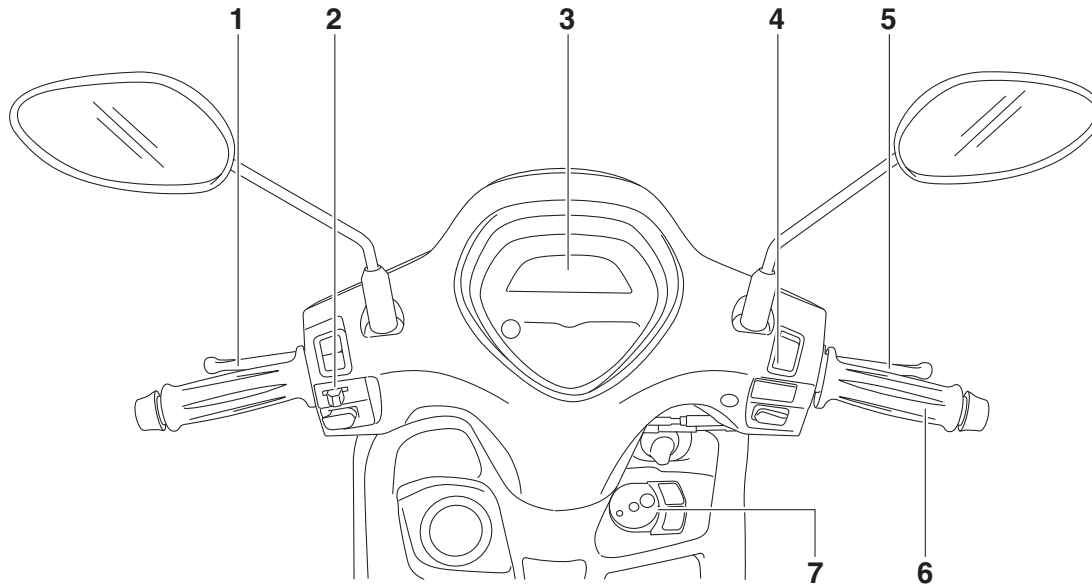
3



1. Tail/brake light
2. Battery (page 10-26)
3. Storage compartment (page 7-21)
4. Headlight (page 10-29)
5. Passenger footrest (page 7-20)
6. Engine oil filler cap (page 10-10)

## Controls and instruments

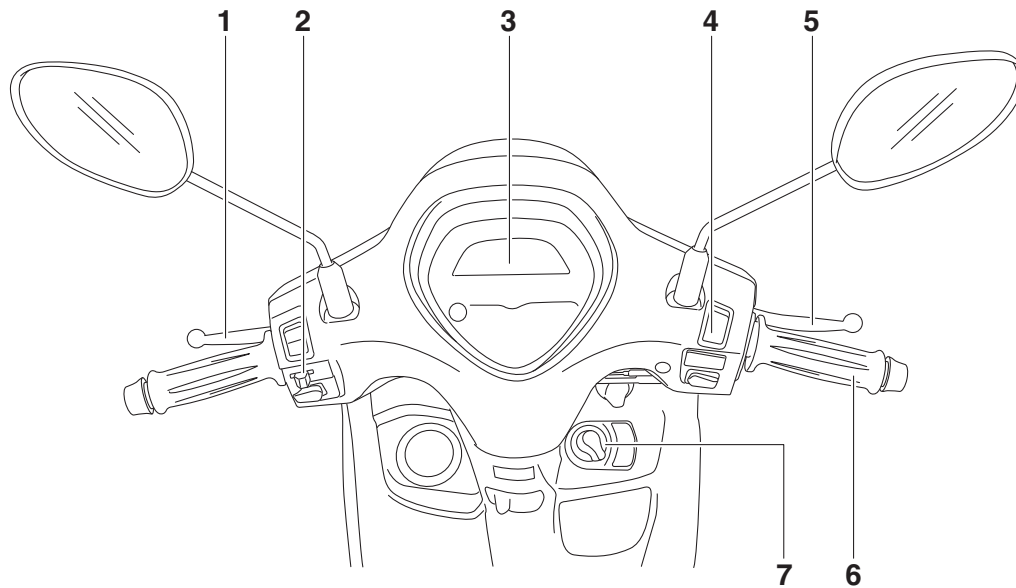
### LTF125-I



1. Rear brake lever (page 7-14)
2. Left handlebar switches (page 7-13)
3. Multi-function meter unit (page 7-8)
4. Right handlebar switches (page 7-13)
5. Front brake lever (page 7-14)
6. Throttle grip (page 10-16)
7. Main switch/steering lock (page 7-4/7-1)

# Description

LTF125-A



1. Rear brake lever (page 7-14)
2. Left handlebar switches (page 7-13)
3. Multi-function meter unit (page 7-8)
4. Right handlebar switches (page 7-13)
5. Front brake lever (page 7-14)
6. Throttle grip (page 10-16)
7. Main switch/steering lock (page 7-4/7-1)

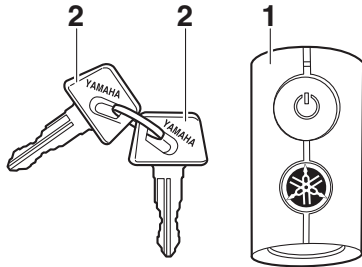
## Smart key system

The smart key system enables you to operate the vehicle without using a mechanical key.

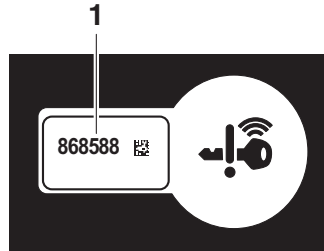
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Included with the vehicle is one smart key, two mechanical keys, and one identification number card.



1. Smart key
2. Mechanical key



1. Identification number card

EWA22271

### **! WARNING**

- **KEEP OUT OF REACH OF CHILDREN**  
The smart key contains a coin/button cell battery.
- **Swallowing can lead to chemical burns, perforation of soft tissue, and death, Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately.**

### TIP

- You can register up to six smart keys for the same vehicle. See a Yamaha dealer regarding spare smart keys.
- If a smart key is lost, contact a Yamaha dealer immediately to prevent the vehicle from being stolen.

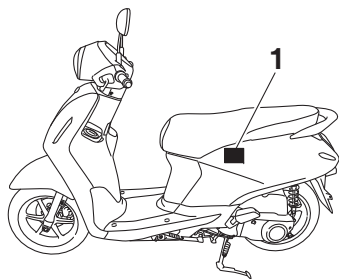
If the vehicle battery is discharged, the mechanical key can be used to open the seat. **Carry one mechanical key in addition to the smart key.**

If the smart key is lost or the smart key battery has discharged, the identification number can be used to operate the vehicle in emergency mode. (See page 10-34.) **Write down the identification number in case of emergency.**

If the smart key(s) and identification number card(s) are all lost or damaged, and there is no record of the identification number, the entire smart key system will need to be replaced.

# Smart key system (LTF125-A)

4



1. Vehicle mounted antenna

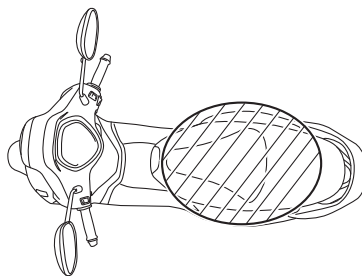
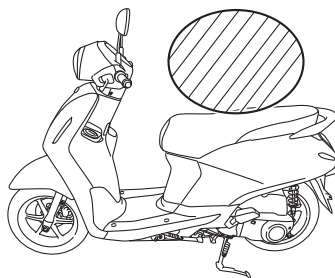
EWA14704

## **WARNING**

- Keep implanted pacemakers or cardiac defibrillators, as well as other electric medical devices away from the vehicle mounted antenna (see illustration).
- Radio waves transmitted by the antenna may affect the operation of such devices when close by.
- If you have an electric medical device, consult a doctor or the device manufacturer before using this vehicle.

## Operating range of the smart key system

The approximate operating range of the smart key system is shown below.



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## **NOTICE**

- The smart key should be carried with you. Do not store it on the vehicle.

- When the smart key is within operating range, exercise due care because other people not carrying the smart key can start the engine and operate the vehicle.

If the smart key is turned off, the vehicle will not recognize the smart key even if it is within operating range. If the smart key battery is discharged, the smart key system may not work or its operating range may become very short.

## **TIP**

- Do not place the smart key in a storage compartment.
- Always carry the smart key with you.
- Turn the smart key off when leaving the vehicle.
- The smart key system uses weak radio waves. The smart key system may not work in the following situations:
  - The smart key is placed in a location exposed to strong radio waves or other electromagnetic noise

- There are facilities nearby that are emitting strong radio waves (TV or radio towers, power plants, broadcasting stations, airports, etc.)
  - You are carrying or using communication equipment such as radios or mobile phones in close proximity of the smart key
  - The smart key is in contact with or covered by a metallic object
  - Other vehicles equipped with a smart key system are nearby
- In such situations, move the smart key to another location and perform the operation again. If it still does not work, operate the vehicle in emergency mode. (See page 10-34.)
- To preserve vehicle battery power, the smart key system turns off approximately 9 days after the vehicle was last used. In this situation, simply push the main switch knob to turn the smart key system back on.

## NOTICE

The smart key has precision electronic components. Observe the following precautions to prevent possible malfunction or damage.

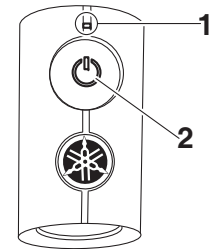
- Do not place or store the smart key in a storage compartment. The smart key may be damaged from road vibrations or excessive heat.
- Do not drop, bend, or subject the smart key to strong impacts.
- Do not submerge the smart key in water or other liquids.
- Do not place heavy items or excessive stress on the smart key.
- Do not leave the smart key in a place exposed to direct sunlight, high temperature or high humidity.
- Do not grind or attempt to modify the smart key.
- Keep the smart key away from strong magnetic fields and magnetic objects such as key holders, TVs, and computers.
- Keep the smart key away from electric medical equipment.

ECA21573

- Do not allow oils, polishing agents, fuel, or any strong chemicals to come in contact with the smart key. The smart key body may become discolored or cracked.

## Using the smart key

EUA8710



1. Smart key indicator light
2. Smart key button

When the smart key is turned on and brought within range, the smart key system allows you to operate the vehicle without inserting a mechanical key. If the smart key is turned off, the vehicle cannot be operated even if the smart key is within operating range of the vehicle.

# Smart key system (LTF125-A)

The current status of the key can be checked by briefly pressing the smart key button.

- Short flash: the key is on
- Long flash: the key is off

## To turn the smart key on or off

To turn the smart key on or off, press the smart key button for one second. The smart key indicator light will flash. If the key does a short flash, the key is on. If the key does a long flash, the key is off.

EAUA8560

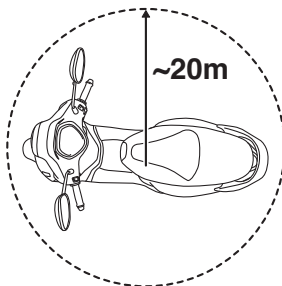
## **Remote answer-back function**

The smart key system is equipped with an answer-back function to help you locate the vehicle in parking lots.

Push the smart key button to operate the answer-back function remotely. The beeper will sound twice and all of the turn signal lights will flash twice. This feature is convenient for locating your vehicle in parking lots and other areas.

## Operating range of the answer-back function

The approximate operating range of the answer-back function is as shown.



As the smart key system uses weak radio waves, the operating range may be affected by the surrounding environment.

## To turn the answer-back beeper on or off

The beeper, which sounds when the answer-back function is operated, can be turned on or off according to the following procedure.

1. Turn the smart key on and bring it within operating range.

2. Turn the main switch to “OFF”, and then push the main switch knob once.
3. Within 9 seconds of pushing the knob, push and hold the knob again for 5 seconds.
4. When the beeper sounds, the setting is complete.

If the beeper:

- Sounds twice: The beeper is turned off.
- Sounds once: The beeper is turned on.

## **TIP**

If the answer-back function does not operate when the smart key button is pressed, the smart key battery may need to be changed.

EAUA603

## **Smart key battery**

Replace the smart key battery if any of the following occur:

- The smart key system indicator light (page 7-7) flashes for about 20 seconds when the vehicle power is turned on.

# Smart key system (LTF125-A)

- The smart key indicator light does not flash when the smart key button is pressed.

Specified battery:  
CR2032  
Nominal voltage:  
3 V

EWA22830

## **WARNING**

**This battery contains combustible materials such as lithium metal and organic electrolyte. The following cautions should be followed in order to use this battery safely:**

- Do not short circuit the battery
- Do not charge the battery
- Do not soak the battery in water
- Do not deform or damage the battery
- Do not modify the battery in any way

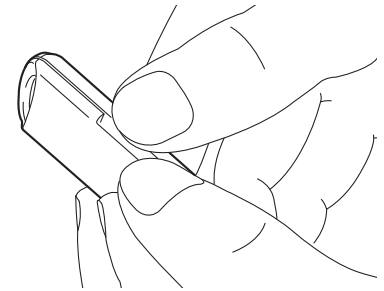
## **TIP**

- The smart key battery life is approximately two years, but this may vary according to operating conditions.

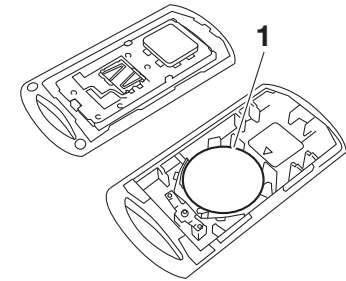
- The smart key battery may become discharged even if it is away from the vehicle and not being used.
- If the smart key continually receives radio waves, the smart key battery will discharge quickly. (For example, when placed in the vicinity of electrical products such as televisions, radios, or computers.)
- After changing the smart key battery, if the smart key system still does not operate, have a Yamaha dealer check the vehicle.

## To replace the smart key battery

1. Gently pry open the smart key case as shown. Otherwise, have a Yamaha dealer replace the battery.



2. Remove the battery.



1. Battery

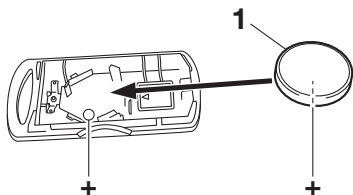
## **TIP**

Dispose of the removed battery in accordance with local regulations.

3. Note the polarity of the battery and install it with the positive "+" side facing downwards as shown.

# Smart key system (LTF125-A)

4



## 1. Battery


4. Gently snap the smart key case closed.

ECA15785

### NOTICE

- Use a cloth when opening the smart key case with a screwdriver. Direct contact with hard objects may damage or scratch the smart key.
- Take precautions to prevent the waterproof seal from being damaged or contaminated by dirt.
- Do not touch the internal circuits and terminals. This may cause malfunctions.

- Do not apply excessive force to the smart key when replacing the battery.
- Make sure the battery is installed correctly. Confirm the direction of the positive “+” side of the battery.

 : This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

EWA20633

### WARNING

This product contains a coin/button cell battery.

To prevent an explosion or leakage of flammable liquid or gas:

- Do not replace the battery with an incorrect type. Replace only with the same or equivalent type.
- Please check and obey all local laws and regulations for the disposal of batteries or accumulations.

- Do not dispose of any battery with fire, incineration, or by mechanically crushing or cutting the battery.
- Do not store, or put a smart key any place where it may be exposed to extremely high temperatures or extremely low air pressure.
- If a battery is incorrectly discarded or heated to a high temperature (100 °C (212 °F) or higher), gas may be generated inside battery thereby causing electrolyte leakage, internal short circuit, heat generation, explosion and violent flaring.
- Do not expose smart keys to excessive heat such as direct sunlight, fire, etc.

Do not swallow any coin/button cell batteries:

- Do not ingest the battery, chemical burn hazard.

- If the coin/button cell battery is swallowed or placed inside any part of the body, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children. If the smart key does not close securely, stop using the smart key and keep it away from children.
- If you think a battery might have been swallowed or placed inside any part of the body, seek immediate medical attention.

EWA23170

### **WARNING**

- The specified battery is not rechargeable, do not recharge the battery.
- Remove and immediately recycle or dispose of the smart key battery according to local regulations if the smart key will not be used for an extended period of time.
- Always make sure the smart key case is completely closed. If the case does not close securely,

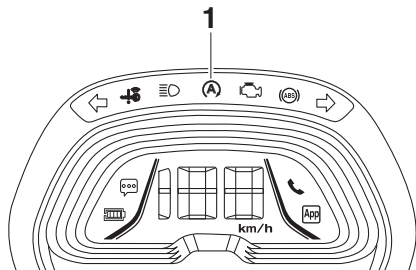
stop using the smart key, remove the battery, and keep them away from children.

- Do not force discharge, recharge, disassemble, heat the battery to 100 °C (212 °F) or higher, or incinerate it. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Even used batteries may cause severe injury or death. Immediately recycle or dispose of any used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate. If consumed, call a local poison control center for treatment information.

# Stop and Start System

## Stop and Start System

EAU76826



1. Stop and Start System indicator light “A”

The Stop and Start System stops the engine automatically when the vehicle is stopped in order to prevent noise, control exhaust emissions, and reduce fuel consumption.

When the rider turns the throttle grip slightly, the engine restarts automatically and the vehicle starts off.

ECA23961

### NOTICE

**When parking the vehicle or leaving the vehicle unattended, be sure to turn the main switch off. If the Stop and Start System is left turned on, the battery could become dis-**

**charged and it may not be possible to restart the engine due to insufficient battery voltage.**

### TIP

- Although the engine normally stops at the same time as the vehicle, there may be a delay when operating the vehicle under 10 km/h, such as in heavy traffic.
- If you think the battery voltage is low because the engine cannot be started using the starter switch or for some other reason, do not turn on the Stop and Start System.
- Have a Yamaha dealer check the battery at the intervals specified in the periodic maintenance chart.

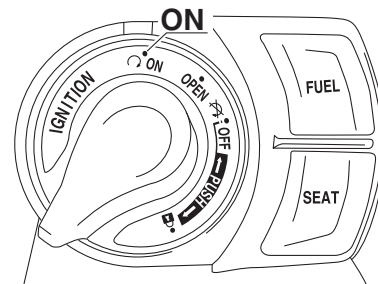
## Stop and Start System operation

EAU76671

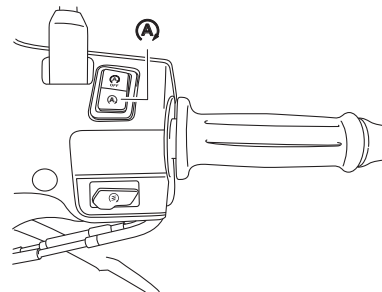
### Activating the Stop and Start System

EAU76687

1. Turn the main switch on.



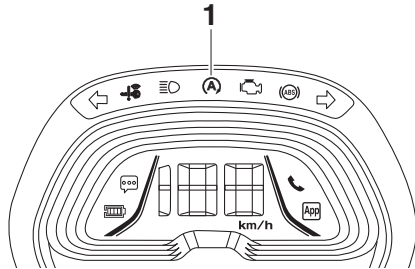
2. Set the Stop and Start System switch to “A”.



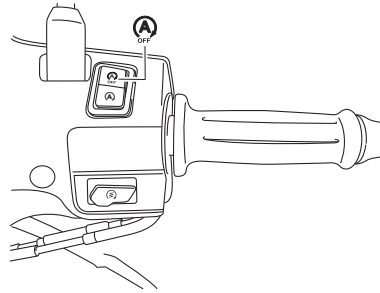
# Stop and Start System

3. The Stop and Start System activates and the indicator light comes on when the following conditions are met:

- The Stop and Start System switch is set to “(A)”.
- After the engine was warmed up, the engine was left idling for a certain period.
- The vehicle has traveled at a speed of 10 km/h or higher.



4. To turn off the Stop and Start System, set the Stop and Start System switch to “(A)”.



## TIP

- To preserve battery power, the Stop and Start System may not activate.
- If the Stop and Start System does not activate, have a Yamaha dealer check the battery.

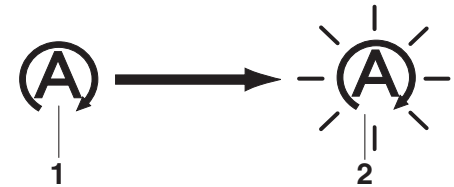
EAU76833

## Stop the engine

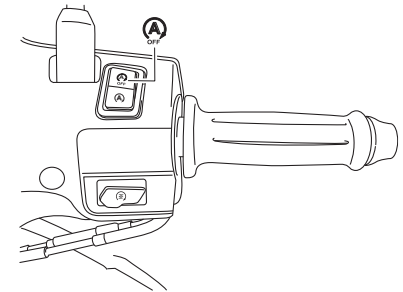
The engine will stop automatically when the following conditions are met:

- The Stop and Start System switch is set to “(A)”.
- The Stop and Start System indicator light “(A)” on the multi-function meter is on.
- The vehicle is stopped with the throttle grip fully returned.

At this time, the Stop and Start System indicator light “(A)” starts flashing to indicate that the engine is currently stopped by the Stop and Start System.



1. On
2. Flashing

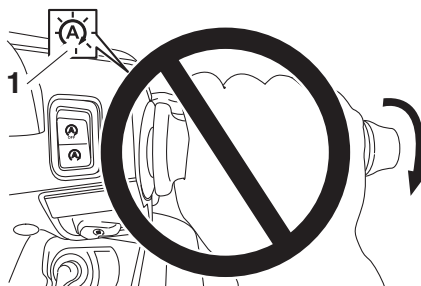


# Stop and Start System

## Restart the engine

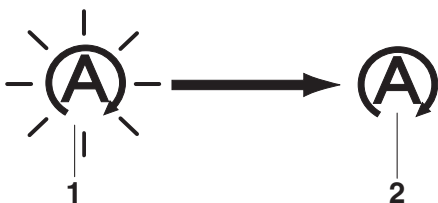
EAU76705

If the throttle grip is turned while the Stop and Start System indicator light “A” is flashing, the engine will automatically restart and the light will stop flashing.



Stop and Start System is left turned on, the engine could start and the vehicle could start moving if the throttle grip is turned accidentally.

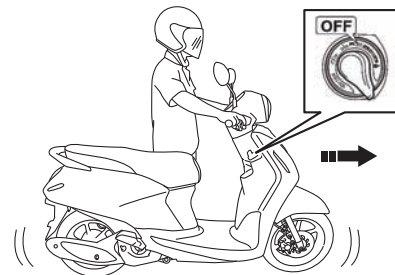
5



1. Flashing
2. Off

## TIP

- When the sidestand is lowered, the Stop and Start System is deactivated.
- If the Stop and Start System does not operate correctly, have a Yamaha dealer check the vehicle.



EWA18751

## **WARNING**

Do not turn the throttle grip too much or too quickly when the Stop and Start System is activated and the engine is stopped. Otherwise, the vehicle could start moving unexpectedly after the engine restarts.

EWA18731

## Precautions when using the Stop and Start System

EAU76711

In order to prevent accidents due to improper operation, carefully read and observe the following precautions.

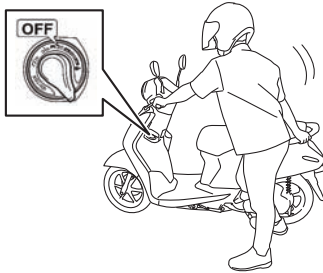
EWA18741

## **WARNING**

When walking while pushing the vehicle, be sure to turn the main switch off. If the vehicle is pushed while the

## **WARNING**

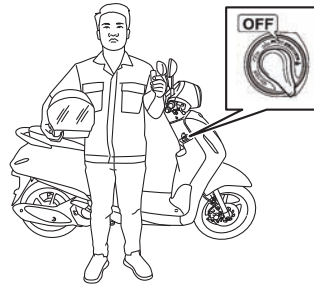
When placing the vehicle on the centerstand, be sure to turn the main switch off. If the vehicle is placed on the centerstand while the Stop and Start System is left turned on, the engine could start and the vehicle could start moving if the throttle grip is turned accidentally.



EWA18771

## **⚠ WARNING**

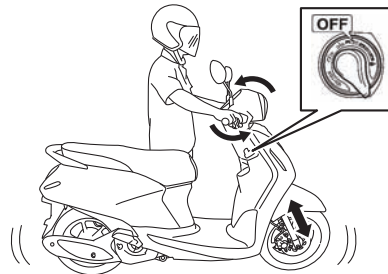
- When leaving the vehicle unattended, be sure to turn the main switch off.
- Do not leave the Stop and Start System turned on when parking the vehicle. Otherwise, the engine could start and the vehicle could start moving if the throttle grip is turned accidentally.



EWA18781

## **⚠ WARNING**

Before performing maintenance, be sure to turn the main switch off. If maintenance is performed while the Stop and Start System is turned on, the engine could start and the vehicle could start moving if the throttle grip is turned.



# Special features

6

## CCU-Communication Control Unit (if equipped)

EAUJ2480

The CCU allows your vehicle and smartphone to connect using Bluetooth wireless technology and the Yamaha Motorcycle Connect smartphone app.

With this connection, notifications from SNS (social network service) apps, incoming phone calls and missed calls are signaled to you, and the battery level of your smartphone is displayed.

The Yamaha Motorcycle Connect app also provides other information such as your last parking location, etc.

EWAN0070

### **WARNING**

- Always stop the vehicle before operating your smartphone.
- Never take your hands off the handlebars while riding.
- Always concentrate on riding by keeping your eyes and mind on the road.

### **NOTICE**

ECAN0150

The Bluetooth connection may not work in the following situations.

- In a location exposed to strong radio waves or other electro-magnetic noise.
- At facilities nearby that are emitting strong radio waves (TV or radio towers, power plants, broadcasting stations, airports, etc.).

### Pairing the CCU and your smartphone

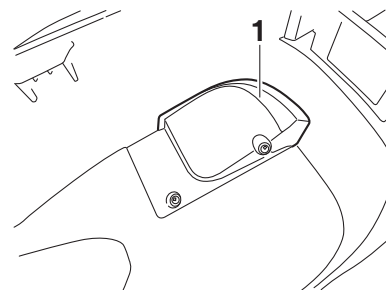
1. Scan the QR code below and download the Yamaha Motorcycle Connect app.



### **TIP**

Yamaha Motorcycle Connect may not work on all smartphone models and OS (operating system) versions.

2. Open the seat. (See page 7-19.)
3. Remove the battery cover.

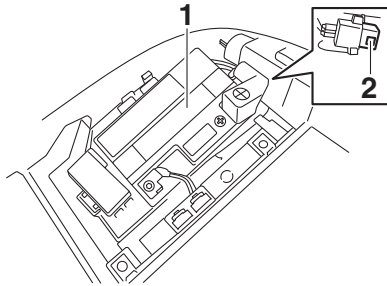


1. Battery cover

4. Pull out the CCU and scan its QR code with the Yamaha Motorcycle Connect app.

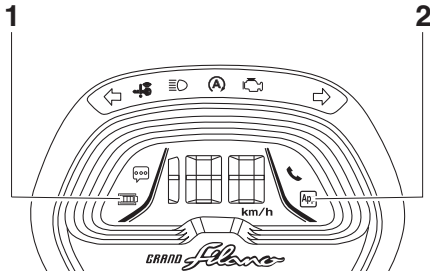
### **TIP**

Pairing can also be done using the vehicle identification number. (See page 13-1.) Refer to the login screen in the Yamaha Motorcycle Connect app.



1. CCU (Communication Control Unit)
2. CCU QR Code

5. When pairing is complete, the Yamaha Motorcycle Connect icon and smartphone battery level meter will come on.



1. Smartphone battery level meter
2. Yamaha Motorcycle Connect icon

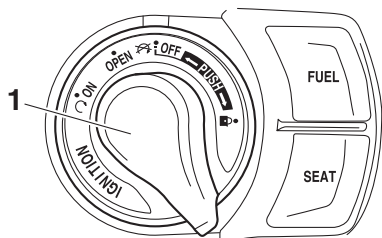
## TIP

- Once paired, the smartphone is registered in the CCU. The next time the vehicle is turned on and the Yamaha Motorcycle Connect app is active, the connection will be automatically executed.
- Only one smartphone can be connected to the CCU at one time.

# Instrument and control functions

## Main switch (LTF125-A)

EUA8783




1. Main switch knob

The main switch is used to turn the vehicle power on/off, lock/unlock the steering and open the seat/fuel tank lid. To use the main switch:

1. Push the main switch knob inward. If the smart key is detected within range, the system will activate the main switch for approximately 4 seconds, and the smart key indicator light will come on. (See page 7-6.)
2. While holding the main switch knob in, turn it to the desired position within the 4-second window, before the smart key indicator light goes off.

### WARNING

Never turn the main switch to “OFF”, “

### TIP

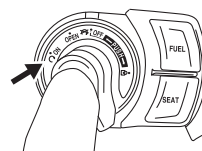
Do not repeatedly push or turn the main switch knob beyond normal use. Doing so will temporarily disable the smart key system to protect the main switch. When disabled, the smart key system indicator light will blink. If this occurs, wait until the smart key system indicator light stops blinking before operating the main switch again.

The main switch positions are described as follows:

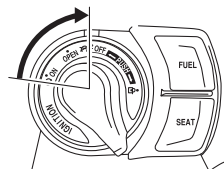
EWA18720

## ON

1



2



1. Push.
2. Turn.

All electrical circuits are supplied with power, and the engine can be started. When the main switch knob is turned to “ON”, all of the turn signal lights will flash twice and the vehicle power will turn on.

### TIP

- If the vehicle battery voltage is low, the turn signal lights will not flash.
- See “Emergency mode” on page 10-34 for information on turning the vehicle power on without the smart key.

EUA8661

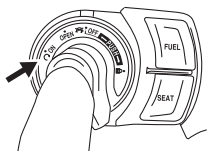
## OPEN

EAUJA8755

The fuel tank cap lid and the seat can be opened:

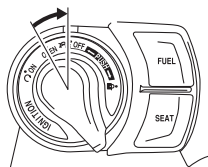
1. With the smart key on and within operating range, push the main switch knob.
2. While the smart key system indicator light is on, turn the main switch to "OPEN".

1

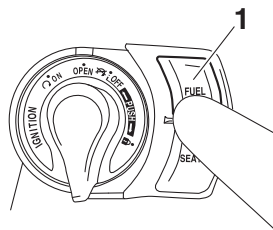


1. Push.
2. Turn.

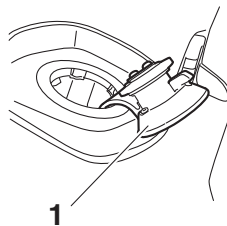
2



## To open the fuel tank cap lid



1. "FUEL" button



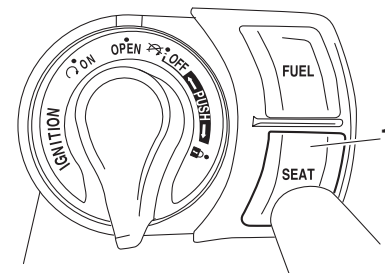
1. Fuel tank cap lid

Push the "FUEL" button to open the fuel tank cap lid.  
After refueling, push the fuel tank cap lid until it is closed.

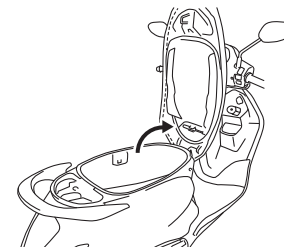
## TIP

- Make sure that the fuel tank cap lid is securely closed before starting off.
- See page 7-16 for fuel tank cap removal and installation procedures.

## To open the seat



1. "SEAT" button



# Instrument and control functions

Push the “SEAT” button, and then lift the rear of the seat.

To close the seat, push down on the rear to lock it in position.


## TIP

- Make sure that the seat is securely closed before starting off.
- The seat can also be opened with the mechanical key. (See page 7-21, 7-19)

## Open position reminder

To prevent you from accidentally leaving the vehicle unlocked by walking away with the main switch still in the “OPEN” position, the smart key system beeper will sound under the following conditions.

- When the main switch has been in the “OPEN” position for 3 minutes
- If the smart key is turned off while the main switch is in the “OPEN” position
- If you walk out of range of the smart key system with the main switch in the “OPEN” position

If the beeper sounds after 3 minutes, turn the main switch to “OFF” or “

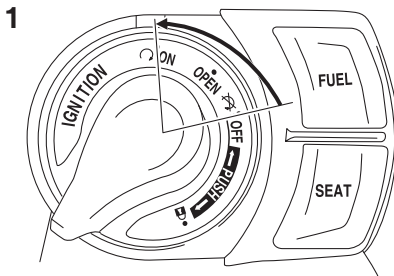
If the beeper sounds because the smart key was turned off or moved out of range, turn the smart key on and walk back into range.

## TIP

The beeper will turn off after 1 minute.

EAUA8670

## OFF



1. Turn.

All electrical systems are off.

When the main switch is turned to “OFF”, all the turn signal lights will flash once and the vehicle power turns off.

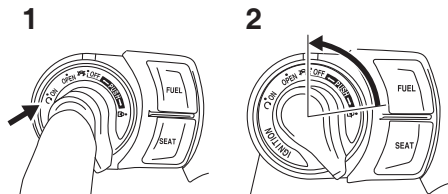
## TIP

When the main switch is turned to “OFF” but the smart key cannot be confirmed (the smart key is either outside operation range or has been turned off), the beeper will sound for 3 seconds and the smart key system indicator light will flash for 30 seconds.

- For 30 seconds, the main switch can be freely operated.
- After 30 seconds, the vehicle power will turn off automatically.
- To turn the vehicle power off immediately, push the main switch knob inward four times within 2 seconds.

## “**i**” (Lock)

EAUJ8771



1. Push.
2. Push and turn.

The steering is locked and all electrical systems are off.

### To lock the steering

1. Turn the handlebar all the way to the left.
2. With the smart key turned on and within operating range, push the main switch knob.
3. While the smart key system indicator light is on, push and turn the main switch knob to “**i**”.

## TIP \_\_\_\_\_

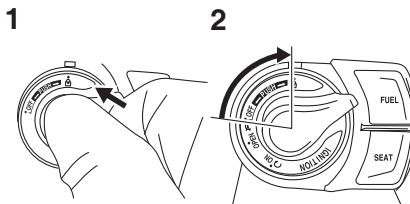
If the steering will not lock, try turning the handlebar back to the right slightly.

EWA14742

## **!** WARNING \_\_\_\_\_

**Do not operate the steering lock while the vehicle is moving.**

### To unlock the steering

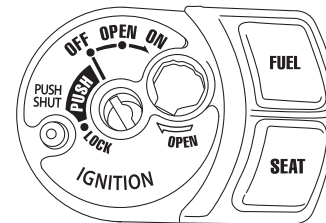


1. Push.
2. Turn.

1. With the smart key turned on and within operating range, push the main switch knob.
2. While the smart key system indicator light is on, push and turn the main switch knob to the desired position.

## Main switch/steering lock

EAUU1031



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.

## ON

All electrical circuits are supplied with power, and the engine can be started. The key cannot be removed.

EAUV0191

# Instrument and control functions

## TIP

- The meter lighting comes on automatically when the key is turned to “ON”.
- The fuel pump can be heard when the key is turned to “ON”.

EAU45752

## OFF

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

EWA10073

## **WARNING**

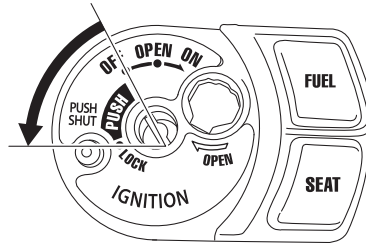
**Never turn the key to “OFF” while the vehicle is moving, otherwise the electrical systems will be switched off, which may result in loss of control or an accident.**

EAU43143

## LOCK

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

## To lock the steering

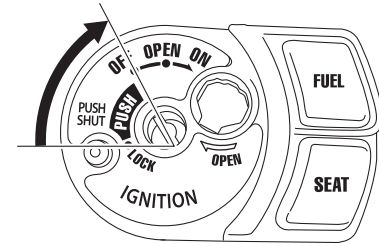


1. Turn the handlebars all the way to the left.
2. Push the key in from the “OFF” position, and then turn it to “LOCK” while still pushing it.
3. Remove the key.

## TIP

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

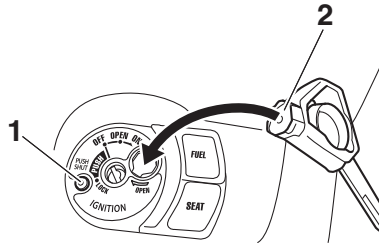
## To unlock the steering



Insert the key and turn it to “OFF”.

## Keyhole shutter

EAUN0354



1. "SHUT" lever
2. Keyhole shutter key

### To open the keyhole shutter

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

### To close the keyhole shutter

Press the "PUSH SHUT" button to close the keyhole shutter.

## Indicator lights and warning lights

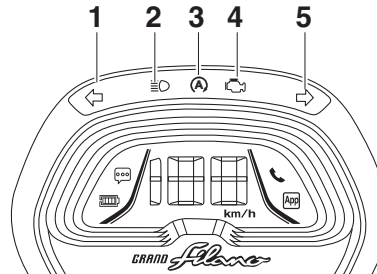
EAU7712D

ECA29090

### NOTICE

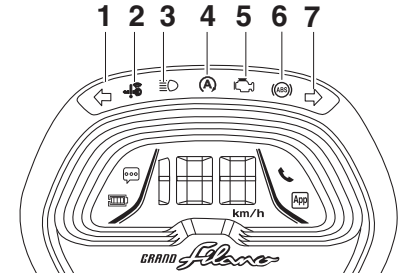
If an indicator or warning is signaling a problem or abnormal condition, then stop all vehicle operation immediately. Have a Yamaha dealer inspect the vehicle.

### LTF125-I



1. Left turn signal indicator light "↶"
2. High beam indicator light "≡"
3. Stop and Start System indicator light "Ⓐ"
4. Engine trouble warning light "🔧"
5. Right turn signal indicator light "↷"

### LTF125-A



1. Left turn signal indicator light "↶"
2. Smart key system indicator light "🔑"
3. High beam indicator light "≡"
4. Stop and Start System indicator light "Ⓐ"
5. Engine trouble warning light "🔧"
6. Anti-lock Brake System (ABS) warning light "ABS"
7. Right turn signal indicator light "↷"

### Turn signal indicator lights "↶" and "↷"

EAU11033

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

### High beam indicator light "≡"

EAU11081

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

# Instrument and control functions

## Engine trouble warning light “” EAU77562

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.

### TIP

When the vehicle is turned on, this light should come on for a few seconds and then go off. Otherwise, have a Yamaha dealer check the vehicle.

## ABS warning light “” (for ABS models) EAU85192

This warning light comes on when the vehicle is first turned on, and goes off after starting riding. If the warning light comes on while riding, the anti-lock brake system may not work correctly.

EWA16043

### **WARNING**

**If the ABS warning light does not turn off after reaching 10 km/h (6 mi/h), or if the warning light comes on while riding:**

- **Use extra caution to avoid possible wheel lock during emergency braking.**
- **Have a Yamaha dealer check the vehicle as soon as possible.**

### TIP

- If the start switch is pushed while the engine is running, the ABS warning light will come on, but this is not a malfunction.
- If the engine is revved while the vehicle is on its centerstand, the ABS warning light may come on, but this is not a malfunction.

## Smart key system indicator light “” (LTF125-A) EAU78602


This indicator light communicates the status of the smart key system. When the smart key system is operating normally, this indicator light will be off. If there is an error in the smart key system, the indicator light will flash. The indicator light will also flash when communication between the vehicle and

smart key takes place and when certain smart key system operations are carried out.

## Stop and Start System indicator light “” EAU76382

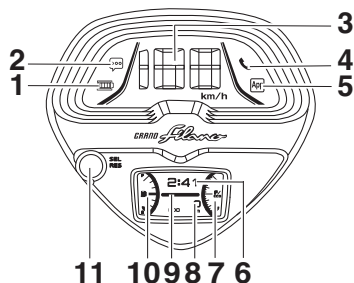
This indicator light comes on when the Stop and Start System activates. The indicator light will flash when the engine is automatically stopped by the Stop and Start System.

### TIP

Even if the Stop and Start Switch is set to “”, this indicator light may not come on. (See page 5-1.)

## Multi-function meter unit

EUAUN3473



1. Smartphone battery level meter
2. Incoming notification icon “ ”
3. Speedometer
4. Incoming call icon “ ”
5. Yamaha Motorcycle Connect icon
6. Clock
7. Instantaneous fuel consumption meter
8. Multi-function display
9. Running display
10. Fuel meter
11. “RESET/SELECT” button

### **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.**

### **TIP**

Be sure to turn the main switch on before using the “SEL/RES” button.

### **Incoming call icon “ ” (If CCU is equipped)**

EUAU1350

This icon flashes when there is an incoming call to the connected smartphone. If you do not answer the call, the icon stays on until you turn the vehicle off.

### **TIP**

This function works only when the smartphone is connected to the vehicle.

### **Incoming notification icon “ ” (If CCU is equipped)**

EUAU1360

This icon flashes for 10 seconds when the connected smartphone receives an SNS, E-mail or other notification. After that, the icon stays on until you turn the vehicle off.

### **TIP**

- This function works only when the smartphone is connected to the vehicle.
- Notifications must be setup for each application on the connected smartphone in advance.

### **Yamaha Motorcycle Connect icon (If CCU is equipped)**

EUAU1370

This icon comes on when CCU and smartphone are connected via the Yamaha Motorcycle Connect app.

### **TIP**

If CCU is equipped:

Even if the smartphone is not connected, when the vehicle is turned on, this icon should come on for a few seconds. Otherwise have a Yamaha dealer check the CCU and the electrical circuit.

# Instrument and control functions

## Smartphone battery level meter (If CCU is equipped)

EAU1390

This meter indicates the current battery level of the connected smartphone. The display segments of the meter disappear from full to blank as the battery level decreases. When approximately 10% or less of the battery remains, the last segment starts flashing.

### TIP

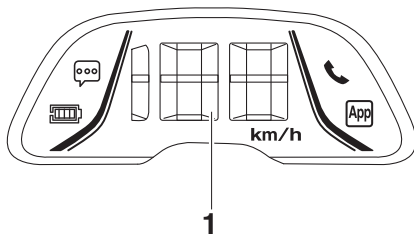
If CCU is equipped:

Even if the smartphone is not connected, when the vehicle is turned on, this icon should come on for a few seconds. Otherwise have a Yamaha dealer check the CCU and the electrical circuit.

7

## Speedometer

EAU86831



1. Speedometer

The speedometer shows the vehicle's traveling speed.

## Fuel meter

EAU3851



1. Fuel meter

The fuel meter indicates the amount of fuel in the fuel tank. The display segments of the fuel meter disappear from "F" (full) towards "E" (empty) as the fuel level decreases. When the last segment starts flashing, refuel as soon as possible.

### TIP

If a problem is detected in the electrical circuit, the fuel level segments will flash repeatedly. If this occurs, have a Yamaha dealer check the vehicle.

ECAE0121

### NOTICE

**Do not let the vehicle run completely out of fuel. This may cause damage to the catalytic converter.**

# Instrument and control functions

## Clock

EAU87300



### 1. Clock

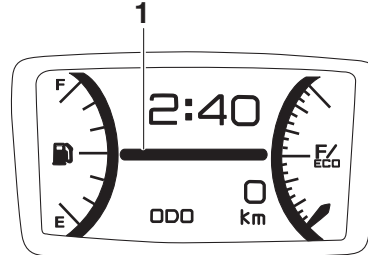
The clock uses a 12-hour time system.

### To set the clock

1. Push the “RESET/SELECT” button until the hour digits start flashing.
2. Use the “RESET/SELECT” button to set the hours.
3. Push the “RESET/SELECT” button until the minute digits start flashing.
4. Use the “RESET/SELECT” button to set the minutes.
5. Push the “RESET/SELECT” button until the minute digits stop flashing. The setting is confirmed.

## Running display

EAU87410

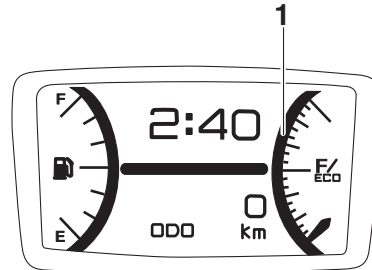


### 1. Running display

The running display is activated when the vehicle is traveling at a speed of 10 km/h (6 mi/h) or higher.

## Instantaneous fuel economy meter

EAU87420



### 1. Instantaneous fuel consumption meter

This meter shows the instantaneous fuel economy (fuel consumption) on a scale with 18 graduation lines.

The area of the instantaneous fuel economy meter up to graduation line 12 is displayed in blue and the area between graduation lines 12 and 18 is displayed in green.

EAU87510

## Multi-function display

The multi-function display is equipped with the following:

- an odometer (ODO)
- a tripmeter (TRIP)
- an instantaneous fuel consumption display (F/ECO)
- an average fuel consumption display (AVE F/ECO)
- a battery voltage display (BATT)
- a SMG assist icon (Display ON/OFF)

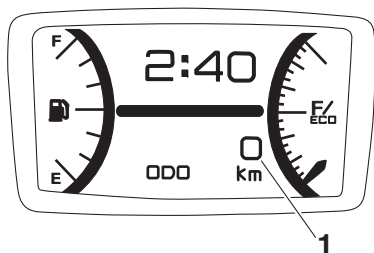
Push the “RESET/SELECT” button to change the display in the following order:

ODO → TRIP → F/ECO → AVE F/ECO  
→ BATT → Display ON/OFF → ODO

# Instrument and control functions

## Odometer

EAU86891



### 1. Odometer

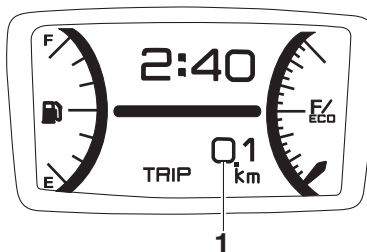
The odometer shows the total distance traveled by the vehicle.

#### **TIP**

The odometer will lock at "999999" and cannot be reset.

## Tripmeter

EAU88010



### 1. Tripmeter

The tripmeter shows the distance traveled since it was last reset.

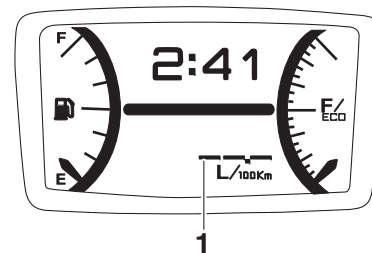
To reset the tripmeter, change the display to the tripmeter, and then push the "RESET/SELECT" button until it is reset.

#### **TIP**

The tripmeter will reset and continue counting after 999.9 is reached.

## Instantaneous fuel consumption display

EAU87750



### 1. Instantaneous fuel consumption display

This display shows the fuel consumption under the current riding conditions. It can be set to either "km/L" or "L/100 km". To switch the fuel consumption measurement units, push the "RESET/SELECT" button until the measurement units change.

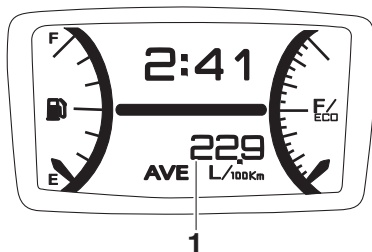
- "km/L": the distance that can be traveled on 1.0 L of fuel.
- "L/100 km": the amount of fuel necessary to travel 100 km.

#### **TIP**

When traveling under 10 km/h (6 mi/h), "\_ \_ ." is displayed.

## Average fuel consumption display

EAU87840



### 1. Average fuel consumption display

This display shows the average fuel consumption since it was last reset. The average fuel consumption display can be set to either “AVE\_ \_ km/L” or “AVE\_ \_ L/100 km”. The average fuel consumption display mode is set to the same as the instantaneous fuel consumption display mode.

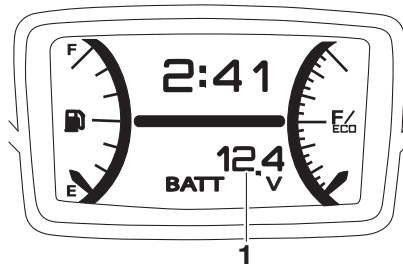
- “AVE\_ \_ km/L”: the average distance that can be traveled on 1.0 L of fuel.
- “AVE\_ \_ L/100 km”: the average amount of fuel necessary to travel 100 km.

## TIP

- To reset the display, push the “RESET/SELECT” button until it resets.
- After resetting, “\_ \_.” is shown until the vehicle has traveled some distance.

## Battery voltage display

EAU86960



### 1. Battery voltage display

This display shows the current charge state of the battery.

- Over 12.8 V = Full charge.
- Under 12.7 V = Charging is required.

## TIP

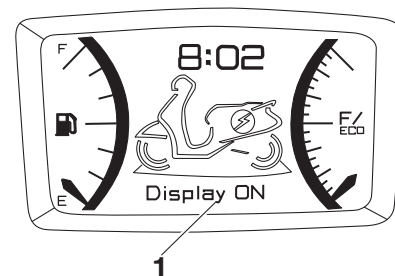
If the battery voltage is less than 9.0 V, “\_ \_.” is displayed.

EAUN3890

## SMG assist icon

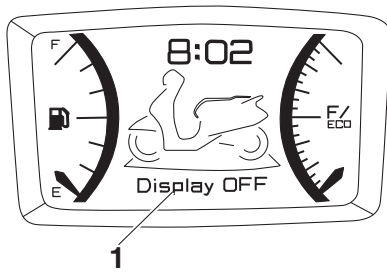
This vehicle is equipped with a Smart Motor Generator (SMG) that not only starts the engine, but also assists with initial acceleration.

When the smart motor generator is assisting with acceleration, the display will show the SMG assist icon.



### 1. Display ON

# Instrument and control functions



1. Display OFF

The SMG assist icon can be turned off. To do so, push the “SEL/RES” button for one second. To turn the display back on, push the “SEL/RES” button for one second again.

7

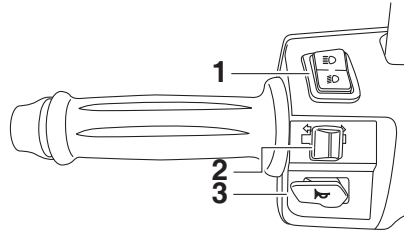
## TIP

When battery voltage is low, the smart motor generator may not assist with acceleration.

## Handlebar switches

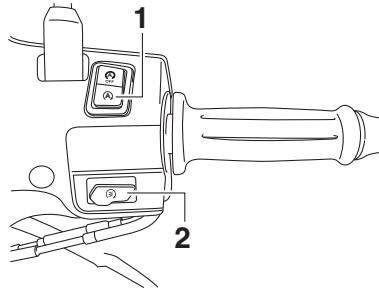
EAU1234U

### Left



1. Dimmer switch “HD/LD”
2. Turn signal switch “L/R”
3. Horn switch “🔊”

### Right



1. Stop and Start System switch “A/OFF”
2. Start switch “⚡”

## Dimmer switch “HD/LD”

EAU12402

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

## Turn signal switch “L/R”

EAU12461

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

## Horn switch “🔊”

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. See page 9-2 for starting instructions prior to starting the engine.

## Stop and Start System switch

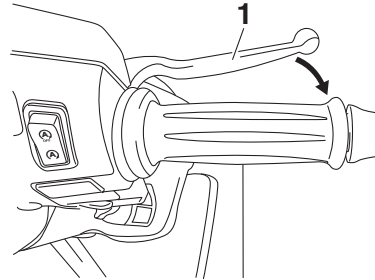
EAU76391

“(A)/<sub>OFF</sub>(A)”

To turn on the Stop and Start System, set the switch to “(A)”. To turn off the Stop and Start System, set this switch to “<sub>OFF</sub>(A)”.

## Brake lever

EAU12892

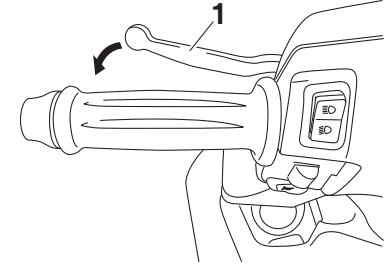


1. Front brake lever

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

## Rear brake lever

EAU12952



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.

# Instrument and control functions

## UBS (For Standard models) (LTF125-I)

EAUJ2591

This model is equipped with a UBS (unified brake system). When pulling the rear brake lever, the rear brake and a portion of the front brake are applied. This model is equipped with a unified brake system.

For full braking performance, apply both brake levers simultaneously.

### TIP

- Because the unified brake system is mechanical, additional free play can be felt in the front brake lever when the rear brake lever is being pulled, but this does not indicate a malfunction.
- The unified brake system does not operate when the front brake lever is being pulled directly.

## ABS (for ABS models) (LTF125-A)

EAUJ7822

This model's ABS (anti-lock brake system) acts on the front brake system. Operate the brakes as you normally would with a conventional brake system. If the ABS is activated, a pulsating sensation may be felt at the front brake lever. In this situation, continue to apply the brakes and let the ABS work; do not release and re-apply the brakes (i.e., pump the brakes) as this will reduce braking effectiveness.

EWA16051



**Always keep a sufficient distance from the vehicle ahead to match the riding speed even with ABS.**

- **The ABS performs best with long braking distances.**
- **On certain surfaces, such as rough or gravel roads, the braking distance may be longer with the ABS than without.**

The ABS is monitored by an ECU, which will revert the system to conventional braking if a malfunction occurs.

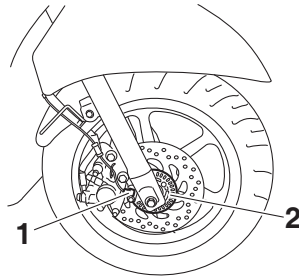
### TIP

- The ABS performs a self-diagnostic test each time the vehicle first starts off after the main switch is turned on and the vehicle has traveled at a speed of 10 km/h (6 mi/h) or higher. During this test, a clicking noise may be audible, and a vibration may be felt at the brake lever, but these do not indicate a malfunction.
- The ABS has a test mode which allows the owner to experience the pulsating sensation at the front brake lever. However, special tools are required so please consult your Yamaha dealer.

ECA20100

### NOTICE

**Be careful not to damage the wheel sensor or wheel sensor rotor; otherwise, improper performance of the ABS will result.**



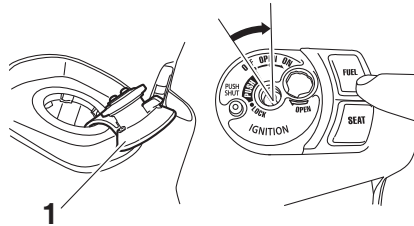
1. Front wheel sensor
2. Front wheel sensor rotor

## Fuel tank cap

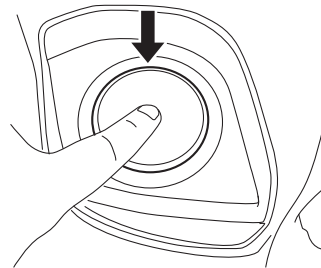
EAU62370

### To remove the fuel tank cap

1. Insert the key into main switch and then turn it to “OPEN” position.



1. Fuel tank cap
2. Push the “FUEL” button to open the fuel tank cap.



### To install the fuel tank cap

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

EWA10132

### **! WARNING**

**Make sure that the fuel tank cap is properly installed before riding. Leaking fuel is a fire hazard.**

# Instrument and control functions

## Fuel

Make sure there is sufficient gasoline in the tank.

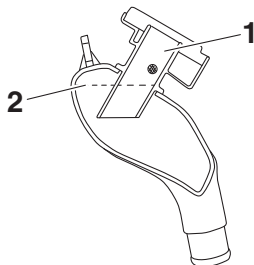
EAU13213

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.



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 immedi-**

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

EAUU2420

### **Recommended fuel:**

Regular unleaded gasoline (E10 to E20 only)

### **Fuel tank capacity:**

4.4 L (1.2 US gal, 1.0 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.**

### **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 20% (E20). Gasohol containing methanol is not

recommended by Yamaha because it can cause damage to the fuel system or vehicle performance problems.

## Catalytic converter

EAU13435

The exhaust system contains catalytic converter(s) to reduce harmful exhaust emissions.

EWA10863

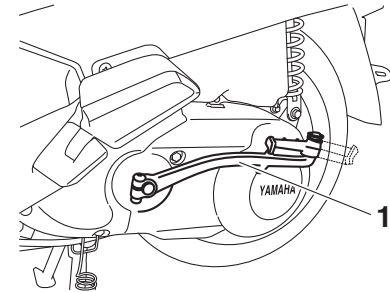
### **⚠ WARNING**

**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.**

## Kickstarter

EAU37652



1. Kickstarter

If the engine fails to start by pushing the start switch, try to start it by using the kickstarter. To start the engine, fold out the kickstarter lever, move it down lightly with your foot until the gears engage, and then push it down smoothly but forcefully.

# Instrument and control functions

## Seat

EAU80511

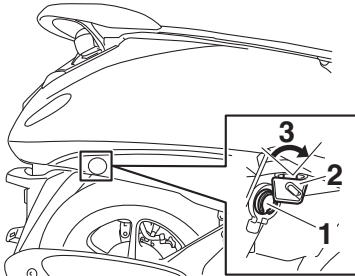
ECA24020

### For (LTF125-A)

To open the seat, use the “SEAT” button on the main switch. (See page 7-2.)

### To open the seat with the mechanical key

1. Open the keyhole cover.



1. Keyhole cover
  2. Seat lock
  3. Unlock.
- 
2. Insert the mechanical key into the seat lock, and then turn it clockwise.
  3. Lift the rear of the seat.

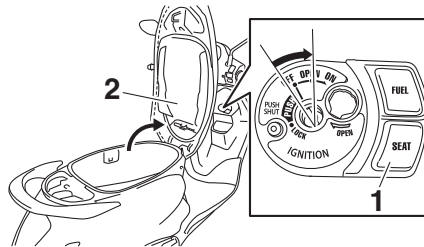
### **NOTICE**

**Make sure that the keyhole cover is installed when the mechanical key is not being used.**

### For (LTF125-I)

### To open the seat

1. Insert the key into main switch and then turn it to “OPEN” position.



1. Seat lock
  2. Seat
- 
2. Push the “SEAT” button to open the seat.

### **To close the seat**

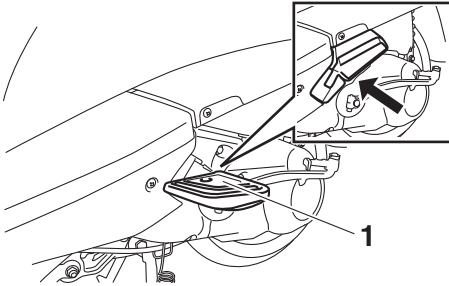
Push the rear of the seat down to lock it in place.

### **TIP**

Make sure that the seat is properly secured before riding.

## Passenger footrest

EAU1770



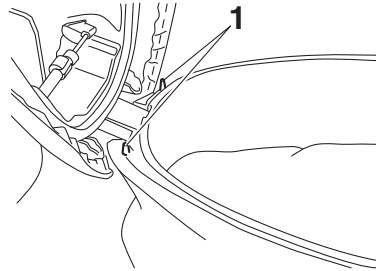
1. Passenger footrest

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

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

## Helmet holders

EAU0850



1. Helmet holder
2. D-ring

The helmet holders are located under the seat.

### To secure a helmet to a helmet holder

1. Open the seat. (See page 7-19.)
2. Attach the D-ring of the helmet strap to a helmet holder, and then securely close the seat.

**WARNING! Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.** [EWA10162]

### To release a helmet from a helmet holder

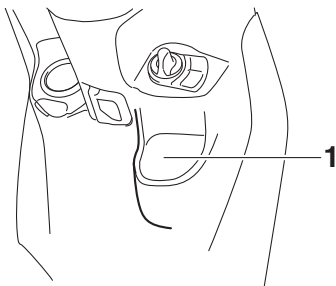
Open the seat, remove the helmet from the helmet holder, and then close the seat.

# Instrument and control functions

## Storage compartments

### Front storage compartment

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



1. Front storage compartment

#### **WARNING**

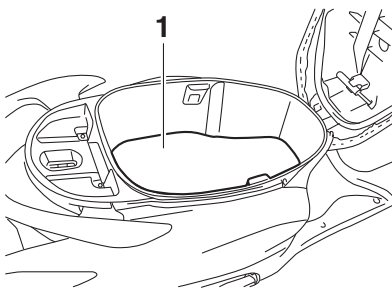
- Do not exceed the load limit of 0.5 kg (1.1 lb) for the front storage compartment.
- Do not place anything in the front storage compartment that will interfere with your operating the vehicle.

EAU57081

EWA17250

### Rear storage compartment

The rear storage compartment is located under the seat. Use this compartment for large items. (See page 7-19.)



1. Rear storage compartment

EWAT1052

#### **WARNING**

- Do not exceed the load limit of 8.0 kg (18 lb) for the rear storage compartment.
- Do not exceed the maximum load of 160 kg (353 lb) for the vehicle.

ECA21150

#### **NOTICE**

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

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

#### **TIP**

Do not leave your vehicle unattended with the seat open.

## Luggage hook

EAU61380

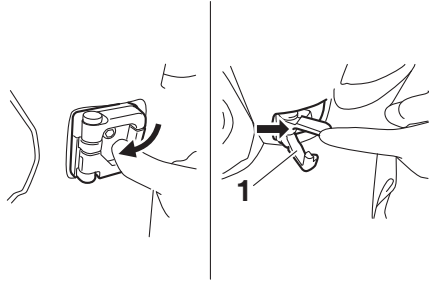
To use the luggage hook, pull it out as shown.

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

EWAT1032

### **WARNING**

- Do not exceed the load limit of 1 kg (2.2 lb) for the luggage hook.
- Do not exceed the maximum load of 160 kg (353 lb) for the vehicle.

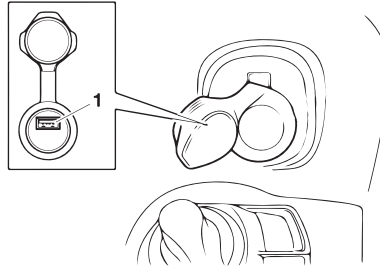


1. Luggage hook

## USB Type-A jack

EAU3640

This model is equipped with a 5V 2A USB Type-A jack. The USB Type-A jack can be used when the main switch is on.



1. USB jack

### **TIP**

Under some conditions, the device battery level may drop even while the USB is plugged in.

ECA28690

### **NOTICE**

- To protect the USB Type-A jack from water and collisions, install the cap when the jack is not being used.

- To prevent damage, avoid applying excessive force when opening and closing the USB jack cap.
- Ensure the USB jack cap is properly installed and do not use the USB Type-A jack when it rains or when washing the vehicle. If the USB Type-A jack gets wet, please dry it with the vehicle turned off before using it.
- Do not put tension or apply force to cables attached to the USB Type-A jack as it may cause damage.

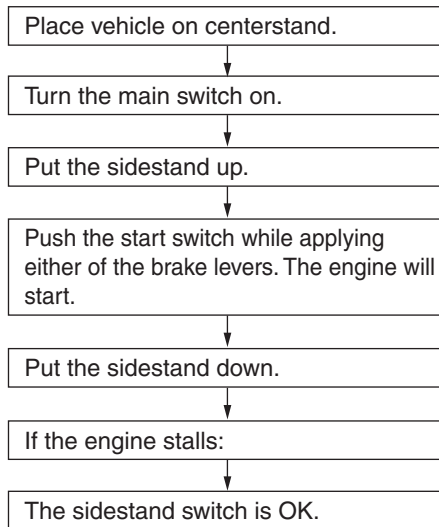
# Instrument and control functions

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EAUT1098

## Ignition circuit cut-off system

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



## WARNING

- The vehicle must be placed on the centerstand during this inspection.
- If a malfunction is found, have the vehicle inspected before riding.

# For your safety – pre-operation checks

EAU1559B

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
<b>Fuel</b>	<ul style="list-style-type: none"><li>• Check fuel level in fuel tank.</li><li>• Refuel if necessary.</li><li>• Check fuel line for leakage.</li><li>• Check fuel tank overflow hose for obstructions, cracks or damage, and check hose connection.</li></ul>	7-17
<b>Engine oil</b>	<ul style="list-style-type: none"><li>• Check oil level in engine.</li><li>• If necessary, add recommended oil to specified level.</li><li>• Check vehicle for oil leakage.</li></ul>	10-10
<b>Final transmission oil</b>	<ul style="list-style-type: none"><li>• Check vehicle for oil leakage.</li></ul>	10-12
<b>Front brake</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• If soft or spongy, have Yamaha dealer bleed hydraulic system.</li><li>• Check brake pads for wear.</li><li>• Replace if necessary.</li><li>• Check fluid level in reservoir.</li><li>• If necessary, add specified brake fluid to specified level.</li><li>• Check hydraulic system for leakage.</li></ul>	10-20, 10-21
<b>Rear brake</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• Lubricate cable if necessary.</li><li>• Check lever free play.</li><li>• Adjust if necessary.</li></ul>	10-19, 10-20

# For your safety – pre-operation checks

ITEM	CHECKS	PAGE
<b>Throttle grip</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Check throttle grip free play.</li> <li>• If necessary, have Yamaha dealer adjust throttle grip free play and lubricate cable and grip housing.</li> </ul>	10-16, 10-23
<b>Control cables</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate if necessary.</li> </ul>	10-22
<b>Wheels and tires</b>	<ul style="list-style-type: none"> <li>• Check for damage.</li> <li>• Check tire condition and tread depth.</li> <li>• Check air pressure.</li> <li>• Correct if necessary.</li> </ul>	10-17, 10-18
<b>Brake levers</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate lever pivoting points if necessary.</li> </ul>	10-23
<b>Centerstand, sidestand</b>	<ul style="list-style-type: none"> <li>• Make sure that operation is smooth.</li> <li>• Lubricate pivots if necessary.</li> </ul>	10-24
<b>Chassis fasteners</b>	<ul style="list-style-type: none"> <li>• Make sure that all nuts, bolts and screws are properly tightened.</li> <li>• Tighten if necessary.</li> </ul>	—
<b>Instruments, lights, signals and switches</b>	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Correct if necessary.</li> </ul>	—
<b>Sidestand switch</b>	<ul style="list-style-type: none"> <li>• Check operation of ignition circuit cut-off system.</li> <li>• If system is not working correctly, have Yamaha dealer check vehicle.</li> </ul>	—

# Operation and important riding points

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EAU15952

Read the Owner's Manual carefully to become familiar with all controls. If there is a control or function you do not understand, ask your Yamaha dealer.

EWA10272

## **WARNING**

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

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EAU16842

## Engine break-in

There is never a more important period in the life of your engine than the period between 0 and 1600 km (1000 mi). For this reason, you should read the following material carefully.

Since the engine is brand new, do not put an excessive load on it for the first 1600 km (1000 mi). The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

EAUM2012

## 0–1000 km (0–600 mi)

Avoid prolonged operation above 1/3 throttle. **NOTICE: After 1000 km (600 mi) of operation, be sure to replace the engine oil and final transmission oil.** [ECA11662]

## 1000–1600 km (600–1000 mi)

Avoid prolonged operation above 1/2 throttle.

## 1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

ECA10271

## **NOTICE**

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

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# Operation and important riding points

## Starting the engine

EAU86741

The ignition circuit cut-off system will enable starting only when the side-stand is up.

### To start the engine

1. Turn the main switch on.
2. Confirm the indicator and warning light(s) come on for a few seconds, and then go off. (See page 7-6.)

### TIP

- Do not start the engine if the engine trouble warning light remains on.
- The ABS warning light should come on and stay on until the vehicle reaches a speed of 10 km/h (6 mi/h).

ECA24110

### NOTICE

**If a warning or indicator light does not work as described above, have a Yamaha dealer check the vehicle.**

3. Close the throttle completely.
4. While applying the front or rear brake, push the start switch.

5. Release the start switch when the engine starts, or after 5 seconds. Wait 10 seconds before pressing the switch again to allow battery voltage to restore.

ECA11043

### NOTICE

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

EAUN0073

ECAN0072

### NOTICE

**Do not ride through deep water, otherwise the engine may be damaged. Avoid puddles because they may be deeper than expected.**

# Operation and important riding points

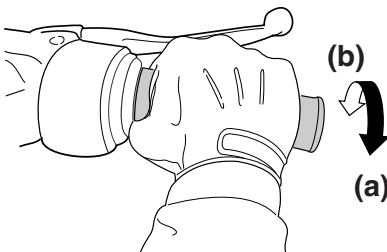
## Starting off

EAU45093

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.

## Acceleration and deceleration

EAU16783



ZAJUM0199

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).

ECA12682

### NOTICE

- Use the brake when stopping on an uphill slope. Holding the vehicle at a stop with throttle operation will cause the clutch to heat up, causing damage to the clutch.

- Do not rev the throttle unnecessarily, otherwise the malfunction indicator light (MIL)/engine trouble warning light may come on.

## 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.

## Tips for reducing fuel consumption

EAU16821

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

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

## Parking

EAU77863

When parking, turn the vehicle power off. After turning off the main switch, be sure to remove the key and take it with you. For smart key models, be sure to turn off the smart key and take with you.

EWA18840

### **WARNING**

- **Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them and be burned.**
- **Do not park on a slope or on soft ground, otherwise the vehicle may overturn, increasing the risk of a fuel leak and fire.**
- **Do not park near grass or other flammable materials which might catch fire.**
- **If the Stop and Start System is left turned on, the battery could become discharged and it may not be possible to restart the engine due to insufficient battery voltage.**

# Operation and important riding points

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## TIP

Even when the vehicle is parked in a location partitioned by a fence or the glass window of a shop, if the smart key is within operating range, other people will be able to start the engine and operate the vehicle. Please turn the smart key off when leaving the vehicle. (See page 7-3.)

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# 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 2-3 for more information about carbon monoxide.**

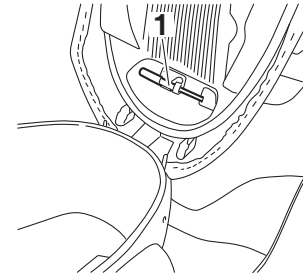
EWA15461

## **! WARNING**

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

EAU85230

## Tool kit



1. Tool kit

The tool kit is in the location shown. The information included in this manual and the tools provided in the tool kit are intended to assist you in the performance of preventive maintenance and minor repairs. However, a torque wrench and other tools are necessary to perform certain maintenance work correctly.

## TIP

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

# Periodic maintenance and adjustment

EAUU0621

## TIP

- The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.
- From 20000 km, repeat the maintenance intervals starting from 4000 km.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

EAUU2431

## Periodic maintenance chart for the emission control system

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (whichever comes first)					ANNUAL CHECK
			1000 km or 1 month	4000 km or 4 months	8000 km or 8 months	12000 km or 12 months	16000 km or 16 months	
1	* Fuel line	<ul style="list-style-type: none"> <li>• Check fuel hoses for cracks or damage.</li> </ul>		√	√	√	√	√
2	* Fuel filter	<ul style="list-style-type: none"> <li>• Check condition.</li> <li>• Replace if necessary.</li> </ul>	Every 12000 km (7500 mi)					
3	* Spark plug	<ul style="list-style-type: none"> <li>• Check condition.</li> <li>• Clean and regap.</li> </ul>		√	√	√	√	
		<ul style="list-style-type: none"> <li>• Replace.</li> </ul>	Every 8000 km (5000 mi)					
4	* Valves	<ul style="list-style-type: none"> <li>• Check valve clearance.</li> <li>• Adjust if necessary.</li> </ul>			√		√	
5	* Fuel injection	<ul style="list-style-type: none"> <li>• Check engine idle speed.</li> </ul>		√	√	√	√	√
6	* Exhaust system	<ul style="list-style-type: none"> <li>• Check for leakage.</li> <li>• Tighten if necessary.</li> <li>• Replace gasket(s) if necessary.</li> </ul>		√	√	√	√	√

# Periodic maintenance and adjustment

EAUU2441

## General maintenance and lubrication chart

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (whichever comes first)					ANNUAL CHECK
			1000 km or 1 month	4000 km or 4 months	8000 km or 8 months	12000 km or 12 months	16000 km or 16 months	
1	* Diagnostic system check	<ul style="list-style-type: none"> <li>Perform dynamic inspection using Yamaha diagnostic tool.</li> <li>Check the error codes.</li> </ul>	√	√	√	√	√	√
2	Air filter element	<ul style="list-style-type: none"> <li>Replace.</li> </ul>	Every 16000 km (10000 mi)					
3	Air filter check hose	<ul style="list-style-type: none"> <li>Clean.</li> </ul>	√	√	√	√	√	
4	* V-belt case air filter element	<ul style="list-style-type: none"> <li>Clean.</li> <li>Replace if necessary.</li> </ul>		√	√	√	√	
5	* Battery	<ul style="list-style-type: none"> <li>Check voltage.</li> <li>Charge if necessary.</li> </ul>	√	√	√	√	√	√
6	* Front brake	<ul style="list-style-type: none"> <li>Check operation, fluid level and vehicle for fluid leakage.</li> </ul>	√	√	√	√	√	√
		<ul style="list-style-type: none"> <li>Replace brake pads.</li> </ul>	Whenever worn to the limit					
7	* Rear brake	<ul style="list-style-type: none"> <li>Check operation and adjust brake lever free play.</li> </ul>	√	√	√	√	√	√
		<ul style="list-style-type: none"> <li>Replace brake shoes.</li> </ul>	Whenever worn to the limit					
8	* Brake hoses	<ul style="list-style-type: none"> <li>Check for cracks or damage.</li> <li>Check for correct routing and clamping.</li> </ul>		√	√	√	√	√
		<ul style="list-style-type: none"> <li>Replace.</li> </ul>	Every 4 years					
9	* Brake fluid	<ul style="list-style-type: none"> <li>Change.</li> </ul>	Every 2 years					
10	* Wheels	<ul style="list-style-type: none"> <li>Check runout and for damage.</li> </ul>		√	√	√	√	

# Periodic maintenance and adjustment

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (whichever comes first)					ANNUAL CHECK
			1000 km or 1 month	4000 km or 4 months	8000 km or 8 months	12000 km or 12 months	16000 km or 16 months	
11	* Tires	<ul style="list-style-type: none"> <li>• Check tread depth and for damage.</li> <li>• Replace if necessary.</li> <li>• Check air pressure.</li> <li>• Correct if necessary.</li> </ul>		√	√	√	√	√
12	* Wheel bearings	<ul style="list-style-type: none"> <li>• Check bearings for looseness or damage.</li> </ul>		√	√	√	√	
13	* Steering bearings	<ul style="list-style-type: none"> <li>• Check bearing play and steering for roughness.</li> </ul>	√	√	√	√	√	
		<ul style="list-style-type: none"> <li>• Lubricate with lithium-soap-based grease.</li> </ul>	Every 12000 km (7500 mi)					
14	* Chassis fasteners	<ul style="list-style-type: none"> <li>• Make sure that all nuts, bolts and screws are properly tightened.</li> </ul>		√	√	√	√	√
15	Front brake lever pivot shaft	<ul style="list-style-type: none"> <li>• Lubricate with silicone grease.</li> </ul>		√	√	√	√	√
16	Rear brake lever pivot shaft	<ul style="list-style-type: none"> <li>• Lubricate with silicone grease.</li> </ul>		√	√	√	√	√
17	* Unified brake system	<ul style="list-style-type: none"> <li>• Check cable free play and adjust if necessary.</li> </ul>	√	√	√	√	√	√
		<ul style="list-style-type: none"> <li>• Lubricate link pivot of brake pedal with lithium-soap-based grease.</li> </ul>	√	√	√	√	√	√
18	Sidestand, center-stand	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Lubricate with lithium-soap-based grease.</li> </ul>		√	√	√	√	√
19	* Sidestand switch	<ul style="list-style-type: none"> <li>• Check operation.</li> </ul>	√	√	√	√	√	√

# Periodic maintenance and adjustment

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (whichever comes first)					ANNUAL CHECK
			1000 km or 1 month	4000 km or 4 months	8000 km or 8 months	12000 km or 12 months	16000 km or 16 months	
20	* Front fork	<ul style="list-style-type: none"> <li>• Check operation and for oil leakage.</li> </ul>		√	√	√	√	
21	* Shock absorber assembly	<ul style="list-style-type: none"> <li>• Check operation and shock absorber for oil leakage.</li> </ul>		√	√	√	√	
22	Engine oil	<ul style="list-style-type: none"> <li>• Change.</li> <li>• Check oil level and vehicle for oil leakage.</li> </ul>	√	√	√	√	√	
23	* Engine oil strainer	<ul style="list-style-type: none"> <li>• Clean.</li> </ul>	√					√
24	Final transmission oil	<ul style="list-style-type: none"> <li>• Check vehicle for oil leakage.</li> </ul>	√	√	√	√	√	
		<ul style="list-style-type: none"> <li>• Change.</li> </ul>	√	Every 12000 km (7500 mi)				
25	* V-belt	<ul style="list-style-type: none"> <li>• Check for damage and wear.</li> </ul>			√	√	√	√
		<ul style="list-style-type: none"> <li>• Replace.</li> </ul>	Every 25000 km (15500 mi)					
26	* V-belt secondary sheave	<ul style="list-style-type: none"> <li>• Lubricate.</li> </ul>	Every 12000 km (7500 mi)					
27	* Front and rear brake switches	<ul style="list-style-type: none"> <li>• Check operation.</li> </ul>	√	√	√	√	√	√
28	Moving parts and cables	<ul style="list-style-type: none"> <li>• Lubricate.</li> </ul>		√	√	√	√	√
29	* Throttle grip	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Check throttle grip free play, and adjust if necessary.</li> <li>• Lubricate cable and grip housing.</li> </ul>		√	√	√	√	√
30	* Lights, signals and switches	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Adjust headlight beam.</li> </ul>	√	√	√	√	√	√

# Periodic maintenance and adjustment

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EAUU1622

## TIP

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- 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.
- V-belt
  - The V-belt should be checked at the initial 8000 km (5000 mi) and every 4000 km (2500 mi) thereafter. Replace the V-belt if any damage or wear is found. The V-belt needs to be replaced every 25000 km (16000 mi) even if there is no wear or damage.
- Hydraulic brake service
  - Regularly check and, if necessary, correct the brake fluid level. After disassembling the brake master cylinders and calipers, always change the brake fluid.
  - 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.
- Fuel system service
  - 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.
  - Replace the fuel filler cover every two years or if cracked or damaged.
  - Check the fuel filter if clogged or damaged every 12000 km (7500 mi).
- Battery service
  - Check the condition and service every 3 months.
  - Recharge the battery immediately if the voltage is less than 12.4 V.
  - If the battery tends to discharge, replace it immediately.

## **Periodic maintenance and adjustment**

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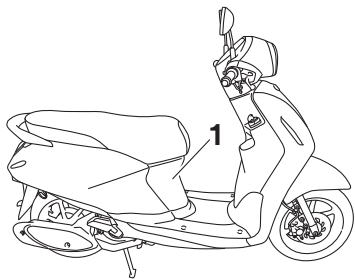
- If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
-

# Periodic maintenance and adjustment

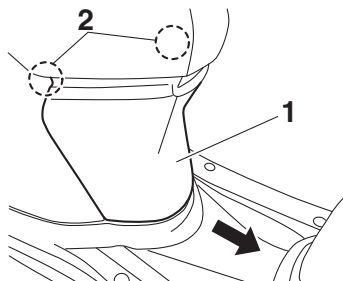
## Removing and installing the panel

EAU18752

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



1. Panel



1. Panel A
2. Screw

### To install the panel

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

EAU19253

## 10 Panel A

### To remove the panel

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

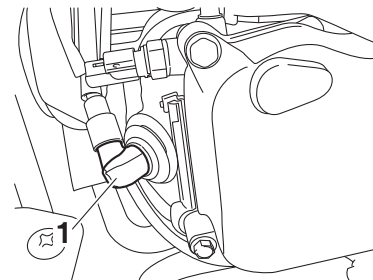
## Checking the spark plug

EAUT2077

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

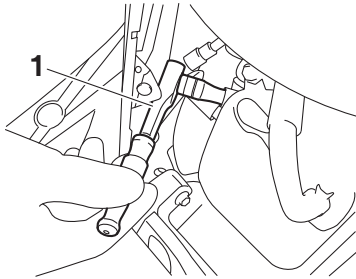
1. Remove panel A. (See page 10-8.)
2. Remove the spark plug cap.



1. Spark plug cap

3. Remove the spark plug as shown, with a spark plug wrench available at a Yamaha dealer.

# Periodic maintenance and adjustment



1. Spark plug wrench

## To check the spark plug

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

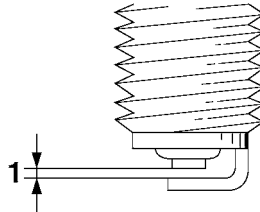
## TIP

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

2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and replace it if necessary.

**Specified spark plug:**  
NGK/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, 9.6 lb·ft)

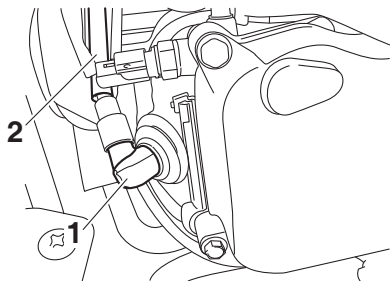
## TIP

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.

# Periodic maintenance and adjustment

EAU62847



1. Spark plug cap
2. Spark plug lead

4. Install the panel A.

## 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 oil filler cap, wipe the dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level.

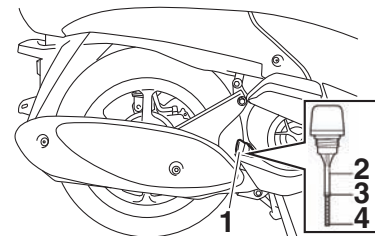
EWAU0031



**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.**

## TIP

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



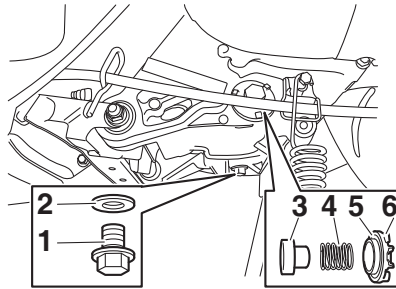
1. Engine oil filler cap
2. Engine oil dipstick
3. Maximum level mark
4. Tip of the engine oil dipstick

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

# Periodic maintenance and adjustment

## 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 drain bolt B to drain the oil from the crankcase. **NOTICE:** When removing the engine oil drain bolt, the O-ring, compression spring, and oil strainer will fall out. Take care not to lose these parts. [ECA11002]



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

**TIP** \_\_\_\_\_  
When only changing the engine oil, remove drain bolt A. When changing the engine oil and cleaning the engine oil strainer, remove drain bolt B also.

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, engine oil drain bolt with new O-ring, and then tighten the drain bolt to the specified torque.

**TIP** \_\_\_\_\_  
Make sure that the O-ring is properly seated.

### Tightening torque:

Engine oil drain bolt A:

20 N·m (2.0 kgf·m, 15 lb·ft)

Engine oil drain bolt B:

32 N·m (3.2 kgf·m, 24 lb·ft)

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

### Recommended engine oil:

See page 12-1.

### Oil quantity:

API service SG type or higher, JASO standard MA or MB

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

# Periodic maintenance and adjustment

## TIP \_\_\_\_\_

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

ECA24060

## NOTICE \_\_\_\_\_

**Make sure that no foreign material enters the crankcase.**

7. 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.
8. Turn the engine off, and then check the oil level and correct it if necessary.

## Why Yamalube

YAMALUBE oil is a Genuine YAMAHA Part born of the engineers' passion and belief that engine oil is an important liquid engine component. We form teams of specialists in the fields of mechanical engineering, chemistry, electronics and track testing, and have them develop the engine together with the oil it will use. Yamalube oils take full advantage of the base oil's qualities and blend in the ideal balance of additives to make sure the final oil clears our performance standards. Thus, Yamalube mineral, semisynthetic and synthetic oils have their own distinct characters and value. Yamaha's experience gained over many years of research and development into oil since the 1960's helps make Yamalube the best choice for your Yamaha engine.

EAU85450

EAU67822

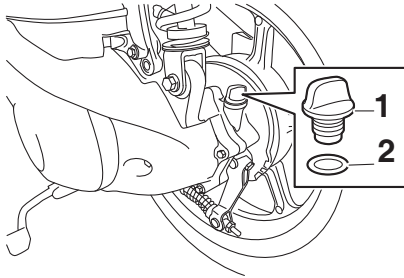
## Final transmission oil

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

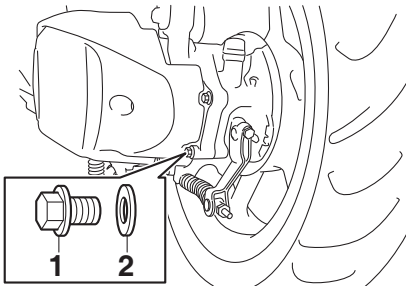


# Periodic maintenance and adjustment



1. Final transmission oil filler cap
2. O-ring

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



1. Final transmission oil drain bolt
2. Gasket

6. Install the final transmission oil drain bolt and its new gasket, and then tighten the bolt to the specified torque.

## TIP

- Before installing the final transmission oil drain bolt and gasket, apply oil to them.
- Wipe off any excess oil afterwards.

## Tightening torque:

Final transmission oil drain bolt:  
20 N·m (2.0 kgf·m, 15 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 12-1.

## 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.

# Periodic maintenance and adjustment

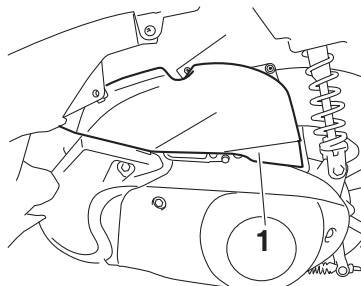
EAU62430

## Air filter and V-belt case air filter elements

The air filter element should be replaced every 16000 km (10000 mi) 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.

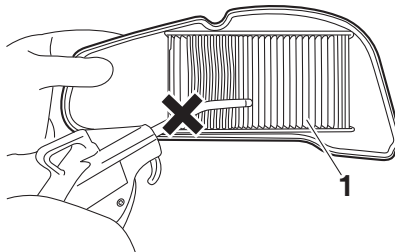
### Checking and replacing the air filter element

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



1. Air filter case cover

4. Remove the air filter element by pulling it out.
5. Check the air filter element for excessive dirt or damage and replace it if necessary.



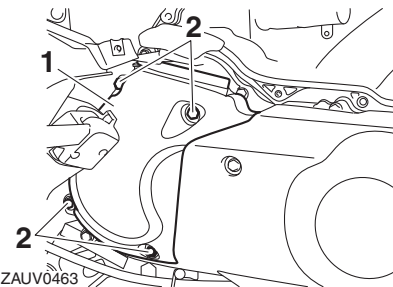
1. Air filter element

6. Place the air filter element in its original position.

7. Install the air filter case cover by installing the screws.
8. Install the left rear panel.

### 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.

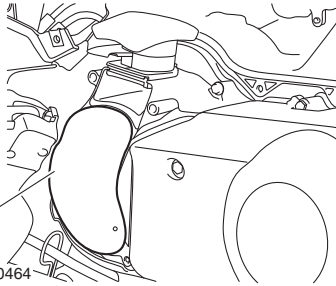


ZALUV0463

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

3. Remove the element by pulling it out.

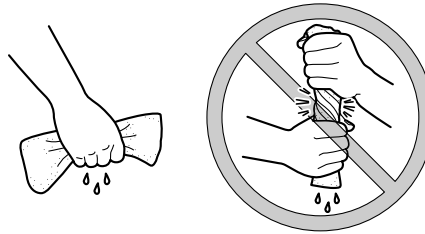
# Periodic maintenance and adjustment



ZAUUV0464

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:

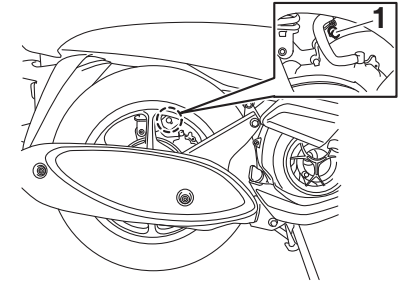
Yamaha foam air filter oil or other quality foam air filter oil

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 in-**

stalled, otherwise the piston(s) and/or cylinder(s) may become excessively worn. [ECA10532]

## Cleaning the air filter check hose and caps

1. Check each cap at the bottom left side of the air filter case and the hose at the bottom of the V-belt case for accumulated dirt or water.

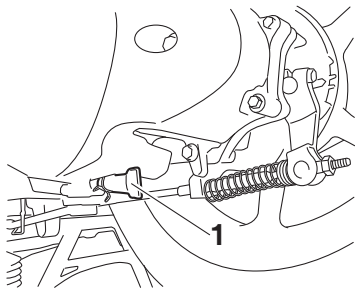


1. Air filter check hose

# Periodic maintenance and adjustment

EAUJ1211

EAU21403



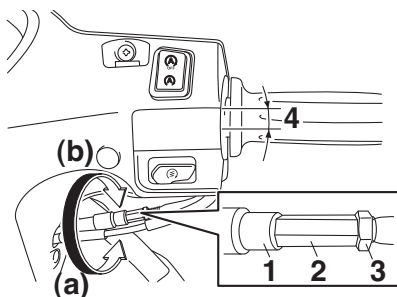
1. V-belt case check hose

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.

## Valve clearance

The valves are an important engine component, and since valve clearance changes with use, they must be checked and adjusted at the intervals specified in the periodic maintenance chart. Unadjusted valves can result in improper air-fuel mixture, engine noise, and eventually engine damage. To prevent this from occurring, have your Yamaha dealer check and adjust the valve clearance at regular intervals.

## TIP \_\_\_\_\_

This service must be performed when the engine is cold.

# Periodic maintenance and adjustment

## Tires

EAU82721

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

## Tire air pressure

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

EWA10504

### **⚠ WARNING**

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

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

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

### **Cold tire air pressure:**

#### **1 person:**

Front:  
200 kPa (2.00 kgf/cm<sup>2</sup>, 29 psi)

Rear:  
225 kPa (2.25 kgf/cm<sup>2</sup>, 33 psi)

#### **2 persons:**

Front:  
200 kPa (2.00 kgf/cm<sup>2</sup>, 29 psi)

Rear:  
225 kPa (2.25 kgf/cm<sup>2</sup>, 33 psi)

### **Maximum load:**

Vehicle:  
160 kg (353 lb)

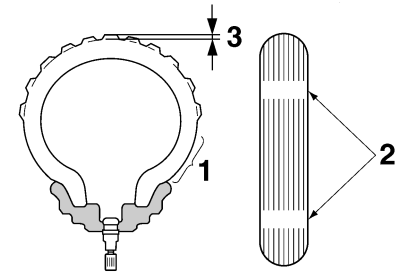
The vehicle's maximum load is the combined weight of the rider, passenger, cargo, and any accessories.

EWA10512

### **⚠ WARNING**

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

## Tire inspection



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

The tires must be checked before each ride. If a tire tread shows crosswise lines (minimum tread depth), if the tire has a nail or glass fragments in it, or if the sidewall is cracked, contact a Yamaha dealer immediately and have the tire replaced.

### **Minimum tire tread depth (front and rear):**

1.0 mm (0.04 in)

# Periodic maintenance and adjustment

EWA10583

## WARNING

- It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately.
- The replacement of all wheel and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience 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.

## Tire information

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

Tires age, even if they have not been used or have only been used occasionally. Cracking of the tread and sidewall rubber, sometimes accompanied by carcass deformation, is an evidence of

ageing. Old and aged tires shall be checked by tire specialists to ascertain their suitability for further use.

EWA10462

## WARNING

**The front and rear tires should be of the same make and design, 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:

110/70-12 47L

Manufacturer/model:

MAXXIS/M6219Y

### Rear tire:

Size:

110/70-12 47L

Manufacturer/model:

MAXXIS/M6220

EAU21963

## Cast wheels

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

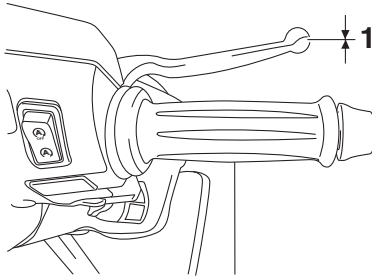
- The wheel rims should be checked for cracks, bends, warp-age or other damage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever 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 front brake lever free play

EAU49351

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



### 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

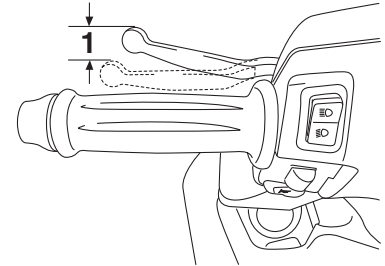
### **WARNING**

**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**

## Adjusting the rear brake lever free play

EAU22172

Measure the rear brake lever free play as shown.



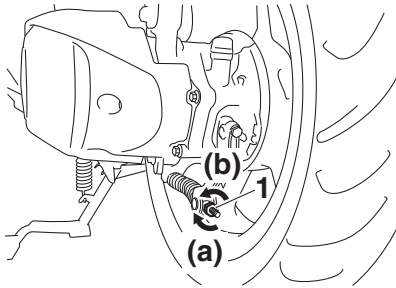
### 1. Rear brake lever free play

**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).

# Periodic maintenance and adjustment



1. Rear brake lever free play adjusting nut

EWA10651

## **! WARNING**

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

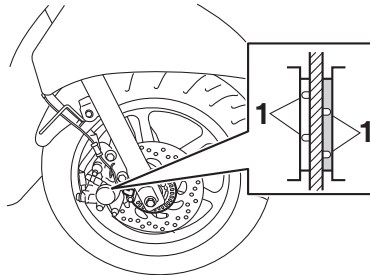
EAU22382

## 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.

EAU22434

## Front brake pads



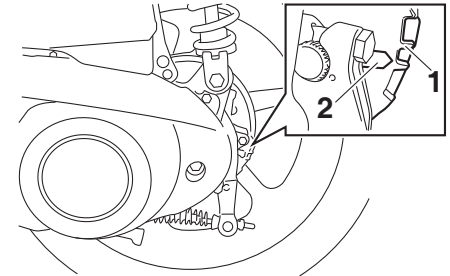
1. Brake pad wear indicator groove

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

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

EAU22541

## Rear brake shoes



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

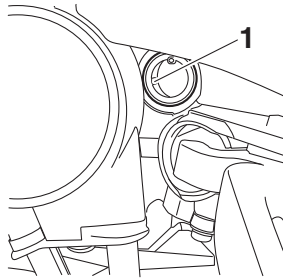
The rear brake is provided with a wear indicator, which allows you to check the brake shoe wear without having to disassemble the brake. To check the brake shoe wear, check the position of the wear indicator while applying the brake. If a brake shoe has worn to the point that the wear indicator reaches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

EAWN2471

## Checking the brake fluid level

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

### Front brake



1. Minimum level mark

#### Specified brake fluid:

Non-ABS model:

DOT 3 or DOT 4

ABS model:

YAMAHA GENUINE BRAKE FLUID DOT 4

EWAN0060

## **!** WARNING

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

- **Insufficient brake fluid may allow air to enter the brake system, reducing braking performance.**
- **Clean the filler cap before removing. Use only brake fluid from a sealed container.**
- **Use only the specified brake fluid; otherwise, the rubber seals may deteriorate, causing leakage.**
- **Refill with the same type of brake fluid. Mixing brake fluids may result in a harmful chemical reaction.**
- **Be careful that water or dust does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock, and dirt may clog the ABS hydraulic unit valves.**

ECA17641

## NOTICE

**Brake fluid may damage painted surfaces or plastic parts. Always clean up spilled fluid immediately.**

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

# Periodic maintenance and adjustment

## Changing the brake fluid

EAU22725

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.

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

## Checking the V-belt

EAU0311

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

## Checking and lubricating the cables

EAU23098

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

## Checking and lubricating the throttle grip and cable

EAU49921

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.

## Lubricating the front and rear brake levers

EAU43643

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

### Recommended lubricants:

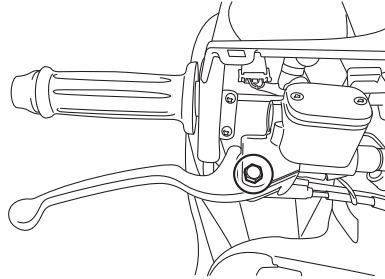
Front brake lever:

Silicone grease

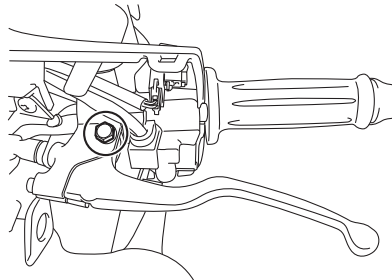
Rear brake lever:

Lithium-soap-based grease

### Front brake lever



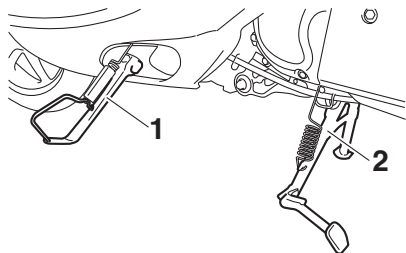
### Rear brake lever



# Periodic maintenance and adjustment

## Checking and lubricating the centerstand and sidestand

EAU23215



1. Sidestand
2. Centerstand

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

EWA10742

### **WARNING**

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

**Recommended lubricant:**  
Lithium-soap-based grease

## Checking the front fork

EAU23273

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

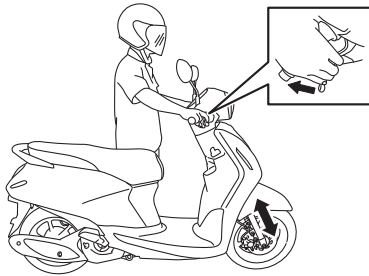
### To check the condition

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

### To check the operation

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

# Periodic maintenance and adjustment



ECA10591

## NOTICE

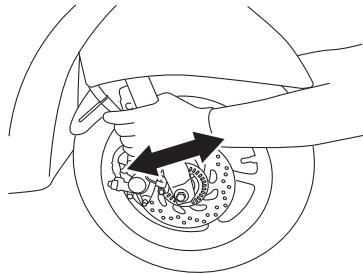
**If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.**

## Checking the steering

EAU45512

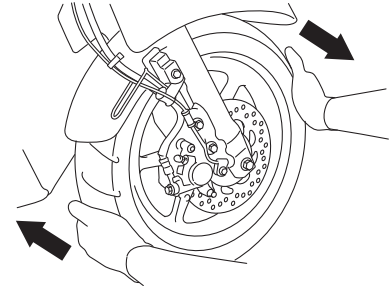
Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

1. Place the vehicle on the centerstand. **WARNING! To avoid 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

EAU23292

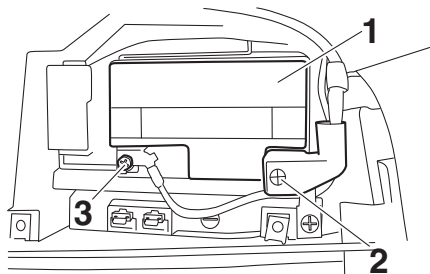


The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

# Periodic maintenance and adjustment

## Battery

EAU50292



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

The battery is located under the seat. (See page 7-19.)

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

### **To charge the battery**

Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the

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]
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 con-**

# Periodic maintenance and adjustment

nect 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.

## NOTICE

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

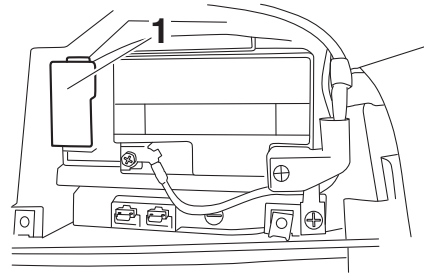
ECA16531

## Replacing the fuses

EAU6679A

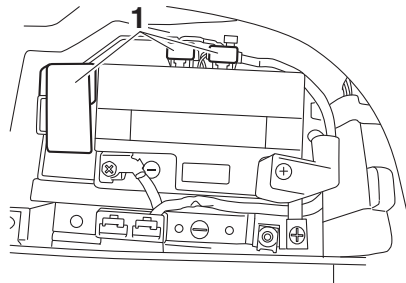
The fuse boxes, which contain the fuses for the individual circuits, are located under the seat. (See page 7-19.)

### (LTF125-I)



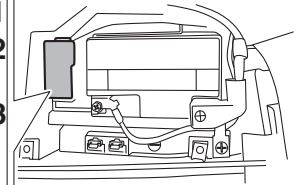
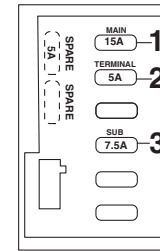
1. Fuse box

### (LTF125-A)



1. Fuse box

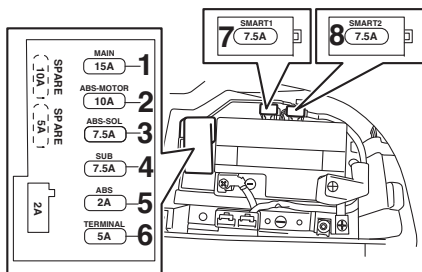
### (LTF125-I)



1. Main fuse
2. Terminal fuse
3. Sub fuse

# Periodic maintenance and adjustment

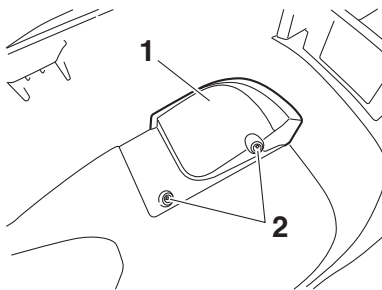
(LTF125-A)



1. Main fuse
2. ABS motor fuse
3. ABS solenoid fuse
4. Sub fuse
5. ABS fuse
6. Terminal fuse
7. Smart key system fuse 1
8. Smart key system fuse 2

If a fuse is blown, replace it as follows.

1. Turn off the electrical circuit in question, and then turn off the main switch.
2. Open the seat. (See page 7-19.)
3. Remove the battery cover by removing the screws.



1. Battery cover
2. Screw

4. Remove the blown fuse, and then install a new fuse of the specified amperage. **WARNING! Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.** [EWA15132]

## Specified fuses:

- Main fuse:  
15.0 A
- Sub fuse:  
7.5 A
- Smart key system fuse:  
7.5 A (LTF125-A)
- Auxiliary DC connector fuse:  
5.0 A
- ABS motor fuse:  
10.0 A (LTF125-A)
- ABS solenoid fuse:  
7.5 A (LTF125-A)
- ABS control unit fuse:  
2.0 A (LTF125-A)

5. Turn the main switch on, and then turn on the electrical circuit in question to check if the device operates.

## TIP

If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

6. Install the battery cover by installing the screws.
7. Close the seat.

## Vehicle lights

This model is equipped with LED lights for headlights, auxiliary lights and brake/tail light. If a light does not come on, check the fuse and then have a Yamaha dealer check the vehicle.

EAU2261

### NOTICE

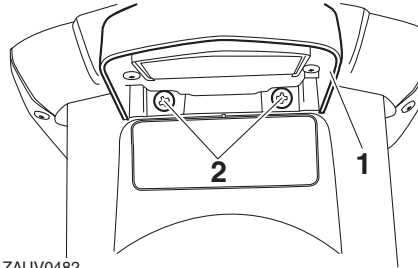
**Do not affix any type of tinted film or stickers to the headlight lens.**

ECA16581

## Replacing the license plate light bulb

EAU0271

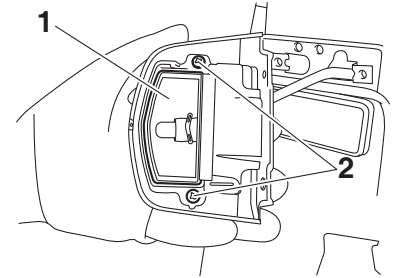
1. Remove the license plate light unit by removing the screws.



ZAU0482

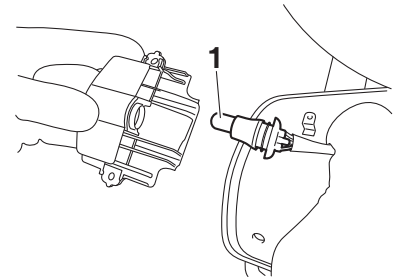
1. License plate light unit
2. Screw

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



1. License plate light lens
2. Screw

3. Remove the burnt-out bulb by pulling it out from the socket.



1. License plate light bulb

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

# Periodic maintenance and adjustment

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

## Troubleshooting

EAU60701

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

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

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

EWA15142



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

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

EAU76553

## Smart key system troubleshooting (LTF125-A)

Please check the following items when the smart key system does not work.

- Is the smart key turned on? (See page 4-3.)
- Is the smart key battery discharged? (See page 4-4.)
- Is the smart key battery installed correctly? (See page 4-4.)
- Is the smart key being used in a location with strong radio waves or other electromagnetic noise? (See page 4-1.)
- Are you using the smart key that is registered to the vehicle?
- Is the vehicle battery discharged? When the vehicle battery is discharged, the smart key system will not operate. Please have the vehicle battery charged or replaced. (See page 10-26.)

# Periodic maintenance and adjustment

If the smart key system does not work after checking the above items, have a Yamaha dealer check the smart key system.

## TIP


See Emergency mode on page 10-34 for information on starting the engine without the smart key.

EAU76844

## Stop and Start System troubleshooting

If a problem occurs, check the following before taking the vehicle to a Yamaha dealer.

### The Stop and Start System indicator light does not come on.

1. Is the main switch turned on?
2. Is the Stop and Start System switch set to “

Even if the preceding conditions are met, the Stop and Start System may not activate in order to preserve battery power. In this case, continue to drive the vehicle.

In addition, the Stop and Start System indicator light does not come on if the malfunction indicator light (MIL)/engine trouble warning light is on.

If the Stop and Start System indicator light still does not come on after you checked the preceding conditions, have a Yamaha dealer check the vehicle as soon as possible.


### The Stop and Start System indicator light comes on, but the engine does not stop automatically.

1. Was the vehicle stopped completely?  
The engine may not stop automatically until the vehicle is stopped for a certain period of time. Try bringing the vehicle to a complete stop.
2. Is the throttle grip turned?  
The engine does not stop automatically if the throttle grip is not in the fully closed position.

Turn the throttle grip to the fully closed position.

If the engine still does not stop automatically after you checked the preceding conditions, have a Yamaha dealer check the vehicle as soon as possible.

### After the engine was stopped by the Stop and Start System, the engine does not restart even if the throttle grip is turned.

1. Is the Stop and Start System switch set to “

10-31

## **Periodic maintenance and adjustment**

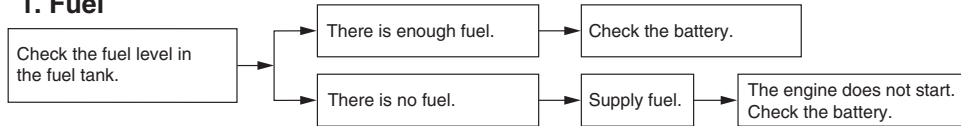
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If the engine is left stopped by the Stop and Start System for a long period of time, the battery could become discharged.

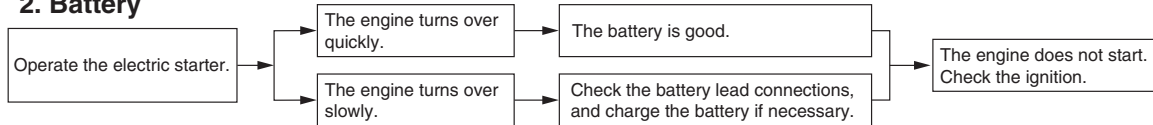
If the engine still does not restart after you checked the preceding conditions, have a Yamaha dealer check the vehicle as soon as possible.

## Troubleshooting chart

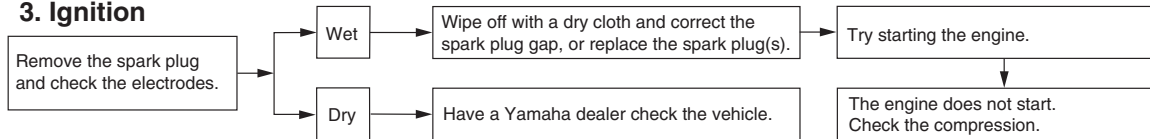
### 1. Fuel



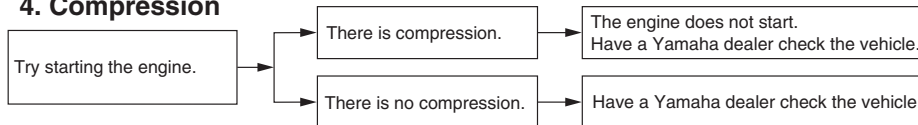
### 2. Battery



### 3. Ignition



### 4. Compression




# Periodic maintenance and adjustment

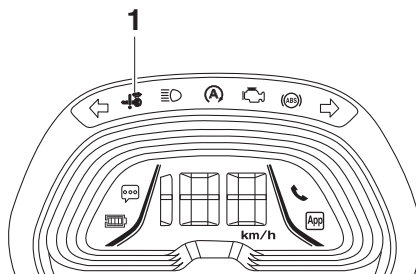
## Emergency mode (LTF125-A)


EAU76564

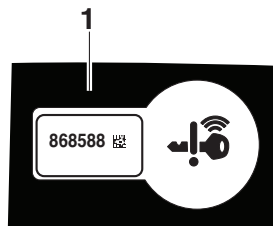
When the smart key is lost or damaged, or its battery has discharged, the vehicle can still be turned on and the engine started. You will need the smart key system identification number.

### To operate the vehicle in emergency mode

1. Stop the vehicle in a safe place and confirm the main switch is set to either “” or “OFF”.
2. Push the main switch knob for 5 seconds until the smart key system indicator light flashes once, then release it. Repeat two more times. The smart key system indicator light will come on for three seconds to indicate the transition to emergency mode.



1. Smart key system indicator light “”
3. After the smart key system indicator light goes off, input the identification number as follows.



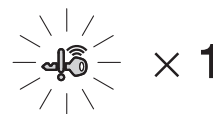
1. Identification number card
4. Inputting the identification number is done by counting the number of flashes of the smart key system indicator light.

For example, if the identification number is 123456:

Push and hold the knob.



The smart key system indicator light will start to flash.



Release the knob after the smart key system indicator light flashes once.



The first digit of the identification number has been set as “1”.



Push and hold the knob again.



# Periodic maintenance and adjustment

---

Release the knob after the smart key system indicator light flashes twice.



The second digit has been set as “2”.



Repeat the above procedure until all digits of the identification number have been set. The smart key system indicator light will flash for 10 seconds if the correct identification number was entered.

## TIP

---

When one of the following situations applies, emergency mode will be terminated and the smart key system indicator light will flash quickly for 3 seconds. In this case, start over again from step 2.

- When there are no knob operations for 10 seconds during the identification number input process.
- When the smart key system indicator light is allowed to flash nine or more times.

- The identification number is not entered correctly.

5. While the smart key system indicator light is on, push the knob once more to complete emergency mode access. The smart key indicator light will go off and then come back on for approximately 4 seconds.
6. While the smart key system indicator light is on, turn the main switch to “ON”. The vehicle can now be operated normally.

# Scooter care and storage

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## Matte color caution

EAU37834

EAU84992

### **NOTICE**

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

---

ECA15193

## Care

Frequent, thorough cleaning of the vehicle will not only enhance its appearance but also will improve its general performance and extend the useful life of many components. Washing, cleaning, and polishing will also give you a chance to inspect the condition of the vehicle more frequently. Be sure to wash the vehicle after riding in the rain or near the sea, because salt is corrosive to metals.

## Special care in winter

ECA28181

### **NOTICE**

In cold weather, when roads may be salted as a de-icing method, it's important to clean the vehicle thoroughly to remove road salt and avoid corrosion. Wheel spokes, bolts/nuts and other unpainted metal parts can be especially vulnerable to corrosion from road salt. Apply an anti-corrosion product to any vulnerable parts after washing and drying the vehicle.

---

## TIP

- The roads of heavy snowfall areas may be sprayed with salt as a de-icing method. This salt can stay on the roads well into spring, so be sure to wash the underside and chassis parts after riding in such areas.
  - Genuine Yamaha care and maintenance products are sold under the YAMALUBE brand in many markets worldwide.
  - See your Yamaha dealer for additional cleaning tips.
- 

ECA26280

### **NOTICE**

Improper cleaning can cause cosmetic and mechanical damage. Do not use:

- high-pressure washers or steam-jet cleaners. Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes, transmission seals and electrical devices. Avoid high-pressure

detergent applications such as those available in coin-operated car washers.

- **harsh chemicals, including strong acidic wheel cleaners, especially on spoke or magnesium wheels.**
- **harsh chemicals, abrasive cleaning compounds, or wax on matte-finished parts. Brushes can scratch and damage the matte-finish, use soft sponge or towel only.**
- **towels, sponges, or brushes contaminated with abrasive cleaning products or strong chemicals such as, solvents, gasoline, rust removers, brake fluid, or antifreeze, etc.**

## Before washing

1. Park the vehicle out of direct sunlight and allow it to cool. This will help avoid water spots.
2. Make sure all caps, covers, electrical couplers and connectors are tightly installed.
3. Cover the muffler end with a plastic bag and a strong rubber band.

4. Pre-soak stubborn stains like insects or bird droppings with a wet towel for a few minutes.
5. Remove road grime and oil stains with a quality degreasing agent and a plastic-bristle brush or sponge. **NOTICE: Do not use degreasing agent on areas requiring lubrication such as seals, gaskets, and wheel axles. Follow product instructions.**

[ECA26290]

## Washing

1. Rinse off any degreaser and spray down the vehicle with a garden hose. Use only enough pressure to do the job. Avoid spraying water directly into the muffler, instrument panel, air inlet, or other inner areas such as underseat storage compartments.
2. Wash the vehicle with a quality automotive-type detergent mixed with cool water and a soft, clean towel or sponge. Use an old toothbrush or plastic-bristle brush for hard-to-reach places. **NOTICE: Use cold water if the vehicle has**

**been exposed to salt. Warm water will increase salt's corrosive properties.** [ECA26301]

3. For windshield-equipped vehicles: Clean the windshield with a soft towel or sponge dampened with water and a pH neutral detergent. If necessary, use a high-quality windshield cleaner or polish for motorcycles. **NOTICE: Never use any strong chemicals to clean the windshield. Additionally, some cleaning compounds for plastic may scratch the windshield, so be sure to test all cleaning products before general application.** [ECA26310]
4. Rinse off thoroughly with clean water. Be sure to remove all detergent residues, as they can be harmful to plastic parts.

## After washing

1. Dry the vehicle with a chamois or absorbent towel, preferably microfiber terrycloth.
2. For drive chain-equipped models: Dry and then lubricate the drive chain to prevent rust.

# Scooter care and storage

---

3. Use a chrome polish to shine chrome, aluminum, and stainless steel parts. Often the thermally induced discoloring of stainless steel exhaust systems can be removed through polishing.
4. Apply a corrosion protection spray on all metal parts including chrome or nickel-plated surfaces. **WARNING! Do not apply silicone or oil spray to seats, hand grips, rubber foot pegs or tire treads. Otherwise these parts will become slippery, which could cause loss of control. Thoroughly clean the surfaces of these parts before operating the vehicle.** [EWA20651]
5. Treat rubber, vinyl, and unpainted plastic parts with a suitable care product.
6. Touch up minor paint damage caused by stones, etc.
7. Wax all painted surfaces using a non-abrasive wax or use a detail spray for motorcycles.
8. When finished cleaning, start the engine and let it idle for several minutes to help dry any remaining moisture.
9. If the headlight lens has fogged up, start the engine and turn on the headlight to help remove the moisture.
10. Let the vehicle dry completely before storing or covering it.

ECA26320

## NOTICE

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- Do not apply wax to rubber or unpainted plastic parts.
- Do not use abrasive polishing compounds as they will wear away the paint.
- Apply sprays and wax sparingly. Wipe off excess afterwards.

EWA20660

## WARNING

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

- Make sure there is no lubricant or wax on the brakes or tires.
- If necessary, wash the tires with warm water and a mild detergent.

- If necessary, clean the brake discs and pads with brake cleaner or acetone.
  - Before riding at higher speeds, test the vehicle's braking performance and cornering behavior.
-

## Storage

Always store the vehicle in a cool, dry place. If necessary, protect it against dust with a porous cover. Be sure the engine and the exhaust system are cool before covering the vehicle. If the vehicle often sits for weeks at a time between uses, the use of a quality fuel stabilizer is recommended after each fill-up.

EAU83472

ECA21170

### NOTICE

- **Storing the vehicle 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 storage

Before storing the vehicle long term (60 days or more):

1. Make all necessary repairs and perform any outstanding maintenance.
  2. Follow all instructions in the Care section of this chapter.
  3. Fill up the fuel tank, adding fuel stabilizer according to product instructions. Run the engine for 5 minutes to distribute treated fuel through the fuel system.
  4. For vehicles equipped with a fuel cock: Turn the fuel cock lever to the off position.
  5. For vehicles with a carburetor: To prevent fuel deposits from building up, drain the fuel in the carburetor float chamber into a clean container. Retighten the drain bolt and pour the fuel back into the fuel tank.
  6. Use a quality engine fogging oil according to product instructions to protect internal engine components from corrosion. If engine fogging oil is not available, perform the following steps for each cylinder:
    - a. Remove the spark plug cap and spark plug.
    - b. Pour a teaspoonful of engine oil into the spark plug bore.
    - c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
    - d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)  
**WARNING! To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.**
- [EWA10952]
- e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.
7. Lubricate all control cables, pivots, levers and pedals, as well as the sidestand and centerstand (if equipped).
  8. Check and correct the tire air pressure, and then lift the vehicle so that all wheels are off the ground. Otherwise, turn the

## Scooter care and storage

---

wheels a little once a month in order to prevent the tires from becoming degraded in one spot.

9. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
10. Remove the battery and fully charge it, or attach a maintenance charger to keep the battery optimally charged. **NOTICE: Confirm that the battery and its charger are compatible. Do not charge a VRLA battery with a conventional charger.** [ECA26330]

### TIP

---

- If the battery will be removed, charge it once a month and store it in a temperate location between 0-30 °C (32-90 °F).
  - See page 10-26 for more information on charging and storing the battery.
-

## Dimensions:

- Overall length:  
1820 mm (71.7 in)
- Overall width:  
685 mm (27.0 in)
- Overall height:  
1155 mm (45.5 in)
- Seat height:  
790 mm (31.1 in)
- Wheelbase:  
1280 mm (50.4 in)
- Ground clearance:  
125 mm (4.92 in)
- Minimum turning radius:  
1.9 m (6.23 ft)

## Weight:

- Curb weight:  
101 kg (223 lb) (LTF125-l)  
102 kg (225 lb) (LTF125-A)

## Engine:

- Combustion cycle:  
4-stroke
- Cooling system:  
Air cooled
- Valve train:  
SOHC
- Number of cylinders:  
Single cylinder
- Displacement:  
125 cm<sup>3</sup>
- Bore × stroke:  
52.4 × 57.9 mm (2.06 × 2.28 in)

## Starting system:

- Electric starter (LTF125-A)
- Electric starter and kickstarter (LTF125-l)

## Engine oil:

Recommended brand:



SAE viscosity grades:

10W-40

Recommended engine oil grade:

API service SG type or higher, JASO standard MA or MB

Engine oil quantity:

Oil change:

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

## Final transmission oil:

Type:

Motor oil SAE 10W-40 type SG or higher

Quantity:

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

## Fuel:

Recommended fuel:

Unleaded gasoline (E10 to E20 only)

Octane number (RON):

90

Fuel tank capacity:

4.4 L (1.2 US gal, 1.0 Imp.gal)

## Fuel injection:

Throttle body:

ID mark:

B8A1\_10

## Front tire:

Type:

Tubeless

Size:

110/70-12 47L

Manufacturer/model:

MAXXIS/M6219Y

## Rear tire:

Type:

Tubeless

Size:

110/70-12 47L

Manufacturer/model:

MAXXIS/M6220

## Loading:

Maximum load:

160 kg (353 lb)

(Total weight of rider, passenger, cargo and accessories)

## Unified brake system:

Operation:

Activated by rear brake (LTF125-l)

## Front brake:

Type:

Hydraulic single disc brake

## Rear brake:

Type:

Mechanical leading trailing drum brake

## Front suspension:

Type:

Telescopic fork

## Rear suspension:

Type:

Unit swing

# Specifications

---

## **Electrical system:**

System voltage:

12 V

## **Battery:**

Model:

YTZ6V (LTF125-I)

YTZ7V (LTF125-A)

Voltage, capacity:

12 V, 5.0 Ah (10 HR) (LTF125-I)

12 V, 6.0 Ah (10 HR) (LTF125-A)

## **Bulb wattage:**

Headlight:

LED

Brake/tail light:

LED

Rear turn signal light:

LED

Auxiliary light:

LED

License plate light:

5.0 W

## Identification numbers

EAU26366

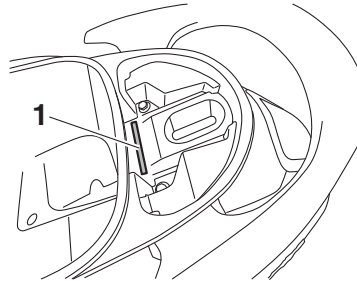
Record the vehicle identification number and the engine serial number in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

VEHICLE IDENTIFICATION NUMBER:

ENGINE SERIAL NUMBER:

## Vehicle identification number

EAU62971



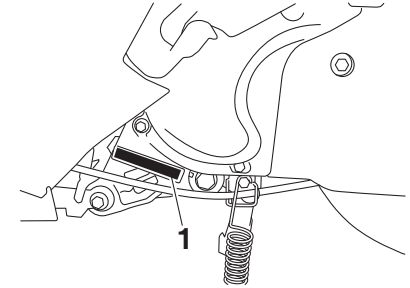
1. Vehicle identification number

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

EAU26442



1. Engine serial number

The engine serial number is stamped into the crankcase.

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