



OWNER'S MANUAL



YP250R

1C0-F8199-E1

Welcome to the Yamaha world of motorcycling!

As the owner of the YP250, 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 YP250. The owner's manual does not only instruct you in how to operate, inspect and maintain your scooter, but also in how to safeguard yourself and others from trouble and injury.

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

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

IMPORTANT MANUAL INFORMATION

EAU34110

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

	The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
 WARNING	Failure to follow WARNING instructions could result in severe injury or death to the scooter operator, a bystander, or a person inspecting or repairing the scooter.
CAUTION	A CAUTION indicates special precautions that must be taken to avoid damage to the scooter.
NOTE:	A NOTE provides key information to make procedures easier or clearer.

NOTE:

- This manual should be considered a permanent part of this scooter and should remain with it even if the scooter is subsequently sold.
- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your scooter and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

EWA12410

WARNING

PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS SCOOTER.

IMPORTANT MANUAL INFORMATION

EAUS1171

**YP250
OWNER'S MANUAL
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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 THE OWNER'S MANUAL.
- OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES.
- OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS.

Safe riding

- Always make pre-operation checks. Careful checks may help prevent an accident.
- This scooter is designed to carry the operator and 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 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.
- Many accidents involve inexperienced operators. In fact, many operators who have been invol-

ved 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.

SAFETY INFORMATION

1

- 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 footboard 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 which 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.
- Never touch the engine or exhaust system during or after operation. They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.
- Passengers should also observe the above precautions.

Modifications

Modifications made to this scooter not approved by Yamaha, or the removal of original equipment, may render the scooter unsafe for use and may cause severe personal injury. Modifications may also make your scooter illegal to use.

Loading and accessories

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 are some general guidelines to follow if loading cargo or adding accessories to your scooter:

Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 235kg (518,17lb). 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. 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.
- 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.

Accessories

Genuine Yamaha accessories have been specifically designed for use on this scooter. Since Yamaha cannot test all other accessories that may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. Use extreme caution

when selecting and installing any accessories.

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

EAU10371

Gasoline and exhaust gas

- GASOLINE IS HIGHLY FLAMMABLE:
 - Always turn the engine off when refueling.
 - Take care not to spill any gasoline on the engine or exhaust system when refueling.
 - Never refuel while smoking or in the vicinity of an open flame.
- Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your scooter in an area that has adequate ventilation.
- Always turn the engine off before leaving the scooter unattended and remove the key from the main switch. When parking the scooter, note the following:
 - The engine and exhaust system may be hot, therefore, park the scooter in a place where pedestrians or children are not likely to touch these hot areas.

- Do not park the scooter on a slope or soft ground, otherwise it may fall over.
- Do not park the scooter near a flammable source (e.g., a kerosene heater, or near an open flame), otherwise it could catch fire.
- If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get into your eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes.

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 could get wet when you wash the scooter. After washing the scooter, check the brakes before riding.

SAFETY INFORMATION

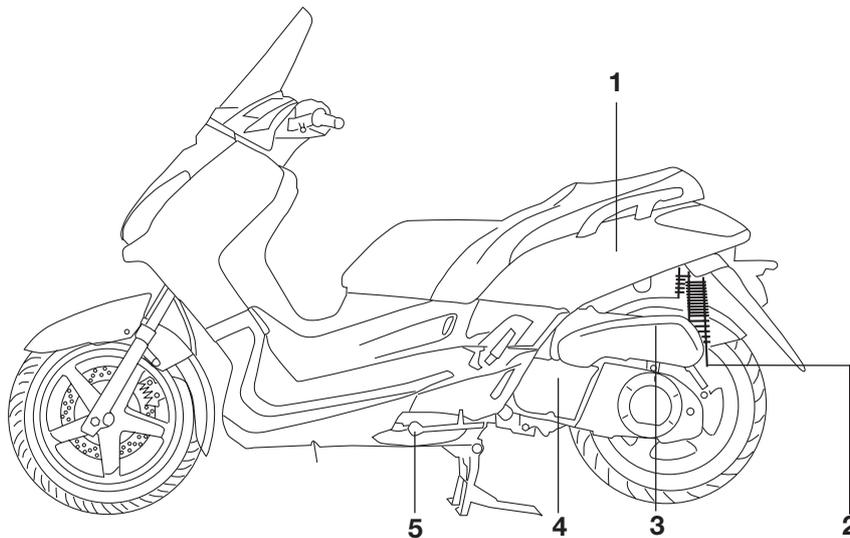
- Always wear a helmet, gloves, trousers (tapered around the cuff and ankle so they do not flap), and a bright colored jacket.
- Do not carry too much luggage on the scooter. An overloaded scooter is unstable.

DESCRIPTION

EAU10410

Left view

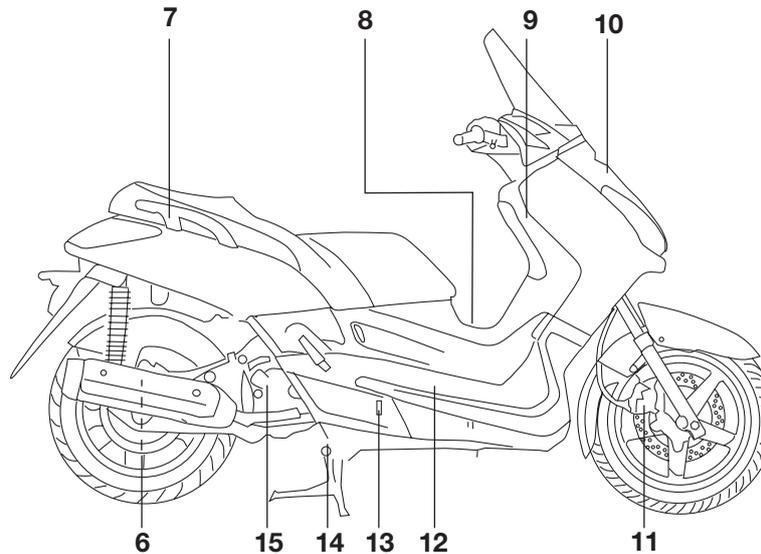
2



- 1. Storage compartment (page 3-11)
- 2. Spring preload (page 3-11)
- 3. Air filter (page 6-10)

- 4. V-Belt filter (page 6-10)
- 5. Sidestand (page 3-12)

Right view



6. Rear brake pads (page 6-14)

7. Grab bar

8. Fuel cap (page 3-8)

9. Battery (page 6-18)

10. Fuse box and main fuse (page 6-19)

11. Front brake pads (page 6-14)

12. Coolant reservoir cap (page 6-9)

13. Coolant level window (page 6-9)

14. Centerstand (page 6-16)

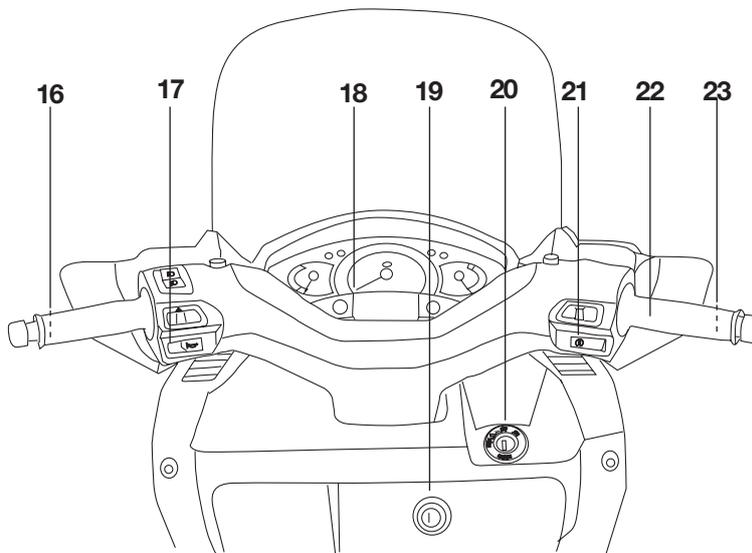
15. Oil filler cap (page 6-7)

DESCRIPTION

EAU10430

Controls and instruments

2



- 16. Rear brake lever (page 3-8)
- 17. Left handlebar switches (page 3-7)
- 18. Speedometer and multi-function panel (page 3-4)
- 19. Storage compartment (page 3-11)

- 20. Main switch (page 3-1)
- 21. Right handlebar switch (page 3-7)
- 22. Throttle grip (page 6-12)
- 23. Front brake lever (page 3-8)

EAU26890

ECA11820

Immobilizer system

This vehicle is equipped with an immobilizer system to help prevent theft by re-registering codes in the standard keys. This system consists of the following.

- a code re-registering key (with a red bow)
- two standard keys (with a black bow) that can be re-registered with new codes
- a transponder (which is installed in the code re-registering key)
- an immobilizer unit
- the ignitor unit
- an immobilizer system indicator light (See page 3-3.)

The key with the red bow is used to register codes in each standard key. Since re-registering is a difficult process, take the vehicle along with all three keys to a Yamaha dealer to have them re-registered. Do not use the key with the red bow for driving. It should only be used for re-registering the standard keys. Always use a standard key for driving.

CAUTION

- **DO NOT LOSE THE CODE RE-REGISTERING KEY! CONTACT YOUR DEALER IMMEDIATELY IF IT IS LOST! If the code re-registering key is lost, registering new codes in the standard keys is impossible. The standard keys can still be used to start the vehicle, however if code re-registering is required (i.e., if a new standard key is made or all keys are lost) the entire immobilizer system must be replaced. Therefore, it is highly recommended to use either standard key and keep the code re-registering key in a safe place.**
- **Do not submerge any key in water.**
- **Do not expose any key to excessively high temperatures.**
- **Do not place any key close to magnets (this includes, but not limited to, products such as speakers, etc.).**

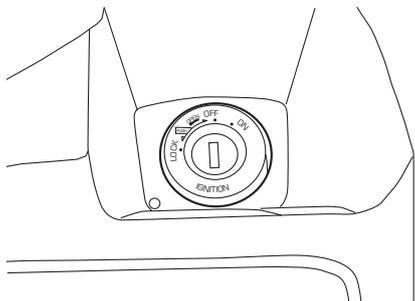
- **Do not place heavy items on any key.**
- **Do not grind any key or alter its shape.**
- **Do not disassemble the plastic part of any key.**
- **Do not put two keys of any immobilizer system on the same key ring.**
- **Keep the standard keys as well as keys of other immobilizer systems away from this vehicle's code re-registering key.**
- **Keep other immobilizer system keys away from the main switch as they may cause signal interference.**

EAU10471

Main switch/steering lock

The main switch/steering lock controls the ignition and lighting systems, and is used to lock the steering.

INSTRUMENT AND CONTROL FUNCTIONS



3

NOTE:

Be sure to use the standard key (black bow) for regular use of the vehicle. To minimize the risk of losing the code re-registering key (red bow), keep it in a safe place and only use it for code re-registering.

EAU10550

ON

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

NOTE:

The headlights come on automatically when the engine is started and stay

on until the key is turned to "OFF", even if the engine stalls.

EAU10660

OFF

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

EAU10680

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.

To unlock the steering

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

EWA10060

▲ WARNING

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

accident. Make sure that the vehicle is stopped before turning the key to "OFF" or "LOCK".

EAU33461

Indicators, indicator lights and warning light

EAU11030

Turn signal indicator lights "↔" and "↔"

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

EAU11080

High beam indicator light "☰"

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

EAU11350

Fuel level warning light "⛽"

This warning light comes on when the fuel level drops below approximately 2.0L (0.44USgal)(1.76Imp.gal). When this occurs, refuel as soon as possible.

The electrical circuit of the warning light can be checked by turning the key to "ON".

INSTRUMENT AND CONTROL FUNCTIONS

If the warning light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit.

EAUS1310

Immobilizer system indicator light

The electrical circuit of the indicator light can be checked by turning the key to "ON".

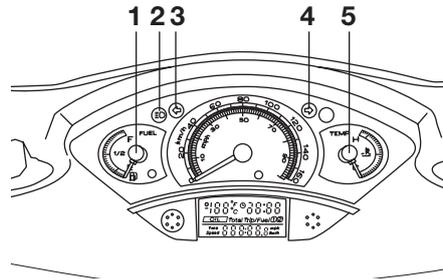
If the indicator light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit.

When the key is turned to "OFF", the indicator light will start flashing indicating the immobilizer system is enabled. After 24 hours have passed, the indicator light will stop flashing, however the immobilizer system is still enabled.

This model is also equipped with a self-diagnosis device for the immobilizer system.

EAU11591

Speedometer

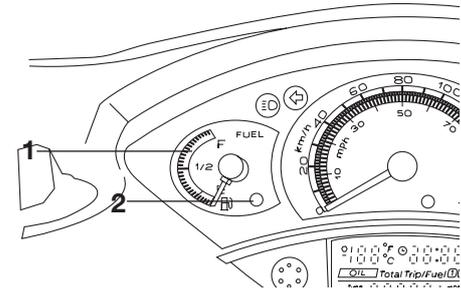


1. Fuel level gauge
2. High beam indicator light
3. Left turning signal light
4. Right turning signal light
5. Coolant temperature gauge

The speedometer shows the riding speed.

EAU12110

Fuel gauge



1. Fuel gauge
2. Fuel warning light

The fuel gauge indicates the amount of fuel in the fuel tank. The needle moves towards "E" (Empty) as the fuel level decreases. When the needle reaches "E", approximately 2.0L (0.44USgal) (1.76Imp.gal) of fuel remain in the fuel tank. If this occurs, refuel as soon as possible.

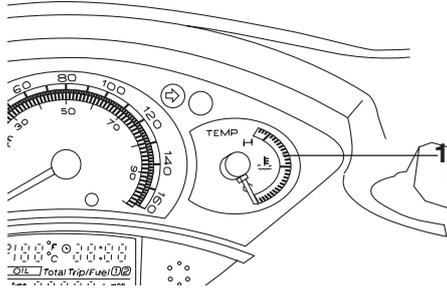
NOTE:

Do not allow the fuel tank to empty itself completely.

INSTRUMENT AND CONTROL FUNCTIONS

EAU12171

Coolant temperature gauge



1. Temperature gauge

With the key in the "ON" position, the coolant temperature gauge indicates the temperature of the coolant. The coolant temperature varies with changes in the weather and engine load. If the needle reaches or enters the red zone, stop the vehicle and let the engine cool. (See page 6-25.)

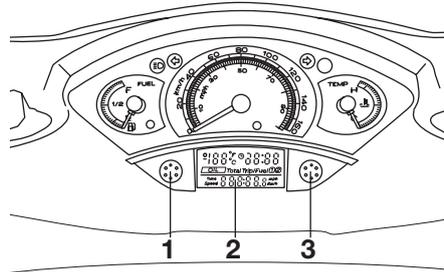
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CAUTION

Do not operate the engine if it is overheated.

EAUM1480

Multi-function display



1. "MODE" button
2. Multi-function display
3. "SET" button

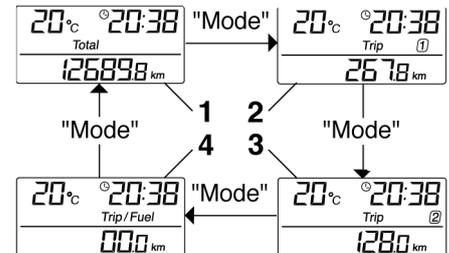
The multi-function display is equipped with the following:

- an odometer (which shows the total distance traveled)
- two tripmeters (which show the distance traveled since they were last set to zero, the time passed since the tripmeters were set to zero, and the average speed traveled during this time)
- a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on)

- a clock
- an ambient temperature display
- a service indicator (which is displayed when periodic maintenance and lubrication is necessary)

NOTE:

- For the UK, the distance traveled is displayed in miles and the temperature reading is displayed in °F.
- For other countries, the distance traveled is displayed in kilometers and the temperature reading is displayed in °C.



ZALM0391

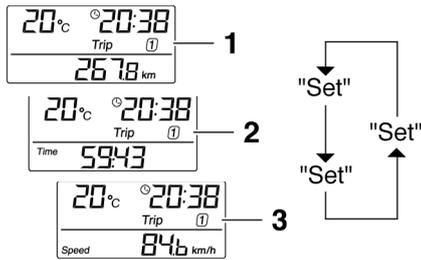
1. Total
2. Trip 1
3. Trip 2
4. Trip/Fuel

INSTRUMENT AND CONTROL FUNCTIONS

Odometer and tripmeter modes

Pushing the "MODE" button switches the display between the odometer mode "Total" and the tripmeter modes "Trip" in the following order:

Total → Trip 1 → Trip 2 → Trip/fuel
→ Total



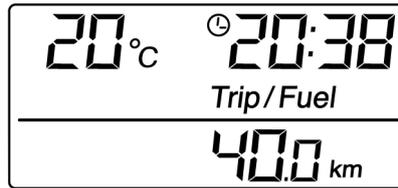
1. Distance
2. Time
3. Average speed

NOTE:

- The Trip/fuel odometer is only activated if the fuel level warning light comes on.

Pushing the "SET" button when in the tripmeter mode switches the display between the different tripmeter functions in the following order:

Distance → Time → Average speed
→ Distance



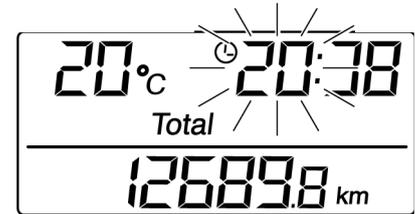
ZAUIM0395

If the fuel level warning light comes on (See page 3-2.), the display will automatically change to the fuel reserve tripmeter mode "Trip/fuel" and start counting the distance traveled from that point. In that case, pushing the "SET" button switches the display between the various tripmeter and odometer modes in the following order:

Trip/Fuel → Trip 1 → Trip 2 → Total
→ Trip/fuel

To reset a tripmeter, select it by pushing the "MODE" button, and then push the "SET" button for at least one second. If you do not reset the fuel

reserve tripmeter manually, it will reset itself automatically and the display will return to the prior mode after refueling and traveling 5 km.



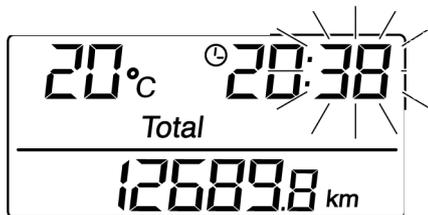
ZAUIM0394

Clock mode

To set the clock:

1. When the display is in the "Total" mode, push the "SET" button for at least two seconds.
2. When the hour digits start flashing, push the "SET" button to set the hours.

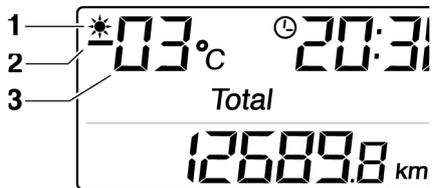
INSTRUMENT AND CONTROL FUNCTIONS



ZAJUM0395

3. Push the "MODE" button, and the minute digits will start flashing.
4. Push the "SET" button to set the minutes.
5. Push the "MODE" button and then release it to start the clock. The display will return to the "Total" mode.

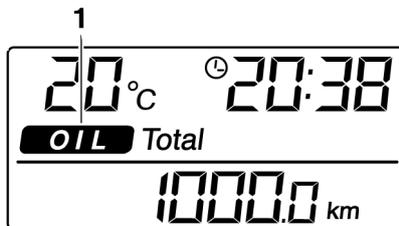
Ambient temperature display



ZAJUM0396

1. Frost warning indicator
2. Negative symbol
3. Ambient temperature

This display shows the ambient temperature from -30°C to 50°C. The frost warning indicator "*" automatically comes on if the temperature is lower than 3°C



ZAJUM0582

1. Oil change indicator

Service indicator

When periodic maintenance and lubrication is necessary (See page 6-3.), "OIL" will appear in the display until the Service indicator reset is made.

To reset the service indicator:

1. Turn the key to "ON".
2. Hold the "MODE" and "SET" button pushed for two to five seconds.
3. Release the buttons, and the service indicator will go off.

NOTE: _____

- The service indicator will come on at the initial 1000 km and every 3000 km thereafter.
- If periodic maintenance and lubrication is performed before the service indicator comes on, the indicator must be reset as soon as possible so that it comes for the next periodic maintenance and lubrication interval.

INSTRUMENT AND CONTROL FUNCTIONS

Anti-theft alarm (optional)

This motorcycle can be equipped with an optional anti-theft alarm by a Yamaha dealer. Contact a Yamaha dealer for more information.

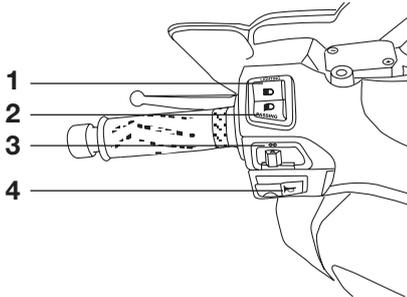
EAU12331

Handlebar switches

Pass switch “PASSING”

EAU12343

EAU51300



1. Dimmer switch
2. “PASSING” switch
3. Turn signal switch
4. Horn switch

Press this switch to flash the headlight.

Dimmer switch “ \equiv D/ \equiv D”

EAUS1020

Set this switch to “ \equiv D” for the high beam and to “ \equiv D” for the low beam. With the headlight on low beam, press this switch downwards to flash the headlight.

Turn signal switch “ \leftarrow / \rightarrow ”

EAU12460

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

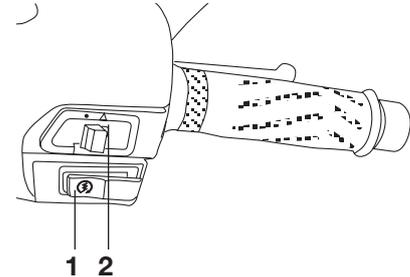
Horn switch “ H ”

EAU12500

Press this switch to sound the horn.

Start switch “ S ”

EAUM1131



1. Starting switch
2. Hazard switch

Push this switch while applying the front or rear brake to crank the engine with the starter.

CAUTION

ECA10050

See page 5-1 for starting instructions prior to starting the engine.

Hazard switch “ \triangle ”, “ \odot ”

EAUM1990

With the key in the “ \odot ” position, set this switch to “ \triangle ” to turn on the hazard lighting (simultaneous flashing of all turn signal lights). To turn off the hazard lighting, set this switch to “ \odot ” and, then turn the key to “ OFF ”.

INSTRUMENT AND CONTROL FUNCTIONS

NOTE:

Even if the key is turned from "○" to "⊗" with the hazard lighting on, the hazard lighting will continue to flash regardless of the hazard switch position. To cancel the hazard lighting, the key must be turned to "○" and the hazard switch must be set to the "⊙" position.

The hazard lighting is used in case of an emergency or to warn other drivers when your scooter is stopped where it might be a traffic hazard.

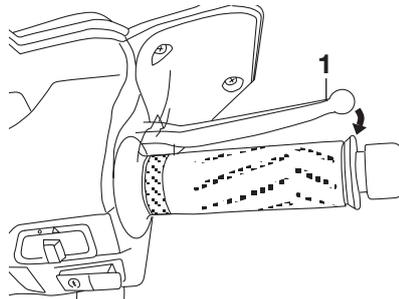
ECA10060

CAUTION

Do not use the hazard light for an extended length of time, otherwise the battery may discharge.

Front brake lever

EAU12900

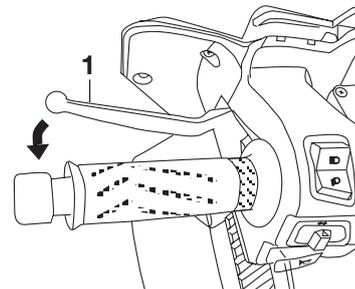


1. Front brake lever

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

Rear brake lever

EAU12950



1. Rear brake lever

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

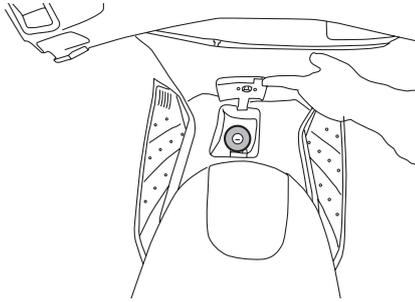
EAUM2080

Fuel tank cap

To remove the fuel tank cap

1. Open the fuel tank cap lock cover.

INSTRUMENT AND CONTROL FUNCTIONS



2. Insert the key into the lock and turn it 1/4 turn counterclockwise. The lock will be released and the fuel tank cap can be removed.

To install the fuel tank cap

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

NOTE:

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

⚠ WARNING

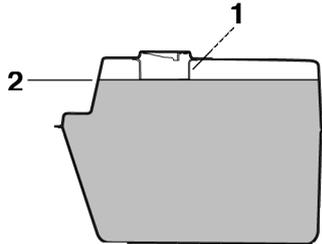
Make sure that the fuel tank cap is properly installed before riding.

EWA11140

Fuel

Make sure that there is sufficient fuel in the tank.

EAU13230



ZAUM0020

1. Filler tube
2. Fuel level

EWA10990

⚠ WARNING

Since gasoline is flammable, the following precautions must be observed.

- Stop the engine before refueling.

- Never attempt to refuel the scooter while smoking or near an open flame.
- Take special care not to spill gasoline over the engine or muffler when refueling immediately after operation.
- Before starting the engine, quickly wipe off any gasoline spilled on the engine or muffler.

3

CAUTION

Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

ECA10070

Recommended fuel:

REGULAR UNLEADED GASOLINE ONLY

Fuel tank capacity:

12L (2,64US gal) (10,55Imp gal)

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

2L (0,44 US gal) (1,76 Imp gal)

EAU33500

INSTRUMENT AND CONTROL FUNCTIONS

CAUTION

ECA11400

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

3

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

EAU13431

Catalytic converter

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

EWA10860

WARNING

The exhaust system is hot after operation. Make sure that the exhaust system has cooled down before doing any maintenance work.

CAUTION

ECA10700

The following precautions must be observed to prevent a fire hazard or other damages.

- Use only unleaded gasoline. The use of leaded gasoline will cause unreparable damage to the catalytic converter.
- Never park the vehicle near possible fire hazards such as grass or other materials that easily burn.
- Do not allow the engine to idle too long.

EAU13931

Seat

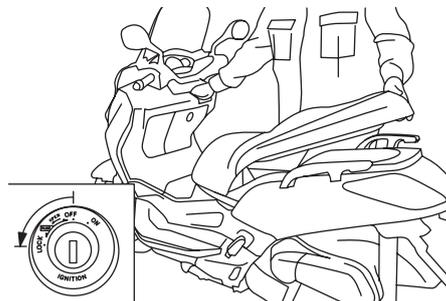
To open the seat

1. Place the scooter on the centerstand.
2. Insert the key into the main switch, and then turn it counter-clockwise.

NOTE:

Do not push inward when turning the key.

3. Fold the seat up.



To close the seat

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

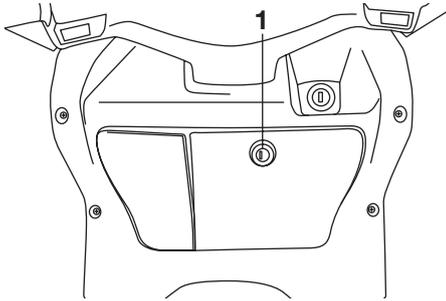
NOTE:

Make sure that the seat is properly secured before riding.

INSTRUMENT AND CONTROL FUNCTIONS

Storage compartment

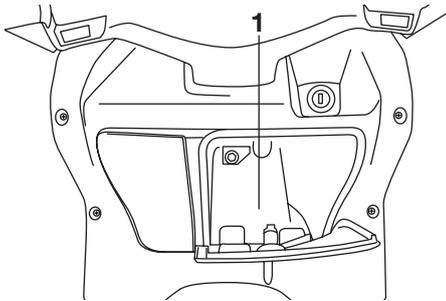
EAU14540



1. Lock

To open the storage compartment

Insert the key into the lock, turn it clockwise, and then pull on it to open the storage compartment lid.



1.Storage compartment

To close the storage compartment
Push the storage compartment lid into the original position, and then remove the key.

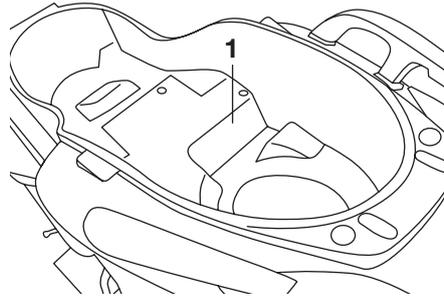
EWA10960

⚠ WARNING

- Do not exceed the load limit of 1kg (2,205 lb) for the storage compartment.
- Do not exceed the maximum load of 235kg (518,17lb) for the vehicle.

Storage compartment

EAU14451



1.Storage compartment

The storage compartment is located under the seat. (See page 3-10.)

⚠ WARNING

EWA10961

- Do not exceed the load limit of 5kg (11,02 lb) for the storage compartment.
- Do not exceed the maximum load of 235kg (518,17lb) for the vehicle.

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

3

Adjusting the shock absorber assemblies

EAU14880

Each shock absorber assembly is equipped with a spring preload adjusting ring.

CAUTION

ECA10100

Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings.

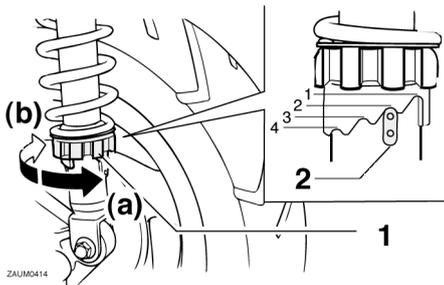
INSTRUMENT AND CONTROL FUNCTIONS

EWA10210

⚠ WARNING

Always adjust both shock absorber assemblies equally, otherwise poor handling and loss of stability may result.

Adjust the spring preload as follows.



1. Adjusting ring
2. Position indicator

To increase the spring preload and thereby harden the suspension, turn the adjusting ring on each shock absorber assembly in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting ring on each shock absorber assembly in direction (b).

NOTE:

Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber.

Spring preload setting:

Minimum (soft):

1

Standard:

1

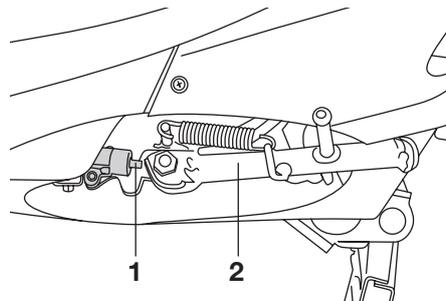
Maximum (hard):

4

EAU15301

Sidestand

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



1. Sidestand switch
2. Sidestand

NOTE:

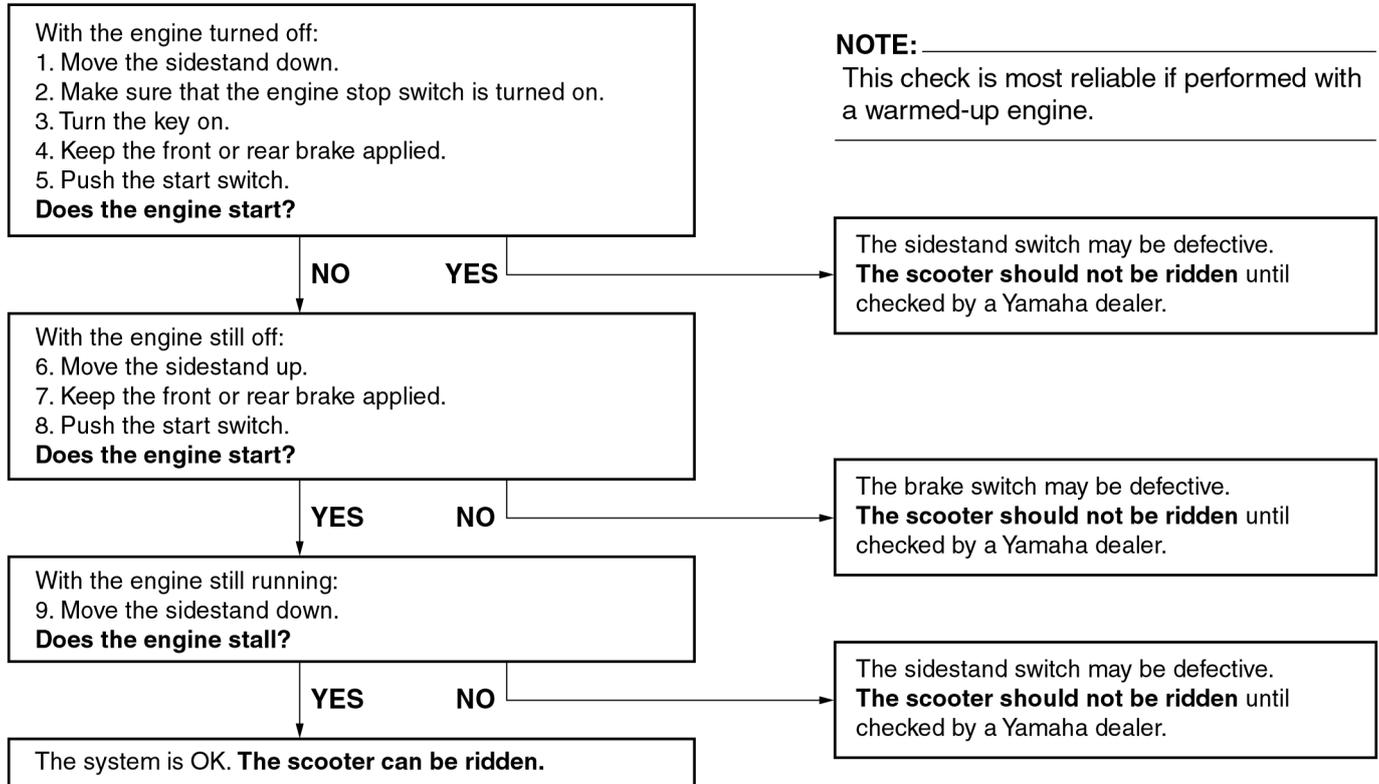
The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (See further down for an explanation of the ignition circuit cut-off system.)

EWA10240

⚠ WARNING

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

INSTRUMENT AND CONTROL FUNCTIONS



PRE-OPERATION CHECKS

EAU15591

The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

4

NOTE: _____

Pre-operation checks should be made each time the vehicle is used. Such an inspection can be accomplished in a very short time; and the added safety it assures is more than worth the time involved.

EWA11150

⚠ WARNING _____

If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the vehicle.

PRE-OPERATION CHECKS

EAU15603

Pre-operation check list

ITEM	CHECKS	PAGE
Fuel	<ul style="list-style-type: none">• Check fuel level in fuel tank.• Refuel if necessary.• Check fuel line for leakage.	3-9
Engine oil	<ul style="list-style-type: none">• Check oil level in engine.• If necessary, add recommended oil to specified level.• Check vehicle for oil leakage.	6-7
Final transmission oil	<ul style="list-style-type: none">• Check vehicle for oil leakage.	6-8
Coolant	<ul style="list-style-type: none">• Check coolant level in reservoir.• If necessary, add recommended coolant to specified level.• Check cooling system for leakage.	6-9
Front brake	<ul style="list-style-type: none">• Check operation.• If soft or spongy, have Yamaha dealer bleed hydraulic system.• Check brake pads for wear.• Replace if necessary.• Check fluid level in reservoir.• If necessary, add recommended brake fluid to specified level.• Check hydraulic system for leakage.	3-8, 6-14
Rear brake	<ul style="list-style-type: none">• Check operation.• If soft or spongy, have Yamaha dealer bleed hydraulic system.• Check brake pads for wear.• Replace if necessary.• Check fluid level in reservoir.• If necessary, add recommended brake fluid to specified level.• Check hydraulic system for leakage.	3-8, 6-14
Throttle grip	<ul style="list-style-type: none">• Make sure that operation is smooth.• Check cable free play.• If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing.	6-12
Control cables	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate if necessary.	—

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Wheels and tires	<ul style="list-style-type: none">• Check for damage.• Check tire condition and tread depth.• Check air pressure.• Correct if necessary.	6-12, 6-14
Brake levers	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate lever pivoting points if necessary.	3-8
Centerstand, sidestand	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate pivots if necessary.	3-12, 6-16
Chassis fasteners	<ul style="list-style-type: none">• Make sure that all nuts, bolts and screws are properly tightened.• Tighten if necessary.	—
Instruments, lights, signals and switches	<ul style="list-style-type: none">• Check operation.• Correct if necessary.	—
Sidestand switch	<ul style="list-style-type: none">• Check operation of ignition circuit cut-off system.• If system is defective, have Yamaha dealer check vehicle.	3-12

OPERATION AND IMPORTANT RIDING POINTS

EAU15970
EWA11250

WARNING

- Become thoroughly familiar with all operating controls and their functions before riding. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation.
- For safety, always start the engine with the centerstand down.
- When the centerstand is down and the engine is idling, keep your hands and feet away from the rear wheel.

EAUM1210

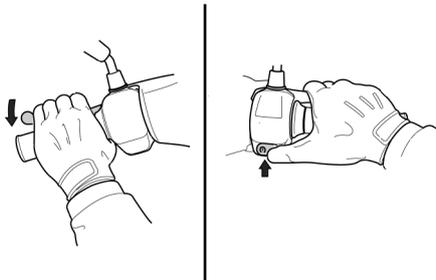
Starting a cold engine

ECA10250

CAUTION

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

1. Turn the key to "O".
2. Close the throttle completely.



3. Start the engine by pushing the start switch while applying the front or rear brake.

NOTE:

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

engine more than 10 seconds on any one attempt.

ECA11040

CAUTION

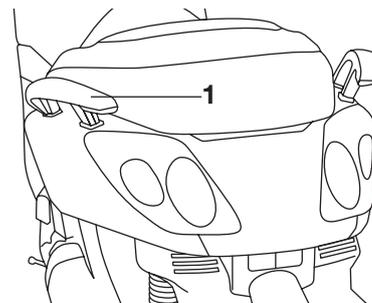
For maximum engine life, never accelerate hard when the engine is cold!

EAU16760

Starting off

NOTE:

Before starting off, allow the engine to warm up.



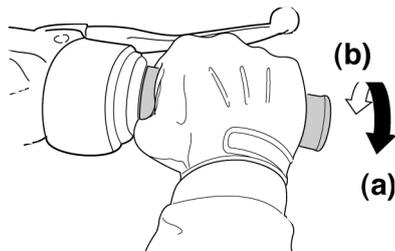
1. Grab bar

OPERATION AND IMPORTANT RIDING POINTS

1. While pulling the rear brake lever with your left hand and holding the grab bar with your right hand, push the scooter off the centerstand.
2. Sit astride the seat, and then adjust the rear view mirrors.
3. Switch the turn signal 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 signal off.

EAU16780

Acceleration and deceleration



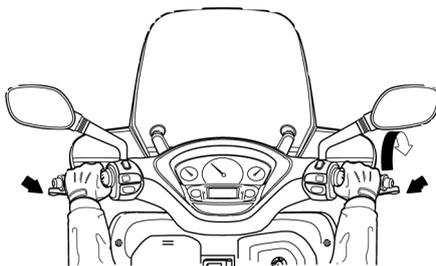
ZAU00199

The speed can be adjusted by opening and closing the throttle. To incre-

ase the speed, turn the throttle grip in direction (a). To reduce the speed, turn the throttle grip in direction (b).

EAU16791

Braking



ZAU00472

1. Close the throttle completely.
2. Apply both front and rear brakes simultaneously while gradually increasing the pressure.

EWA10300

⚠ 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.**

EAU16820

Tips for reducing fuel consumption

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

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

OPERATION AND IMPORTANT RIDING POINTS

Engine break-in

EAU16841

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.

EAUM2010

0 ~ 1000 km (0 ~ 600 mi)

Avoid prolonged operation above 1/3 throttle.

1000 ~ 1600 km (600 ~ 1000 mi)

Avoid prolonged operation above 1/2 throttle.

ECA11660

CAUTION

After 1000 km (600 mi) of operation, be sure to replace the engine oil and final transmission oil.

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

ECA10270

CAUTION

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

EAU17212

Parking

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

EWA10310

⚠ 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.**
- **Do not park on a slope or on soft ground, otherwise the vehicle may overturn.**

ECA10380

CAUTION

Never park in an area where there are fire hazards such as grass or other flammable materials.

PERIODIC MAINTENANCE AND MINOR REPAIR

6

EAU17280

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

The intervals given in the periodic maintenance and lubrication chart 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.

EWA10320

⚠ WARNING

If you are not familiar with maintenance work, have a Yamaha dealer do it for you.

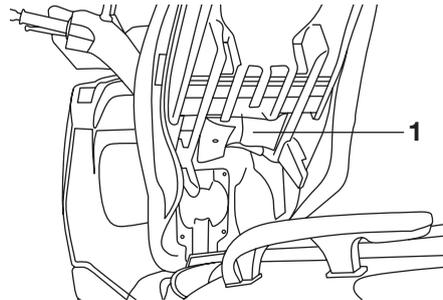
EWA10330

⚠ WARNING

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

EAU17380

Owner's tool kit



1. Owner's tool kit

The owner's tool kit is located under the seat. (See page 3-10.)

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

NOTE:

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

EWA10350

⚠ WARNING

Modifications not approved by Yamaha may cause loss of performance and render the vehicle unsafe for use. Consult a Yamaha dealer before attempting any changes.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU17705

Periodic maintenance and lubrication chart

NOTE:

- The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.
- From 50000 km, repeat the maintenance intervals starting from 10000 km.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

No	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (x 1000 Km)					ANNUAL CHECK
			1	10	20	30	40	
1	* Fuel line	• Check fuel and vacuum hoses for cracks or damage.		√	√	√	√	√
2	Spark plug	• Check condition. • Clean and regap.		√		√		
		• Replace.			√		√	
3	* Valves	• Check valve clearance. • Adjust.			√		√	
4	Air filter element	• Replace.			√		√	
5	* V-belt case air filter elements	• Clean.		√		√		
		• Replace.			√		√	
6	* Front brake	• Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
		• Replace brake pads.	Whenever worn to the limit					
7	* Rear brake	• Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
		• Replace brake pads.	Whenever worn to the limit					

PERIODIC MAINTENANCE AND MINOR REPAIR

No	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (x 1000 Km)					ANNUAL CHECK	
			1	10	20	30	40		
8	* Brake hose	<ul style="list-style-type: none"> • Check for cracks or damage. • Replace. 		√	√	√	√	√	
9	* Wheels	<ul style="list-style-type: none"> • Check runout and for damage. 		√	√	√	√		
10	* Tires	<ul style="list-style-type: none"> • Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary. 		√	√	√	√	√	
11	* Wheel bearings	<ul style="list-style-type: none"> • Check bearing for looseness or damage. 		√	√	√	√		
12	* Steering bearings	<ul style="list-style-type: none"> • Check bearing play and steering for roughness. • Lubricate with lithium-soap-based grease. 	√	√	√	√	√		
13	* Chassis fasteners	<ul style="list-style-type: none"> • Make sure that all nuts, bolts and screws are properly tightened. 		√	√	√	√	√	
14	Sidestand, centerstand	<ul style="list-style-type: none"> • Check operation. • Lubricate. 		√	√	√	√	√	
15	* Sidestand switch	<ul style="list-style-type: none"> • Check operation. 	√	√	√	√	√	√	
16	* Front fork	<ul style="list-style-type: none"> • Check operation and for oil leakage. 		√	√	√	√		
17	* Shock absorber assemblies	<ul style="list-style-type: none"> • Check operation and shock absorbers for oil leakage. 		√	√	√	√		
18	* Carburetor	<ul style="list-style-type: none"> • Adjust engine idling speed. 	√	√	√	√	√	√	
19	Engine oil	<ul style="list-style-type: none"> • Change. (See page 3-6.) • Check oil level and vehicle for oil leakage. 	√	When the oil change indicator light comes on (every 3000 km)					
20	* Engine oil strainer	<ul style="list-style-type: none"> • Clean. 	√					√	
21	* Cooling system	<ul style="list-style-type: none"> • Check coolant level and vehicle for coolant leakage. • Change. 		√	√	√	√	√	
			Every 3 years						

PERIODIC MAINTENANCE AND MINOR REPAIR

No	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (x 1000 Km)					ANNUAL CHECK
			1	10	20	30	40	
22	Final transmission oil	• Check vehicle for oil leakage.	√	√		√		
		• Change.	√		√		√	
23 *	V-belt	• Replace.	Every 20000 km					
24 *	Front and rear brake switches	• Check operation.	√	√	√	√	√	√
25	Moving parts and cables	• Lubricate.		√	√	√	√	√
26 *	Throttle grip housing and cable	• Check operation and free play. • Adjust the throttle cable free play if necessary. • Lubricate the throttle grip housing and cable.		√	√	√	√	√
27 *	Muffler and exhaust pipe	• Check the screw clamp for looseness.	√	√	√	√	√	
28 *	Lights, signals and switches	• Check operation. • Adjust headlight beam.	√	√	√	√	√	√

NOTE: _____

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
 - Regularly check and, if necessary, correct the brake fluid level.
 - Every two years replace the internal components of the brake master cylinder and caliper, and change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged.

PERIODIC MAINTENANCE AND MINOR REPAIR

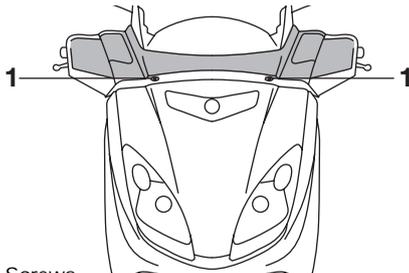
Removing and installing cowlings and panels

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

EAU18712

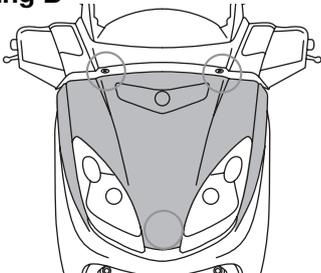
Cowling A

To remove the cowling



1. Screws

Cowling B



Screws

Remove the screws, and then take the cowling off.

To install the cowling

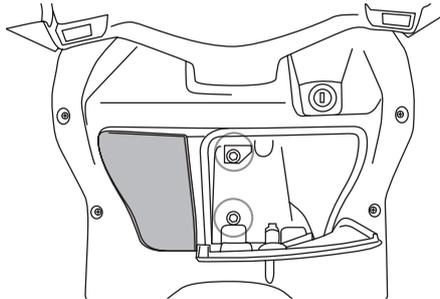
Place the cowling in the original position, and then install the screws.

EAUM1250

Panel A

To remove the panel

1. Open the storage compartment. (See page 3-11.)



Screws

2. Remove the screw, and then take the panel off.

To install the panel

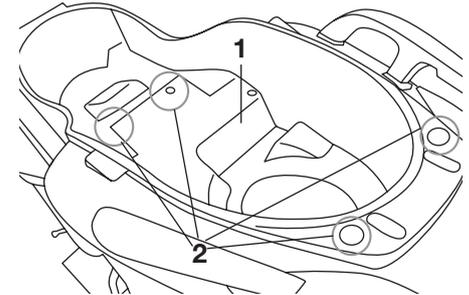
1. Place the panel in the original position, and then install the screw.
2. Close the storage compartment.

EAUS1280

Checking the spark plug

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

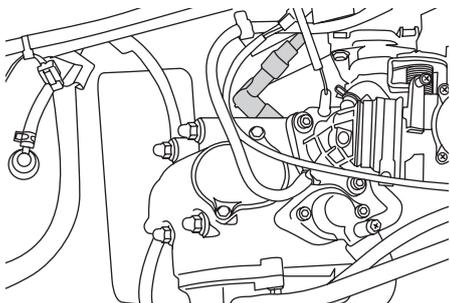
To remove the spark plug



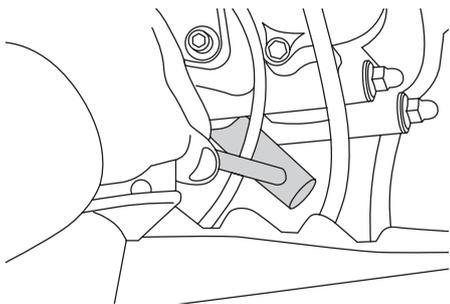
1. Storage compartment
2. Screws

1. Open the seat. (See page 3-10.)
2. Remove the storage compartment under the seat by removing the bolts.

PERIODIC MAINTENANCE AND MINOR REPAIR



3. Remove the spark plug cap.



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

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 motorcycle is ridden normally).

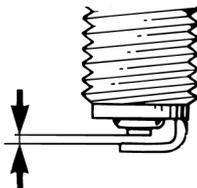
NOTE:

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

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

Specified spark plug:
NGK DR8EA

To install the spark plug



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

Spark plug gap:
0,7mm (0,027in)

2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque:
Spark plug:
18 Nm (1,8 m•kgf, 13,01 ft•lbf)

NOTE:

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.

4. Install the spark plug cap.

PERIODIC MAINTENANCE AND MINOR REPAIR

NOTE:

Make sure the spark plug wire is fastened in the clamp as shown.

5. Install the storage compartment by installing the bolts.
6. Close the seat.

EAUM1550

Engine oil

The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance and lubrication chart and when the service indicator light comes on.

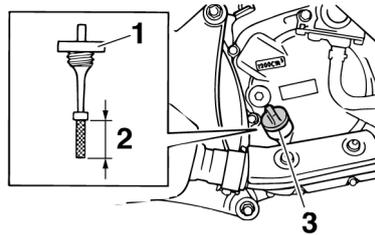
To check the engine oil level

1. Place the scooter on the centerstand.

NOTE:

Make sure that the scooter is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading.

2. Start the engine, warm it up for several minutes, and then turn it off.



1. Dipstick
2. Max-min marks
3. Oil filler cap

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.

NOTE:

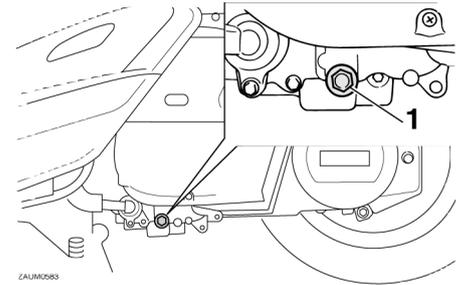
The engine oil should be between the minimum and maximum level marks.

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

5. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

To change the engine oil

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.



1. Oil drain bolt

3. Remove the engine oil filler cap and the engine oil drain bolt to drain the oil from the crankcase.
4. Check the washer for damage and replace it if necessary.
5. Install the washer and the engine oil drain bolt, and then tighten the drain bolt to the specified torque.

PERIODIC MAINTENANCE AND MINOR REPAIR

Tightening torque:

Engine oil drain bolt:
20 Nm (2,0 m•kgf, 14,46 ft•lbf)

NOTE:

Make sure that the washer is properly seated.

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

Recommended engine oil:

See page 8-1.

Oil change quantity:

1,2 L (0,26 US qt) (1,05 Imp.qt)

ECA11670

CAUTION

- Do not use oils with a diesel specification of “CD” or oils of a higher quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.
- Be sure no foreign material enters the crankcase.

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.

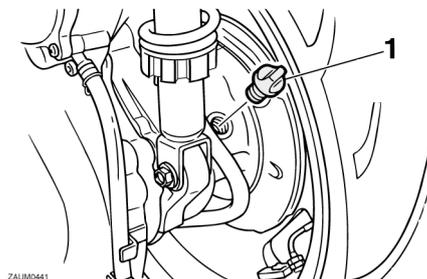
8. Reset the oil change indicator. (See page 3-6.)

EAU20060

Final transmission oil

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

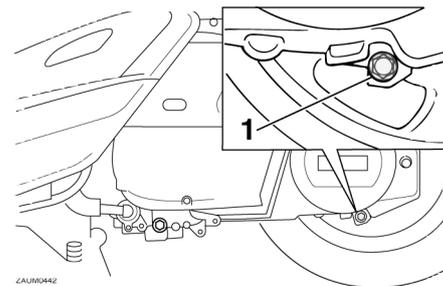
1. Start the engine, warm it up by riding the scooter for several minutes, and then stop the engine.
2. Place the scooter on the centerstand.
3. Place an oil pan under the final transmission case to collect the used oil.



ZAJM0441

1. Oil filler cap

4. Remove the oil filler cap and drain bolt to drain the oil from the final transmission case.



ZAJM0442

1. Oil drain bolt

5. Install the final transmission oil drain bolt, and then tighten it to the specified torque.

PERIODIC MAINTENANCE AND MINOR REPAIR

Tightening torque:

Final transmission oil drain bolt:
22 Nm (2,2 m•kgf, 15,91 ft•lbf)

6. Add the specified amount of the recommended final transmission oil, and then install and tighten the oil filler cap.

Recommended final transmission oil:

See page 8-1.

Oil quantity:

0,25 L (0,05 US qt) (0,21 Imp.qt)

EWA11310

⚠ WARNING

- Make sure that no foreign material enters the final transmission case.
- Make sure that no oil gets on the tire or wheel.

7. Check the final transmission case for oil leakage. If oil is leaking, check for the cause.

EAU20070

Coolant

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

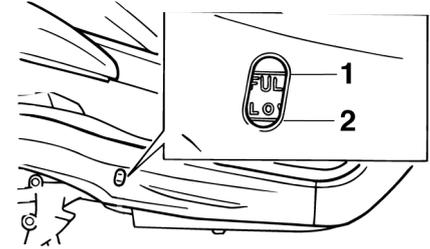
EAU51270

To check the coolant level

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

NOTE:

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

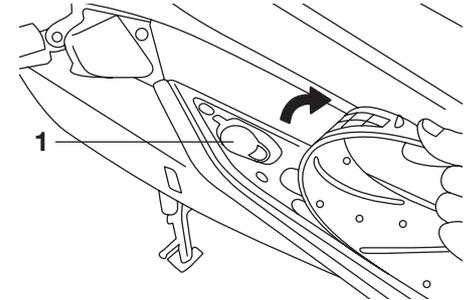


1. Maximum level
2. Minimum level

2. Check the coolant level through the check window.

NOTE:

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



1. Coolant reservoir cap

PERIODIC MAINTENANCE AND MINOR REPAIR

EAUS1330

3. If the coolant is at or below the minimum level mark, remove the right floorboard mat by pulling it up.
4. Open the reservoir cap, and then add coolant to the maximum level mark.

Coolant reservoir capacity:
0,46 L (0,07 US qt) (0,24 Imp.qt)

ECA10470

CAUTION

- If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine.
- If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the engine may not be sufficiently cooled and the cooling system will not be protected against frost and corrosion.

- If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced.

EWA10380

⚠ WARNING

Never attempt to remove the radiator cap when the engine is hot.

5. Close the reservoir cap.
6. Place the floorboard mat in the original position and push it downward to secure it.

EAU33030

EWA10380

Changing the coolant

⚠ WARNING

Never attempt to remove the radiator cap when the engine is hot.

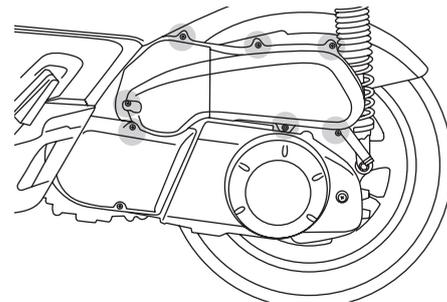
The coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer change the coolant.

Air filter and V-belt case air filter elements

The air filter should be replaced and the V-belt case air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Replace or clean the according filter element more frequently if you are riding in unusually wet or dusty areas.

Replacing air filter element

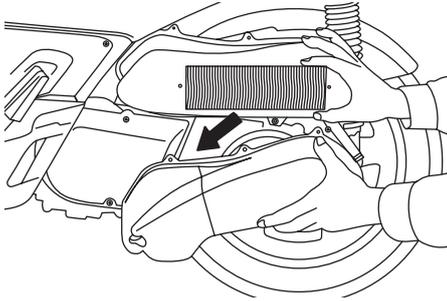
1. Place the scooter on the centerstand.



Screws

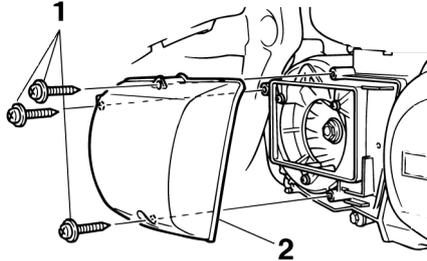
PERIODIC MAINTENANCE AND MINOR REPAIR

2. Remove the air filter case cover by removing the screws.



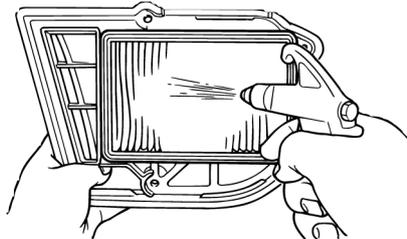
3. Pull the air filter element out.
4. Insert a new air filter element into the air filter case.
5. Install the air filter case cover by installing the screws.

Cleaning the V-belt case air filter element



1. Screw (x3)
2. V-Belt air filter case cover

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



2. Remove the air filter element, and then blow out the dirt with compressed air as shown.

3. Check the air filter element for damage and replace it if necessary.
4. Install the air filter element with the colored side facing outward.
5. Install the V-belt case air filter cover by installing the screws.

ECA10530

CAUTION

- Make sure that each filter element is properly seated in its case.
- The engine should never be operated without the filter elements installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.

EAU21300

Adjusting the carburetor

The carburetor is an important part of the engine and requires very sophisticated adjustment. Therefore, all carburetor adjustments should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.

EAUS1290

Adjusting the throttle cable free play



ZAMR0051

1. Throttle cable free play

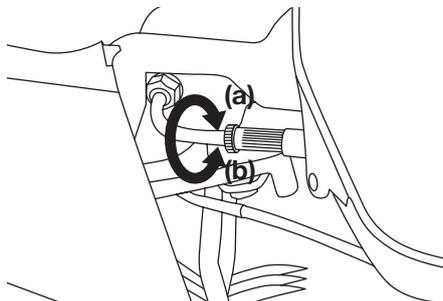
The throttle cable free play should measure 3 ~ 5 mm (0,11 ~ 0,19 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, adjust it as follows.

NOTE:

The engine idling speed must be correctly adjusted before checking and adjusting the throttle cable free play.

1. Remove cowling A (See page 6-5).

2. Loosen the locknut.



3. To increase the throttle cable free play, turn the adjusting nut in direction (a). To decrease the throttle cable free play, turn the adjusting nut in direction (b).

4. Tighten the locknut.
5. Install the cowling.

EAU21401

Valve clearance

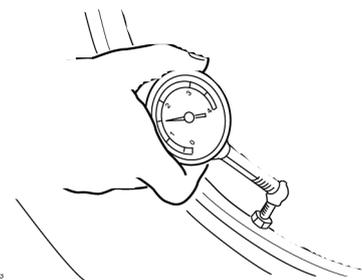
The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

EAU21870

Tires

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

Tire air pressure



ZAMR0055

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

PERIODIC MAINTENANCE AND MINOR REPAIR

EWA10500

⚠ WARNING

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

Tire air pressure (measured on cold tires):

Up to 90 kg (198 lb):

Front:

190kPa (27,02 psi) (1,9kgf/cm²)

Rear:

220kPa (31,29 psi)
(2,2kgf/cm²)

90kg (198 lb) to maximum:

Front:

210kPa (29,86 psi) (2,1 kgf/cm²)

Rear:

250kPa (35,55 psi) (2,5 kgf/cm²)

Maximum load*:

235 kg (518,17 lb)

* Total weight of rider, passenger, cargo and accessories.

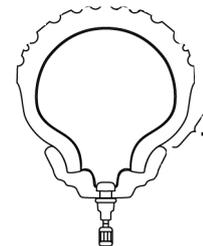
EWA10450

⚠ WARNING

Because loading has an enormous impact on the handling, braking, performance and safety characteristics of your vehicle, you should keep the following precautions in mind.

- **NEVER OVERLOAD THE VEHICLE!** Operation of an overloaded vehicle may result in tire damage, loss of control, or severe injury. Make sure that the total weight of rider, cargo, and accessories does not exceed the specified maximum load for the vehicle.
- **Do not carry along loosely packed items, which can shift during a ride.**
- **Securely pack the heaviest items close to the center of the vehicle and distribute the weight evenly on both sides.**
- **Adjust the suspension and tire air pressure with regard to the load.**

- **Check the tire condition and air pressure before each ride.**



ZALM0054

1. Tire tread depth

Tire inspection

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

Minimum tire tread depth (front and rear):

1.6 mm (0.06 in)

NOTE:

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

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU21960

EAU33451

Tire information

This motorcycle is equipped with tubeless tires.

Front tire:

Size:

120/70-15 56S

Manufacturer/model:

Michelin Gold Standard

Rear tire:

Size:

140/70-14 68S

Manufacturer/model:

Michelin Gold Standard

EWA10470

WARNING

- **Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the vehicle with excessively worn tires decreases riding stability and can lead to loss of control.**
- **The replacement of all wheel and brake related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.**

Cast wheels

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

- The wheel rims should be checked for cracks, bends or warpage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a shortened tire life.
- Ride at moderate speeds after changing a tire since the tire surface must first be “broken in” for it to develop its optimal characteristics.

Front and rear brake lever free play

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

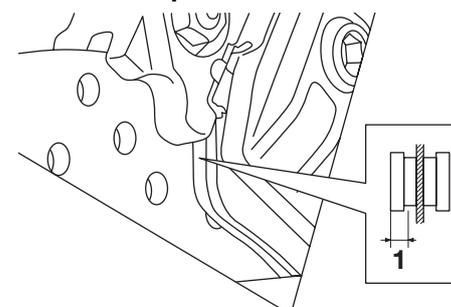
EAU22390

Checking the front and rear brake pads

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

EAU22400

Front brake pads



PERIODIC MAINTENANCE AND MINOR REPAIR

Check each front brake pad for damage and measure the lining thickness. If a brake pad is damaged or if the lining thickness is less than 4,0 mm (0,16 in), have a Yamaha dealer replace the brake pads as a set.

wear indicator almost touches the brake disc, have a Yamaha dealer replace the brake pads as a set.

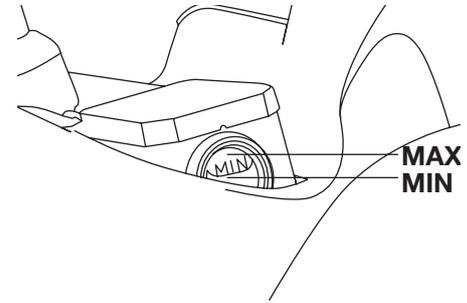
EAU22580

Checking the brake fluid level

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

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

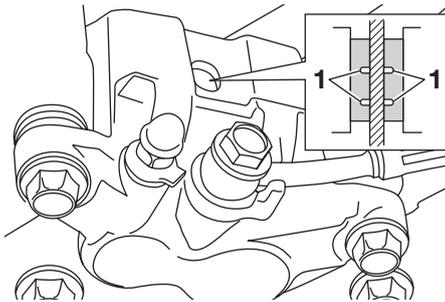
Observe these precautions:



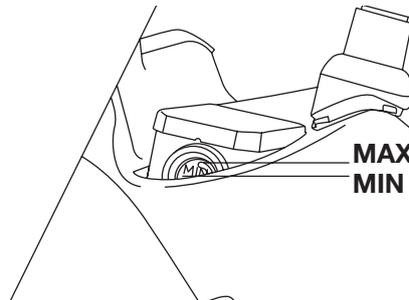
- When checking the fluid level, make sure that the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.

Rear brake pads

EAU22520



The rear brake is provided with a check plug, which, if it is removed, allows you to check the brake pad wear without disassembling the brake. To check the brake pad wear, check the position of the wear indicator while applying the brake. If a brake pad has worn to the point that the



Recommended brake fluid:
DOT 4

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

PERIODIC MAINTENANCE AND MINOR REPAIR

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

EAUM1360

Changing the brake fluid

Have a Yamaha dealer change the brake fluid at the intervals specified in the periodic maintenance and lubrication chart. In addition, have the brake hose replaced every four years or whenever it is damaged or leaking.

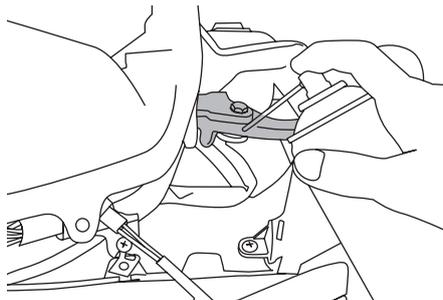
EAU23111

Checking and lubricating the throttle grip and cable

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

EAU23170

Lubricating the front and rear brake levers



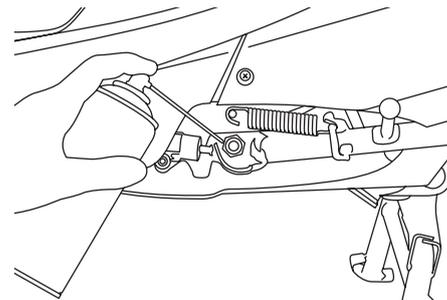
The pivoting points of the front and rear brake levers must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:

Lithium-soap-based grease (all-purpose grease)

EAU23211

Checking and lubricating the centerstand and sidestand



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.

PERIODIC MAINTENANCE AND MINOR REPAIR

⚠ WARNING

EWA10740

If the centerstand or sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it.

Recommended lubricant:

Lithium-soap-based grease (all-purpose grease)

EAU23271

6 **Checking the front fork**

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

To check the condition

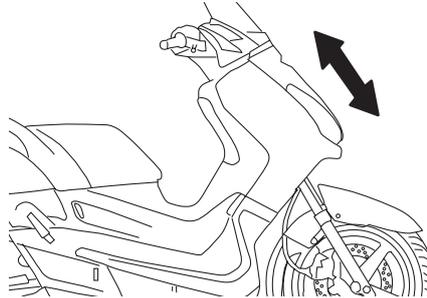
EWA10750

⚠ WARNING

Securely support the motorcycle so that there is no danger of it falling over.

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

To check the operation



1. Place the motorcycle on a level surface and hold it in an upright position.
2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

CAUTION

ECA10590

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

EAU23280

Checking the steering

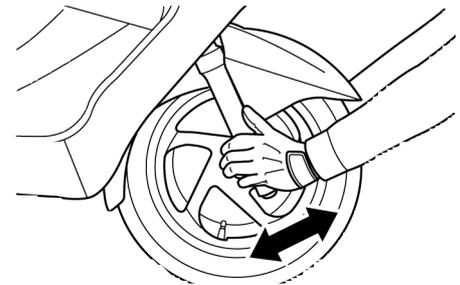
Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

1. Place a stand under the engine to raise the front wheel off the ground.

EWA10750

⚠ WARNING

Securely support the motorcycle so that there is no danger of it falling over.



2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free

PERIODIC MAINTENANCE AND MINOR REPAIR

play can be felt, have a Yamaha dealer check or repair the steering.

EAU23290

Checking the wheel bearings

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

EAU23380

Battery

The battery is located behind panel A. (See page 6-5.)

This model is equipped with a sealed-type (MF) battery, which does not require any maintenance. There is no need to check the electrolyte or to add distilled water.

ECA10620

CAUTION

Never attempt to remove the battery cell seals, as this would permanently damage the battery.

EWA10760

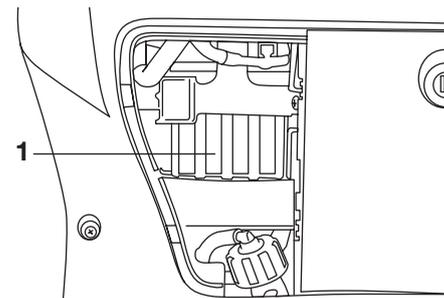
WARNING

- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
 - **EXTERNAL:** Flush with plenty of water.
 - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
 - **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- **Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.**
- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**

To charge the battery

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

To store the battery



1. 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.
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.

PERIODIC MAINTENANCE AND MINOR REPAIR

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

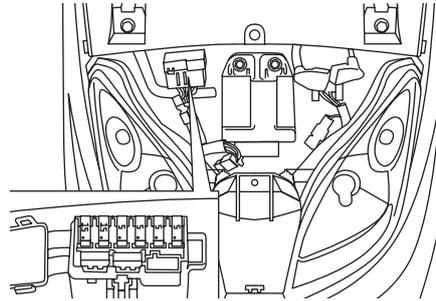
ECA10630

CAUTION

- Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.
- To charge a sealed-type (MF) battery, a special (constant-voltage) battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a sealed-type (MF) battery charger, have a Yamaha dealer charge your battery.

Replacing the fuses

EAU23610



The main fuse and the fuse box, which contains the fuses for the individual circuits, are located behind cowling B. (See page 6-5.)

If a fuse is blown, replace it as follows.

1. Turn the key to "OFF" and turn off the electrical circuit in question.
2. Remove the blown fuse, and then install a new fuse of the specified amperage.

Specified fuses:

Main fuse	30.0 A
Headlight fuse	15.0 A
Signaling system fuse	15.0 A
Ignition fuse	5.0 A
Radiator fan fuse	10 A
ECU fuse	5.0 A
Backup fuse	5.0 A
Reserve fuse	5.0 A
	10 A
	15.0 A
	30.0 A

ECA10640

CAUTION

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.

PERIODIC MAINTENANCE AND MINOR REPAIR

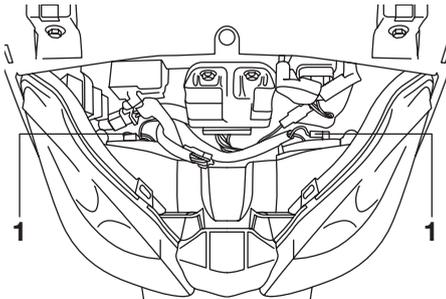
3. Turn the key to "ON" and turn on the electrical circuit in question to check if the device operates.
4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

EAU23910

Replacing a headlight bulb

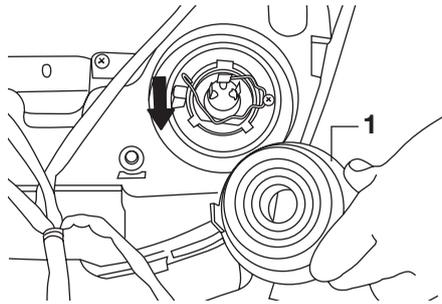
This model is equipped with quartz bulb headlights. If a headlight bulb burns out, replace it as follows.

1. Remove cowling B. (See page 6-5.)



1. Headlight coupler

2. Disconnect the headlight coupler, and then remove the headlight bulb cover.
3. Remove the headlight bulb holder according to the following illustration, and then remove the defective bulb.



1. Headlight bulb cover

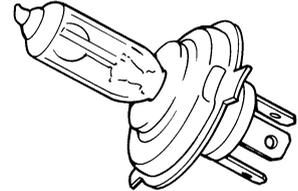
NOTE:

The removal procedure depends on the type of bulb holder installed on your vehicle.

⚠ WARNING

Headlight bulbs get very hot. Therefore, keep flammable products away from a lit headlight bulb, and do not touch the bulb until it has cooled down.

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



CAUTION

Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off

EWA10790

ECA10660

PERIODIC MAINTENANCE AND MINOR REPAIR

any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

5. Install the bulb cover, and then connect the coupler.
6. Install the cowling.
7. Have a Yamaha dealer adjust the headlight beam if necessary.

EAUT1260

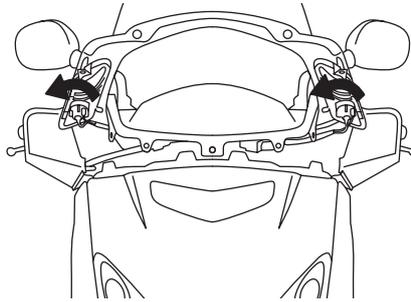
Replacing a front turn signal light bulb

ECA10670

CAUTION

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

1. Place the scooter on the centerstand.
2. Remove cowling A. (See page 6-5.)
3. Remove the socket (together with the bulb) by turning it counterclockwise.

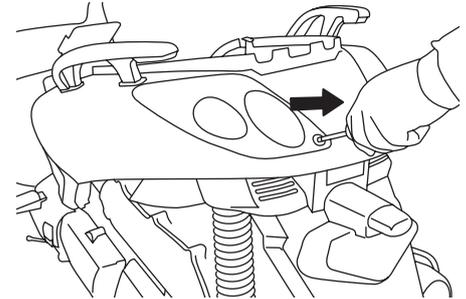


4. Remove the defective bulb by pushing it in and turning it counterclockwise.
5. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
6. Install the socket (together with the bulb) by turning it clockwise.
7. Install the cowling.

EAUS1250

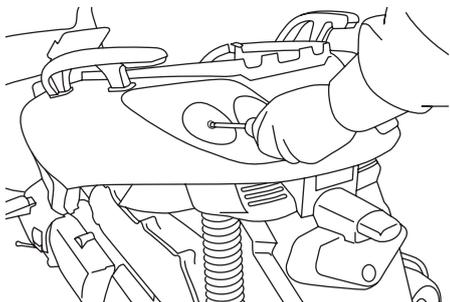
Replacing the tail/brake light bulb or a rear turn signal light bulb

Tail/brake light bulb



1. Remove the tail/brake light bulb lens by removing the screws.
2. Remove the defective bulb by pushing it in and turning it counterclockwise.
3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screws.

PERIODIC MAINTENANCE AND MINOR REPAIR



Rear turn signal light bulb

1. Remove the tail/brake light lens by removing the screw.
2. Remove the turn signal light bulb lens by removing the screw.
3. Remove the defective bulb by pushing it in and turning it counterclockwise.
4. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
5. Install the turn signal light bulb lens by installing the screw.
6. Install the tail/brake light bulb lens by installing the screw.

ECA10680

CAUTION

Do not overtighten the screws, otherwise the lens may break.

ECA11190

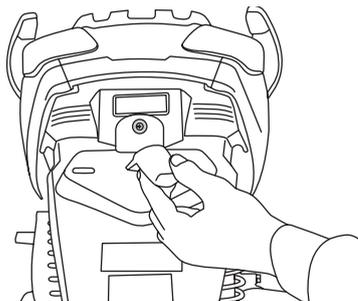
CAUTION

Do not overtighten the screw, otherwise the lens may break.

EAUS1150

Replacing the license plate light bulb

1. Remove the lens by removing the screw.



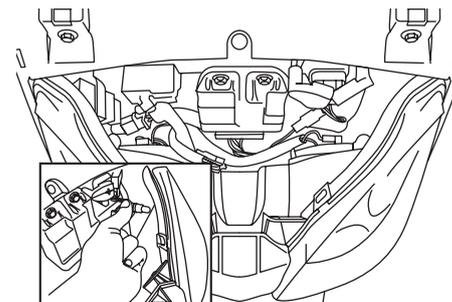
2. Remove the defective bulb by pulling it out.
3. Insert a new bulb into the socket.
4. Install the lens by installing the screw.

EAUS1260

Replacing the auxiliary light bulb

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

1. Remove cowling B . (See page 6-5.).



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

PERIODIC MAINTENANCE AND MINOR REPAIR

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

EAU25880

Troubleshooting

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

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

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

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU25921

Troubleshooting charts

Starting problems or poor engine performance

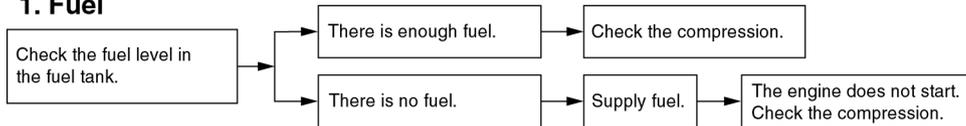
EWA10840



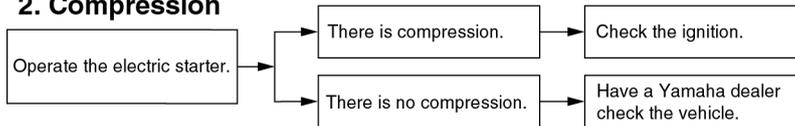
WARNING

Keep away open flames and do not smoke while checking or working on the fuel system.

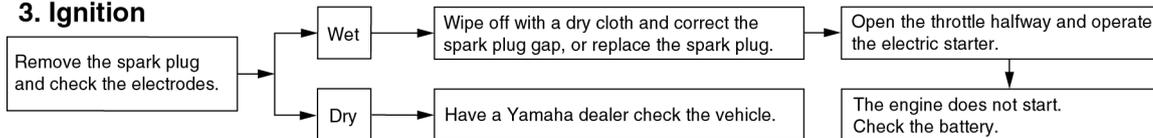
1. Fuel



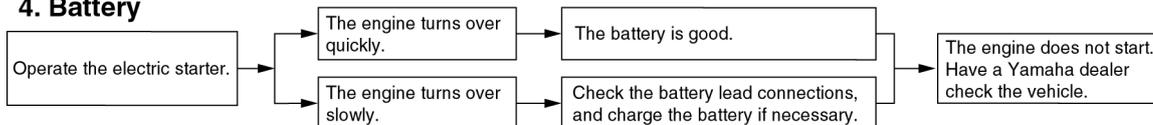
2. Compression



3. Ignition



4. Battery



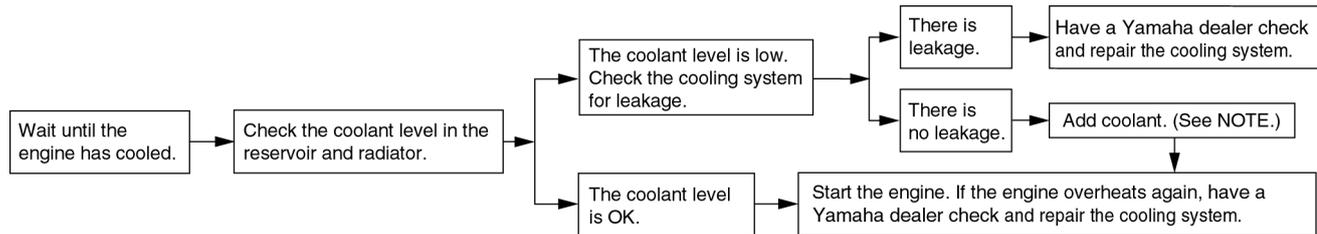
PERIODIC MAINTENANCE AND MINOR REPAIR

Engine overheating

EWA10400

⚠ WARNING

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



NOTE:

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

EAU26090

Care

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

Before cleaning

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

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

Cleaning

ECA10780

CAUTION

- **Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.**
- **Improper cleaning can damage windshields, cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.**
- **Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or**

thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.

- **Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and swingarm bearings, fork and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.**
- **For scooters equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield. Test the product on a small hidden part of the windshield to make sure that it does not leave any marks. If the windshield is scratched, use a quality plastic polishing compound after washing.**

SCOOTER CARE AND STORAGE

After normal use

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

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

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

NOTE:

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

1. Clean the scooter with cold water and a mild detergent after the engine has cooled down.

ECA10790

CAUTION

Do not use warm water since it increases the corrosive action of the salt.

2. Apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.

After cleaning

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

6. Wax all painted surfaces.

7. Let the scooter dry completely before storing or covering it.

EWA10940

WARNING

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

ECA10800

CAUTION

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

SCOOTER CARE AND STORAGE

EWA10950

NOTE: _____
Consult a Yamaha dealer for advice on what products to use.

EAU26300

Storage Short-term

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

ECA10820

CAUTION

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

Long-term

Before storing your scooter for several months:

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

2. Drain the carburetor float chamber by loosening the drain bolt; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
3. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
4. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - b. Pour a teaspoonful of engine oil into the spark plug bore.
 - c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
 - d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)
 - e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.

WARNING

To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.

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

SCOOTER CARE AND STORAGE

information on storing the battery, see page 6-18.

NOTE: _____
Make any necessary repairs before
storing the scooter.

Dimensions

Overall length
2210 mm
Overall width
790 mm
Overall height
1380 mm
Seat height
775 mm
Wheelbase
1545 mm
Ground clearance
113 mm

Weight

Dry (without oil and fuel)
164.0 kg
With oil and fuel
174.0 kg
Maximum load
235 kg

Engine

Engine type
Liquid cooled 4-stroke, SOHC
Cylinder arrangement
Forward-inclined single cylinder
Displacement
249.7 cm³
Bore x stroke
69.0 x 66.8 mm
Compression ratio
10.00 :1
Starting system
Electric starter

Lubrication system

Wet sump

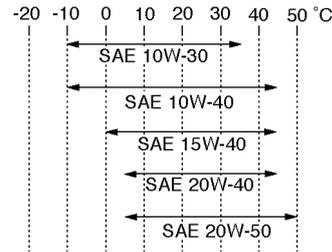
Oil type or grade

Engine oil

SAE10W30SE

Recommended engine oil grade

API service SE, SF, SG type or higher



Engine oil quantity

Quantity

1.4 L

Periodic oil change

1.20 L

Final gear oil

Quantity

0.25 L

Cooling system

Radiator capacity

0.34 L

Coolant reservoir capacity (up to the maximum level mark)

0.46 L

Air filter

Air filter element

Oil-coated paper element

Recommended fuel

Recommended fuel

Unleaded fuel

Fuel tank capacity

12.0 L

Fuel reserve amount

2.0 L

Carburetor

Type x quantity

1C0 x 1

Manufacturer

KEIHIN

Spark plug (s)

Manufacturer/model

NGK DR8EA

Spark plug gap

0.6-0.7 mm

Clutch type

Transmission

Primary reduction system

Helical gear

Primary reduction ratio

40 x 15 (2.666)

Secondary reduction system

Helical gear

Secondary reduction ratio

40 x 14 (2.857)

Transmission type

V-belt automatic

SPECIFICATIONS

Operation
Centrifugal automatic type

Chassis

Frame type
Steel tube underbone
Caster angle
28.00 degree
Trail
100.0 mm

Front tire

Type
Tubeless
Size
120/70-15 56S
Wear limit (front)
1.6 mm
Manufacturer/model
Michelin/Gold Standard

Rear tire

Type
Tubeless
Size
140/70-14 68S
Wear limit (rear)
1.6 mm
Manufacturer/model
Michelin/Gold Standard
Tire air pressure (measured on cold tires)

Loading condition
0-90 kg
Front
190kPa (27,02 psi) (1,9kgf/cm²)

Rear
220kPa (31,29 psi) (2,2kgf/cm²)
Loading condition
90-max.
Front
210kPa (29,86 psi) (2,1 kgf/cm²)
Rear
250kPa (35,55 psi) (2,5 kgf/cm²)

Front wheel

Wheel type
Cast wheel
Rim size
15xMT3.50
Rim material
Aluminum

Rear wheel

Wheel type
Cast wheel
Rim size
14xMT3.75
Rim material
Aluminum

Front disc brake

Disc brake type
Single
Recommended fluid
DOT 4

Rear disc brake

Disc brake type
Single
Recommended fluid
DOT 4

Front suspension

Front fork travel
110.0 mm

Rear suspension

Rear shock absorber assembly travel
95.0 mm

Electrical

System voltage
12 V
Battery
Type/model
YTX9-BS
Voltage
12.0 V
Capacity
12.0 V8.0 Ah

Bulb type

Bulb voltage, wattage x quantity

Headlight
12 V35/35 W
Auxiliary light
12 V5.0 W x 2 pcs
Tail/brake light
12 V21/5 W
Front flasher light
12 V10 W/2 pcs
Rear flasher light
12 V10.0 W x 2 pcs
License plate light
12 V5.0 W x 1 pcs

Fuses

Main fuse
30.0 A

Headlight fuse
15.0 A

Signaling system fuse
15.0 A

Ignition fuse
5.0 A

Radiator fan fuse
10A

ECU fuse
5.0 A

Backup fuse
5.0 A

Reserve fuse
5.0 A

Reserve fuse
10 A

Reserve fuse
15.0 A

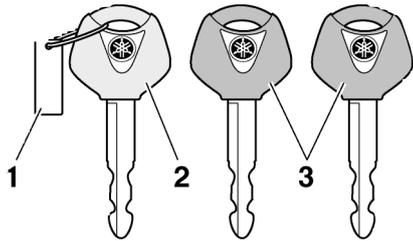
Reserve fuse
15.0 A

Reserve fuse
30.0 A

CONSUMER INFORMATION

EAU26381

Key identification number

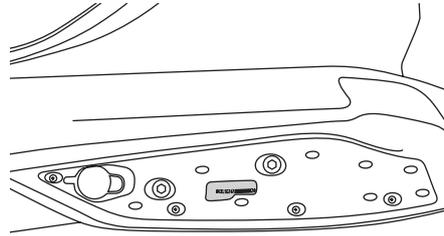


1. Key tag
2. Master key
3. Keys

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

EAU26410

Vehicle identification number



The vehicle identification number is stamped into the frame.

NOTE: _____

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

EAU26470

Model label

The model label is affixed to the frame under the rider seat. (See page 3-10.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

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